



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 (3) FLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (4) 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				

CITY / CO.	Lillington / Harnett
ADDRESS	726 Beacon Hill Road
MODEL	Roof
DATE REV.	9/4/25
DRAWN BY	Johnnie Baggett
SALES REP.	House Account

BUILDER	New Home Inc.
JOB NAME	Lot 50 Duncnan's Creek
PLAN	The Garner - English Country
SEAL DATE	Seal Date
QUOTE #	B0325-1179
JOB #	250919 - 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

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

= 2635.79 sq.ft.	Roof Area
= 43.27 ft.	Ridge Line
= 107.05 ft.	Hip Line
= 0 ft.	Horiz. OH
= 0 ft.	Raked OH
= 91 sheets	Decking

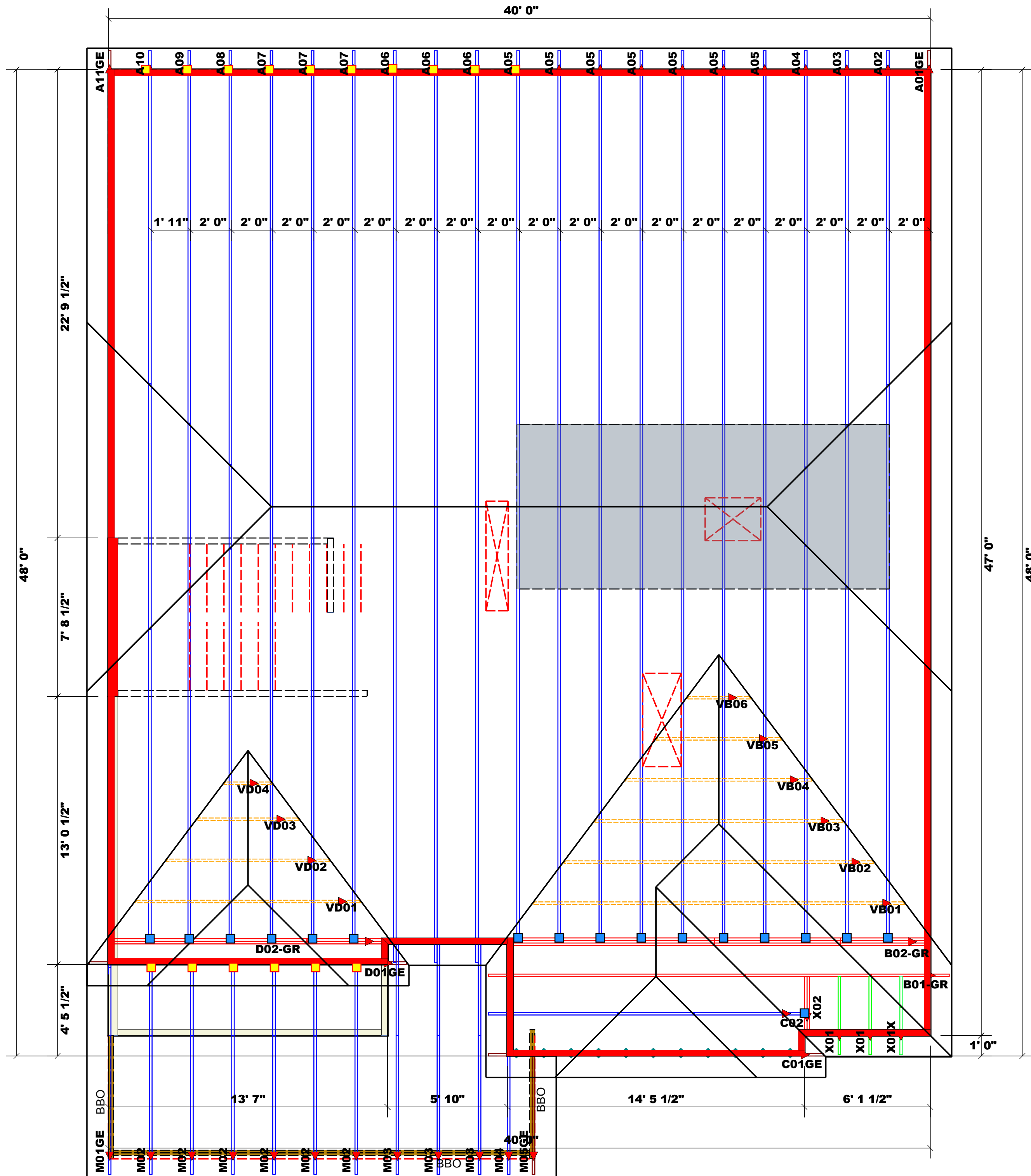
All Walls Shown Are Considered Load Bearing

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

WALL SCHEDULE

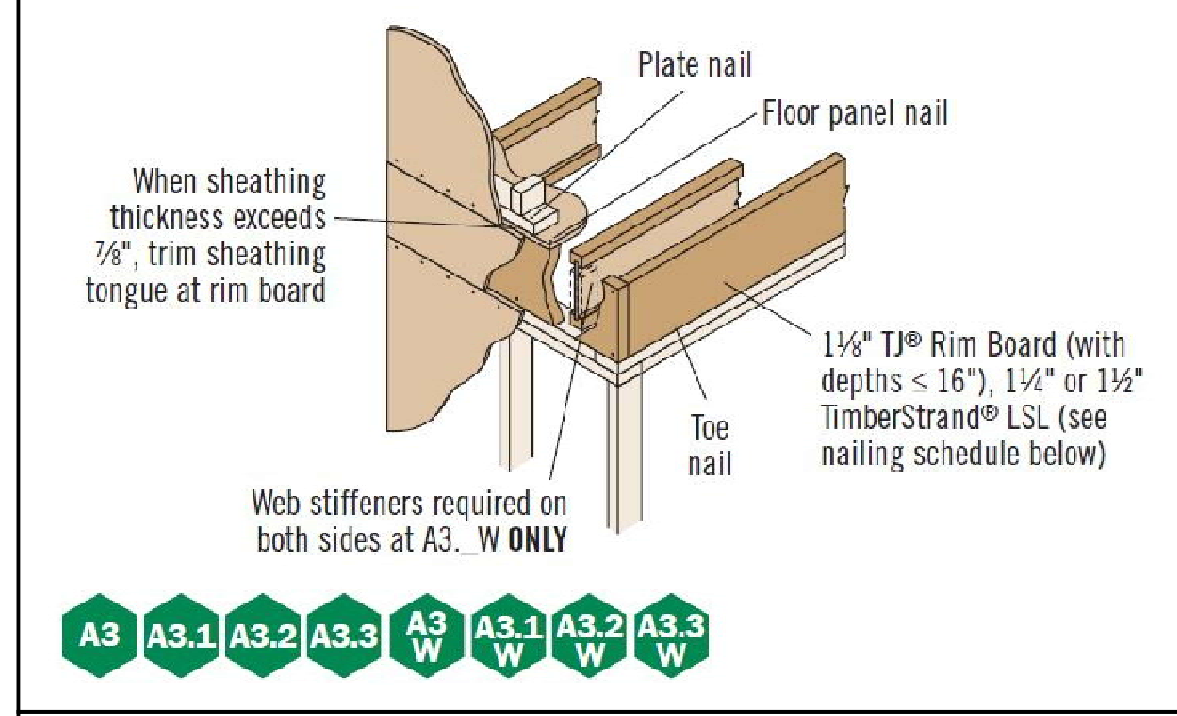
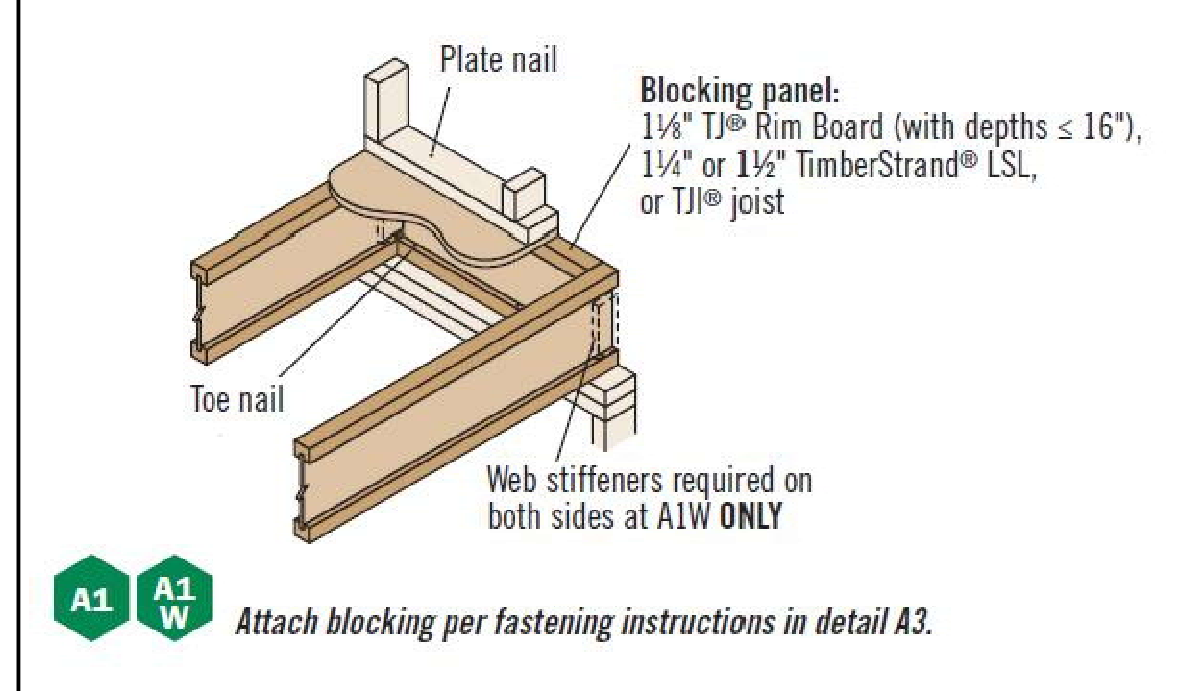
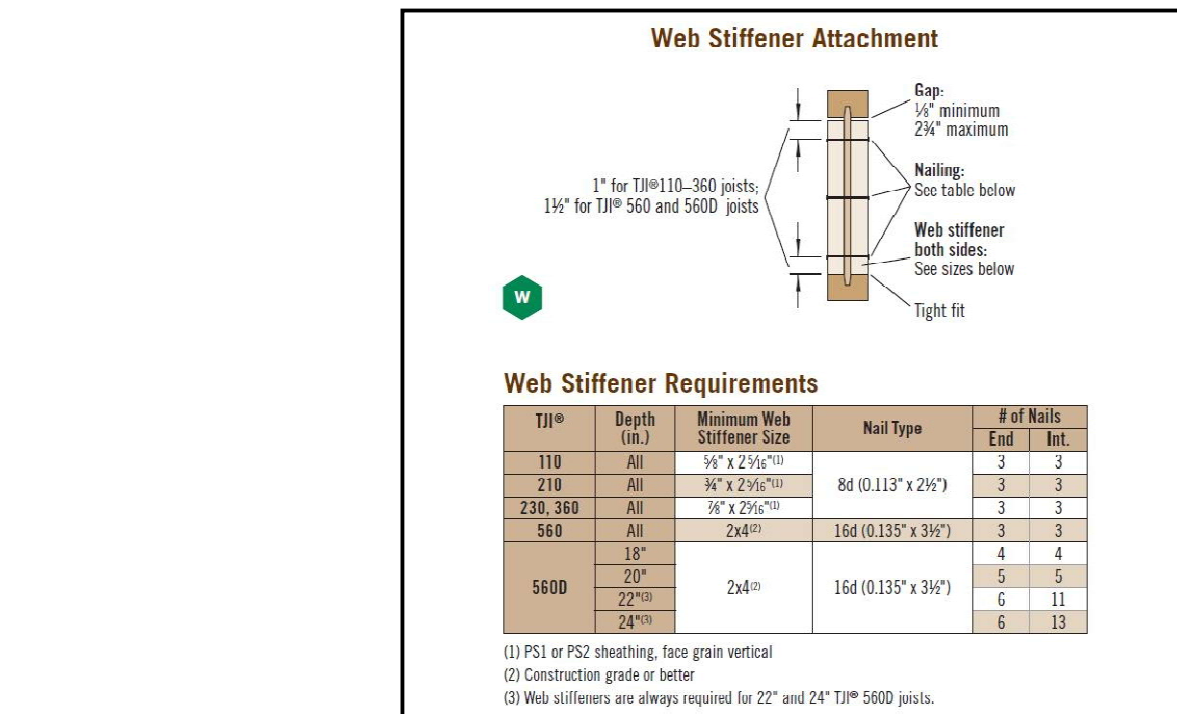
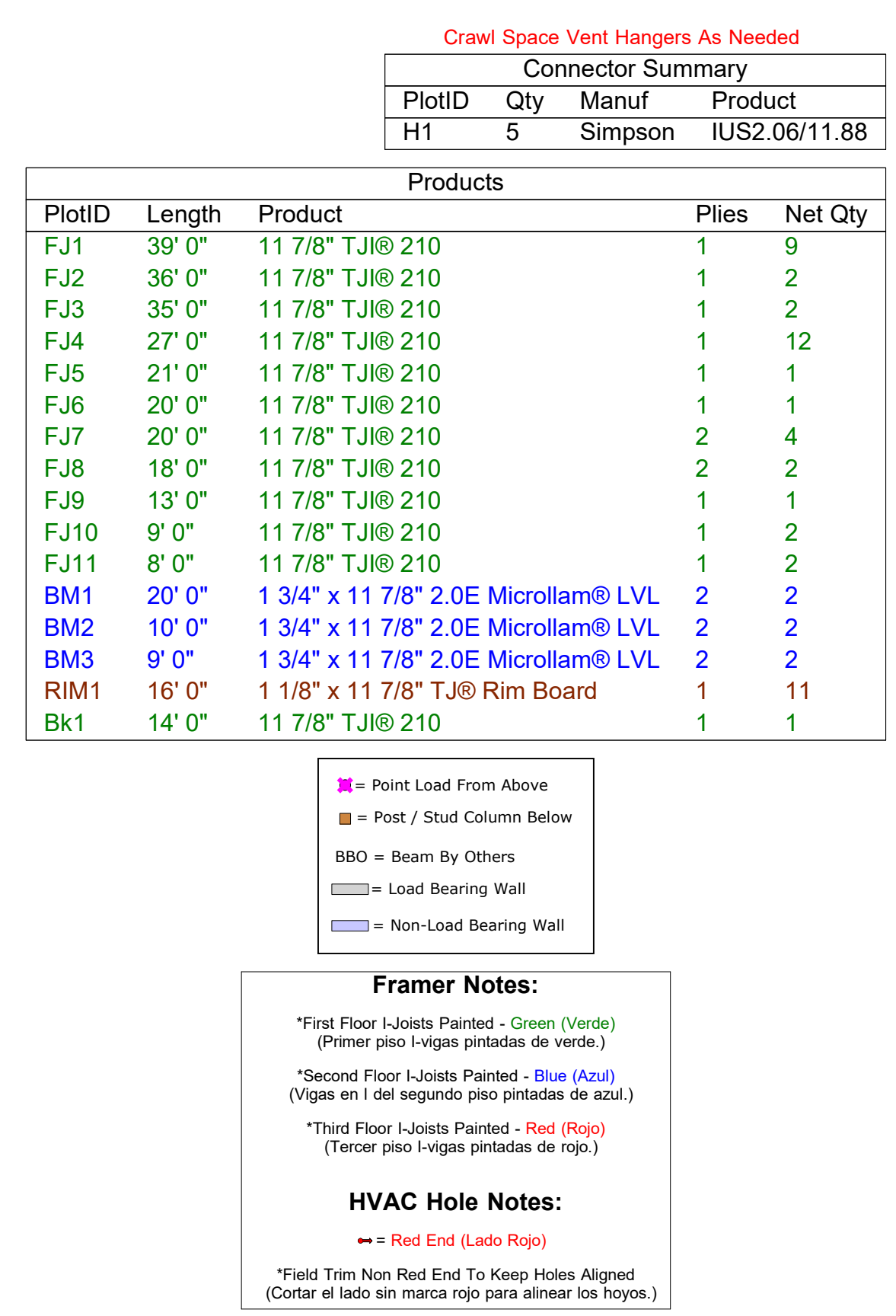
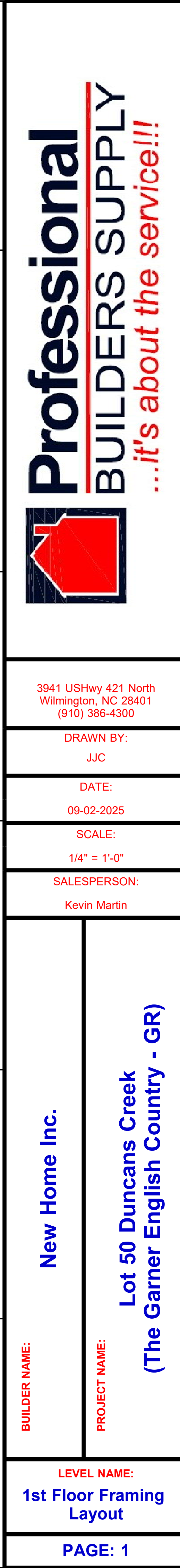
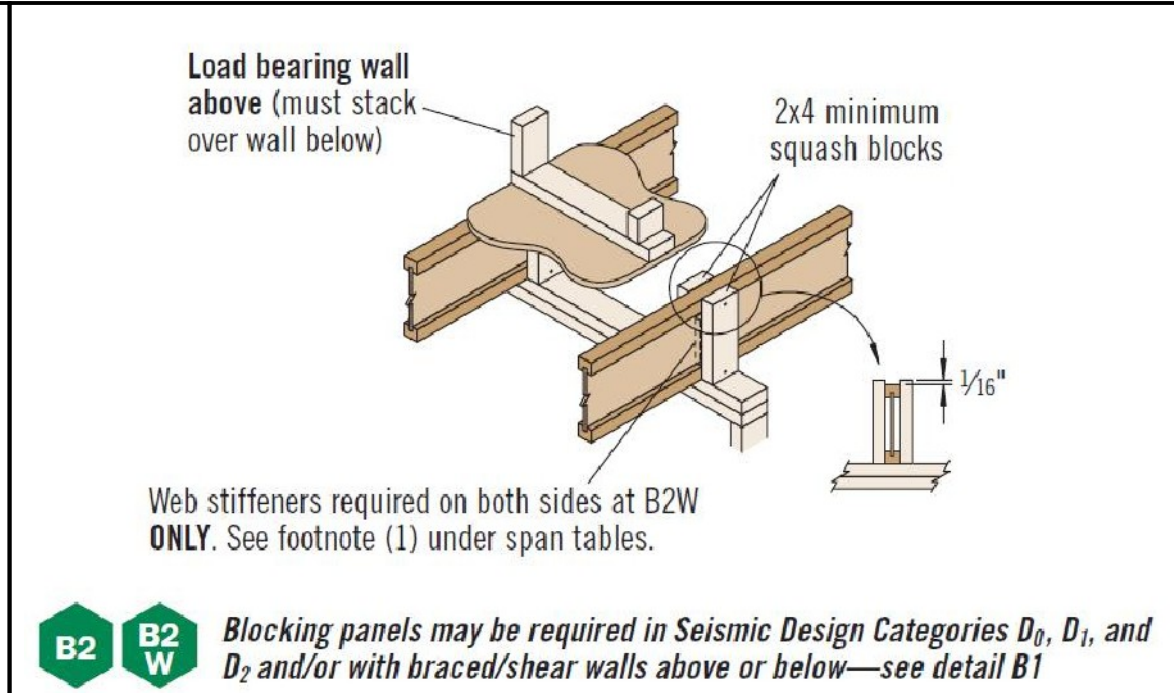
1st Floor Walls	
2nd Floor Walls	
Non-Bearing Walls	
Garage Walls Dropped	

Nail Information		Connector Information				
Truss	Header	Supported Member	Qty	Manuf	Product	Sym
16d/3-1/2"	16d/3-1/2"	NA	17	USP	HUS26	
10d/3"	10d/3"	NA	16	USP	JUS24	



Truss Placement Plan
SCALE: NTS

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



Rim Board Installation		
Specifications	A3, Conventional Construction, Code Minimum	A3.1, A3.2, A3.3, A3.4 Designed Solution
Rim Board Thickness	1¼" TJ® Rim Board, or 1¼" or 1½" TimberStrand® LSL	
Plate Nail: (0.131" x 3")	12" o.c. ⁽¹⁾	
Floor Panel Nail: 6d (0.131" x 2½")	6" o.c.	
Toe Nail: (0.131" x 3")	6" o.c.	
Wall Sheathing	Per code	

See Weyerhaeuser's
*Rim Board
Specifier's Guide*
(Reorder #TJ-8000)



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

CITY / CO.	Lillington / Harnett
ADDRESS	726 Beacon Hill Road
MODEL	Floor
DATE REV.	9/4/25
DRAWN BY	Johnnie Baggett
SALES REP.	House Account

BUILDER	New Home Inc.
JOB NAME	Lot 50 Duncan's Creek
PLAN	The Garner - English Country
SEAL DATE	Seal Date
QUOTE #	B0325-1183
JOB #	250919 - B

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 U.N.O.

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

All Walls Shown Are Considered Load Bearing

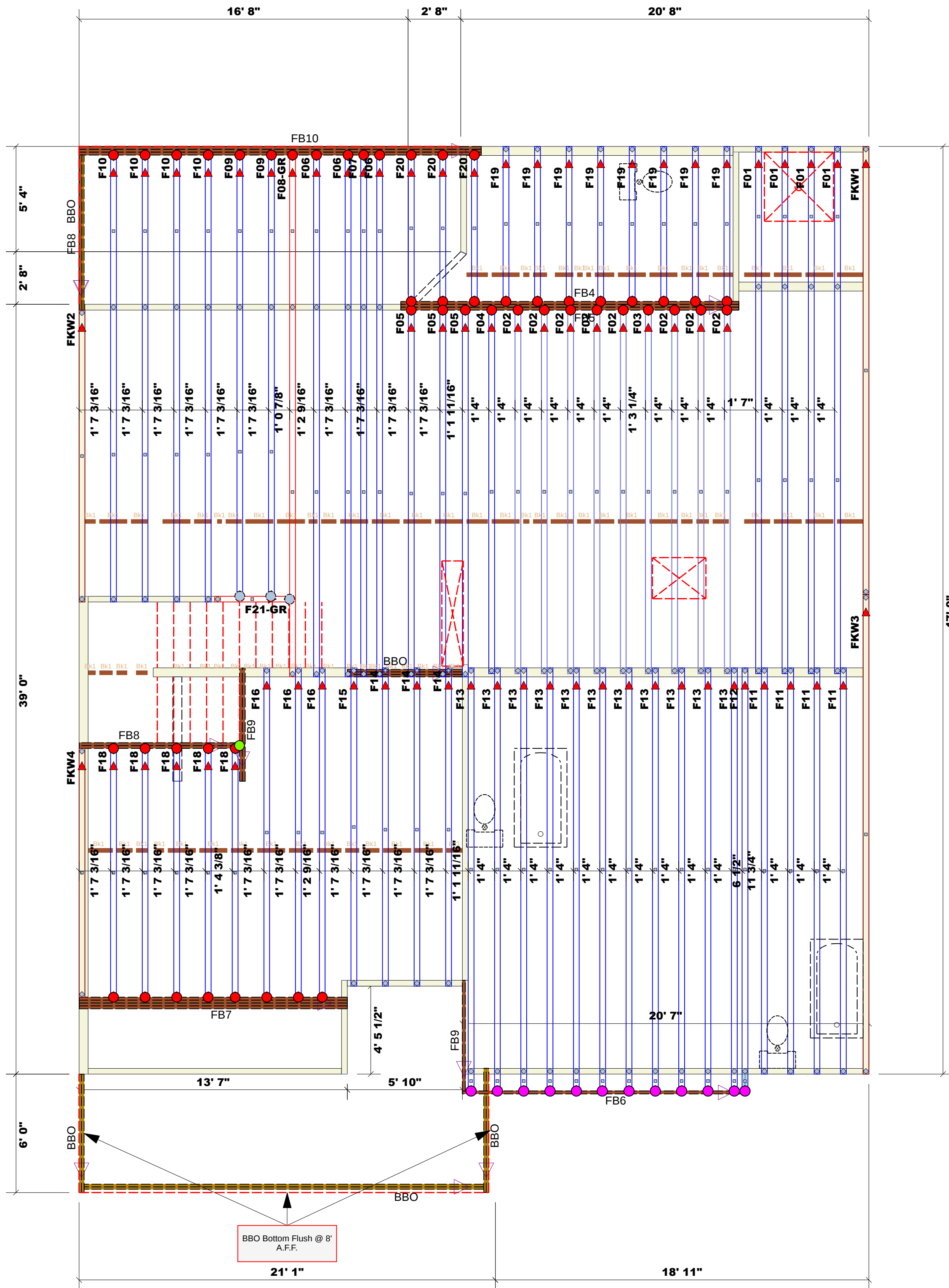
= Indicates Left End of Truss ▲
(Reference Engineered Truss Drawing)
Do Not Erect Trusses Backwards

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	51	USP	JUS414	
16d/3-1/2"	16d/3-1/2"	NA	12	USP	IHFL3514	
16d/3-1/2"	16d/3-1/2"	NA	1	USP	HD414	
10d/3"	10d/3"	Varies	3	USP	MSH422	

Products					
Fab Type	Net Qty	Plies	Product	Length	PlotID
FF	1	1	1-3/4"x 14" LVL Kerto-S	17' 1 9/16"	FB4
FF	2	2	1-3/4"x 14" LVL Kerto-S	17' 1 9/16"	FB5
FF	1	1	1-3/4"x 14" LVL Kerto-S	14' 5 1/2"	FB6
FF	4	4	1-3/4"x 14" LVL Kerto-S	13' 7"	FB7
FF	2	2	1-3/4"x 14" LVL Kerto-S	8' 1 1/2"	FB8
FF	1	1	1-3/4"x 14" LVL Kerto-S	7' 10 1/4"	FB8
FF	2	2	1-3/4"x 14" LVL Kerto-S	5' 9"	FB9
FF	1	1	1-3/4"x 14" LVL Kerto-S	5' 7 1/4"	FB9
FF	3	3	1-3/4"x 23-7/8" LVL Kerto-S	20' 4 1/2"	FB10



Truss Placement Plan
SCALE: NTS

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

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: 250919-A
Lot 50 Duncan's Creek

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

Pages or sheets covered by this seal: I76118468 thru I76118504

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

North Carolina COA: C-0844



September 5, 2025

Gilbert, Eric

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

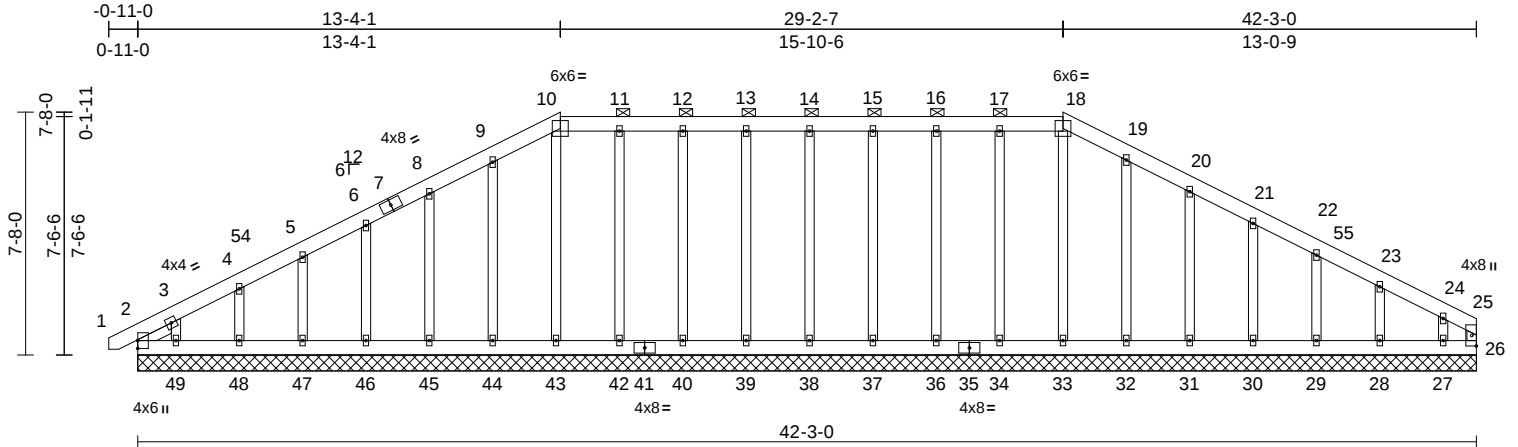
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	I76118468
250919-A	A01GE	Hip Supported Gable	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:20

Page: 1

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Scale = 1:72.7

Plate Offsets (X, Y): [10:Edge,0-0-0], [18:Edge,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	26	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							
Weight: 357 lb FT = 25%											

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -- 1-2-6

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 10-18.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=42-3-0, 26=42-3-0, 27=42-3-0, 28=42-3-0, 29=42-3-0, 30=42-3-0, 31=42-3-0, 32=42-3-0, 33=42-3-0, 34=42-3-0, 36=42-3-0, 37=42-3-0, 38=42-3-0, 39=42-3-0, 40=42-3-0, 42=42-3-0, 43=42-3-0, 44=42-3-0, 45=42-3-0, 46=42-3-0, 47=42-3-0, 48=42-3-0, 49=42-3-0
Max Horiz 2=95 (LC 9)
Max Uplift 2=-34 (LC 8), 26=-9 (LC 11), 27=-93 (LC 13), 28=-31 (LC 13), 29=-34 (LC 13), 30=-33 (LC 13), 31=-37 (LC 13), 32=-22 (LC 13), 34=-16 (LC 9), 36=-19 (LC 8), 37=-17 (LC 8), 38=-17 (LC 9), 39=-17 (LC 9), 40=-20 (LC 8), 42=-14 (LC 9), 44=-29 (LC 12), 45=-35 (LC 12), 46=-33 (LC 12), 47=-34 (LC 12), 48=-33 (LC 12), 49=-81 (LC 12)

FORCES

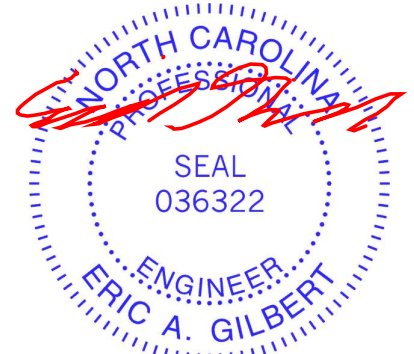
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/20, 2-3=-96/48, 3-4=-94/67, 4-5=-73/63, 5-6=-65/98, 6-8=-57/155, 8-9=-76/215, 9-10=-95/265, 10-11=-88/262, 11-12=-87/261, 12-13=-87/261, 13-14=-87/261, 14-15=-87/261, 15-16=-87/261, 16-17=-87/261, 17-18=-88/262, 18-19=-95/266, 19-20=-79/219, 20-21=-58/159, 21-22=-41/102, 22-23=-42/38, 23-24=-58/23, 24-25=-143/40, 25-26=-88/17
BOT CHORD 2-49=-28/116, 48-49=-28/116, 47-48=-28/116, 46-47=-28/116, 45-46=-28/116, 44-45=-28/116, 43-44=-28/116, 42-43=-27/116, 40-42=-27/116, 39-40=-27/116, 38-39=-27/116, 37-38=-27/116, 36-37=-27/116, 34-36=-27/116, 33-34=-27/116, 32-33=-27/116, 31-32=-27/116, 30-31=-27/116, 29-30=-27/116, 28-29=-27/116, 27-28=-27/116, 26-27=-27/116

WEBS

18-33=-110/0, 17-34=-123/71, 16-36=-121/85, 15-37=-120/79, 14-38=-120/79, 13-39=-120/79, 12-40=-122/85, 11-42=-118/66, 10-43=-111/12, 9-44=-127/91, 8-45=-119/109, 6-46=-120/105, 5-47=-120/104, 4-48=-124/149, 3-49=-84/165, 19-32=-122/86, 20-31=-120/110, 21-30=-120/105, 22-29=-119/119, 23-28=-124/167, 24-27=-94/179

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 Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 13-4-1, Corner(3R) 13-4-1 to 17-8-14, Exterior(2N) 17-8-14 to 29-2-7, Corner(3R) 29-2-7 to 33-7-4, Exterior (2N) 33-7-4 to 42-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



September 5, 2025

Continued on page 2

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

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 50 Duncan's Creek
250919-A	A01GE	Hip Supported Gable	1	1	I76118468
					Job Reference (optional)

- 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 26, 34 lb uplift at joint 2, 16 lb uplift at joint 34, 19 lb uplift at joint 36, 17 lb uplift at joint 37, 17 lb uplift at joint 38, 17 lb uplift at joint 39, 20 lb uplift at joint 40, 14 lb uplift at joint 42, 29 lb uplift at joint 44, 35 lb uplift at joint 45, 33 lb uplift at joint 46, 34 lb uplift at joint 47, 33 lb uplift at joint 48, 81 lb uplift at joint 49, 22 lb uplift at joint 32, 37 lb uplift at joint 31, 33 lb uplift at joint 30, 34 lb uplift at joint 29, 31 lb uplift at joint 28, 93 lb uplift at joint 27 and 34 lb uplift at joint 2.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 50.
- 12) 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.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

 **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)



818 Soundside Road
Edenton, NC 27932

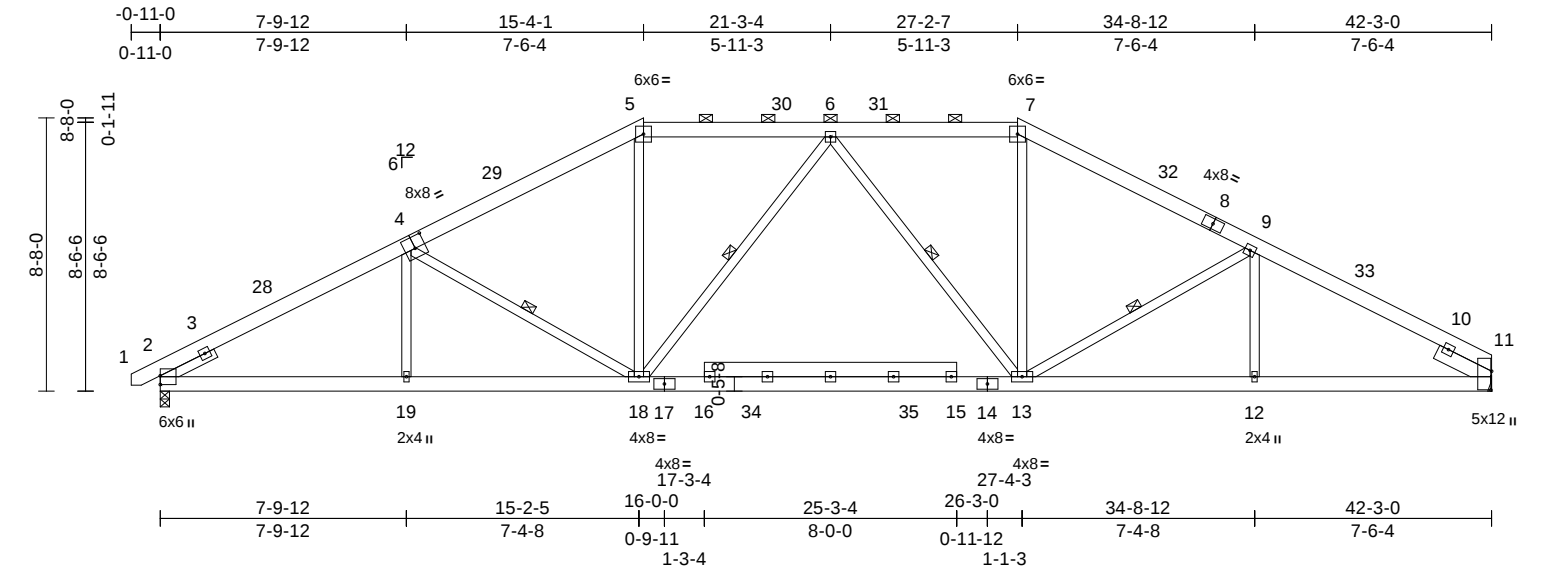
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-A	A02	Hip	1	1	176118469
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:21

Page: 1

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Scale = 1:73.1

Plate Offsets (X, Y): [4:0-4-0,0-4-8], [11:0-7-2,0-0-5]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.11	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.30	13-18	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.10	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.08	12-13	>999	240	Weight: 323 lb	FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 1-11-0, Right 2x6 SP No.2 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-18, 6-18, 6-13, 9-13

REACTIONS

(size)	2=0-3-8, 11= Mechanical
Max Horiz	2=107 (LC 9)
Max Grav	2=1835 (LC 1), 11=1790 (LC 1)

FORCES

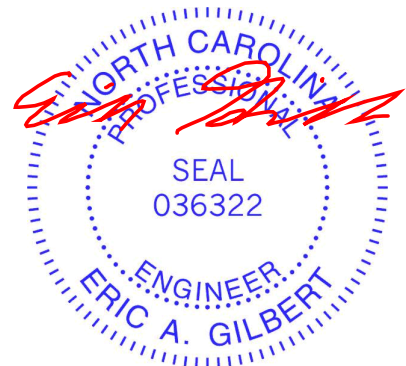
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/20, 2-5=-3018/441, 5-6=-2273/418, 6-7=-2259/415, 7-9=-2597/395, 9-11=-2923/438
BOT CHORD	2-19=-321/2598, 18-19=-324/2597, 13-18=-183/2398, 12-13=-294/2502, 11-12=-294/2502
WEBS	4-19=0/185, 4-18=-395/231, 5-18=0/717, 6-18=-366/146, 6-13=-387/143, 7-13=0/701, 9-13=-305/216, 9-12=-12/151

- 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 15-4-1, Exterior(2R) 15-4-1 to 19-8-14, Interior (1) 19-8-14 to 27-2-7, Exterior(2R) 27-2-7 to 31-7-4, Interior (1) 31-7-4 to 42-3-0 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, 21-3-4 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x4 (=) MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)

Standard



September 5,2025

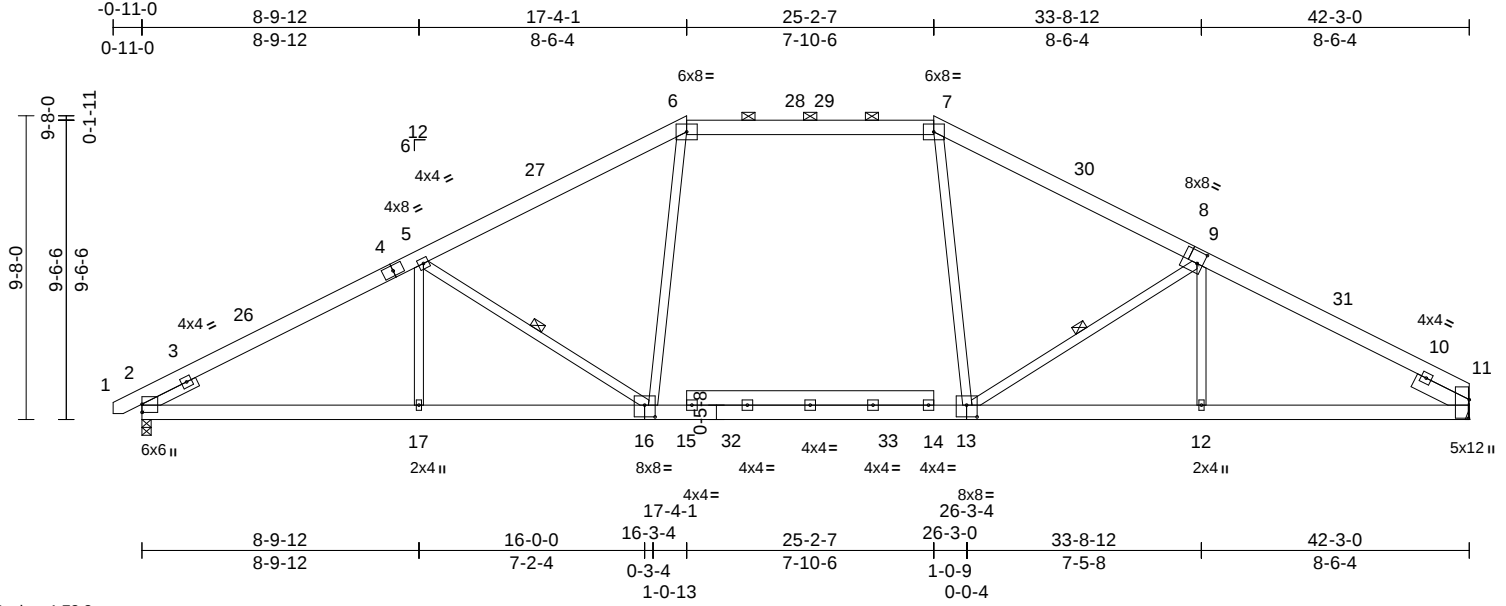
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-A	A03	Hip	1	1	176118470
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.30 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:21

Page: 1

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Scale = 1:73.3

Plate Offsets (X, Y): [8:0-2-4,0-4-8], [11:0-7-2,0-0-5], [13:0-4-0,0-4-8], [16:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.35	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.48	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.10	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.18	16-17	>999	240	Weight: 301 lb	FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 1-11-0, Right 2x6 SP No.2 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied, except
	2-0-0 oc purlins (5-2-12 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-16, 9-13

REACTIONS

(size)	2=0-3-8, 11= Mechanical
Max Horiz	2=120 (LC 9)
Max Grav	2=1835 (LC 1), 11=1790 (LC 1)

FORCES

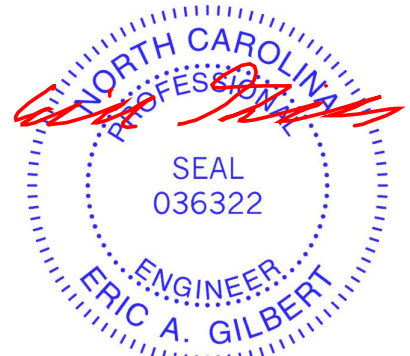
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/20, 2-5=-3020/445, 5-6=-2552/412, 6-7=-2106/438, 7-9=-2524/415, 9-11=-2936/433
BOT CHORD	2-17=-317/2598, 12-17=-317/2598, 11-12=-285/2513
WEBS	5-17=0/233, 5-16=-644/273, 9-13=-573/267, 9-12=-23/210, 6-16=0/670, 7-13=0/652

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 17-4-1, Exterior(2R) 17-4-1 to 21-8-14, Interior (1) 21-8-14 to 25-2-7, Exterior(2R) 25-2-7 to 29-7-4, Interior (1) 29-7-4 to 42-3-0 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, 21-3-4 from left end, supported at two points, 5-0-0 apart.

- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 5, 2025

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

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

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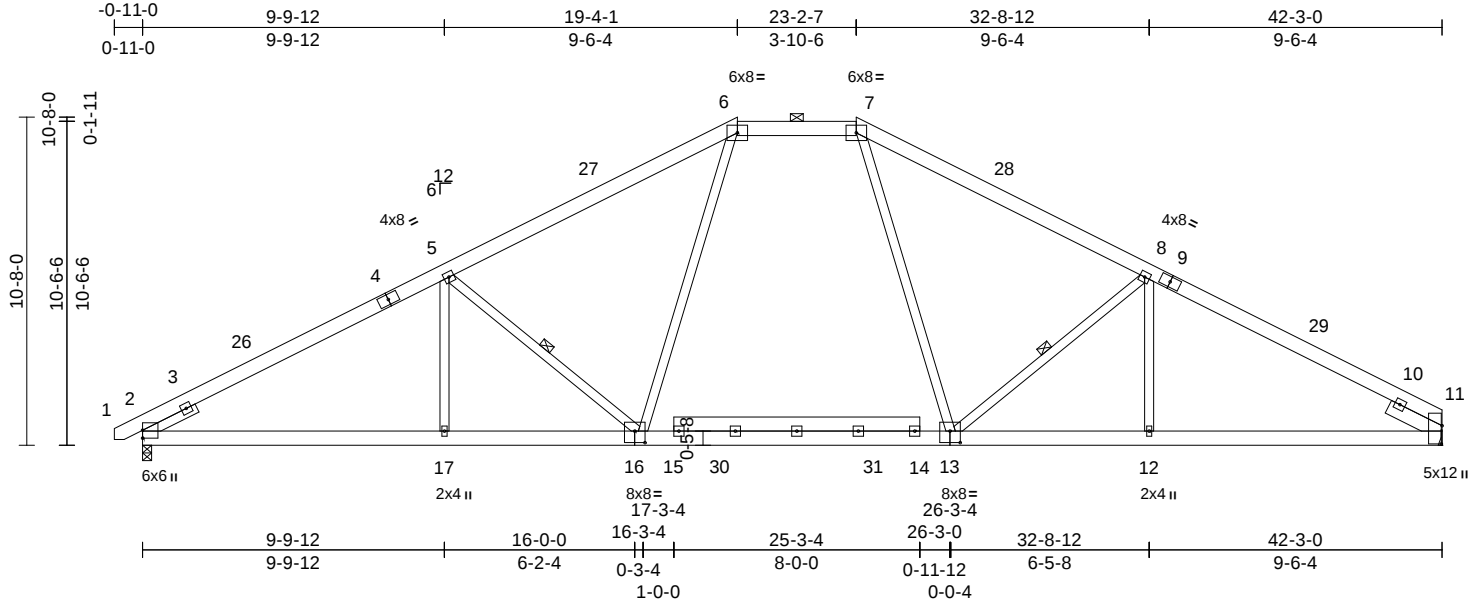
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	
250919-A	A04	Hip	1	1	Job Reference (optional)	I76118471

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.30 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:22
ID:j1iiznoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:74.9

Plate Offsets (X, Y): [11:0-7-2,0-0-5], [13:0-4-0,0-4-8], [16:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.20	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.32	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.10	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.12	16-17	>999	240	Weight: 306 lb	FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 1-11-0, Right 2x6 SP No.2 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-5-2 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-16, 8-13

REACTIONS	(size) 2=0-3-8, 11= Mechanical Max Horiz 2=133 (LC 9) Max Uplift 2=-4 (LC 12) Max Grav 2=1835 (LC 1), 11=1790 (LC 1)
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FORCES

TOP CHORD	(lb) - Maximum Compression/Maximum Tension 1-2=0/20, 2-5=-3006/437, 5-6=-2528/405, 6-7=-1928/451, 7-8=-2492/421, 8-11=-2933/431
BOT CHORD	2-17=-301/2582, 12-17=-301/2582, 11-12=-260/2508
WEBS	5-17=0/244, 5-16=-693/296, 8-13=-633/286, 6-16=0/729, 7-13=0/708, 8-12=0/218

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 19-4-1, Exterior(2E) 19-4-1 to 23-2-7, Exterior(2R) 23-2-7 to 27-7-4, Interior (1) 27-7-4 to 42-3-0 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, 21-3-4 from left end, supported at two points, 5-0-0 apart.

- Provide adequate drainage to prevent water ponding.
- All plates are 4x4 (=) MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 5,2025

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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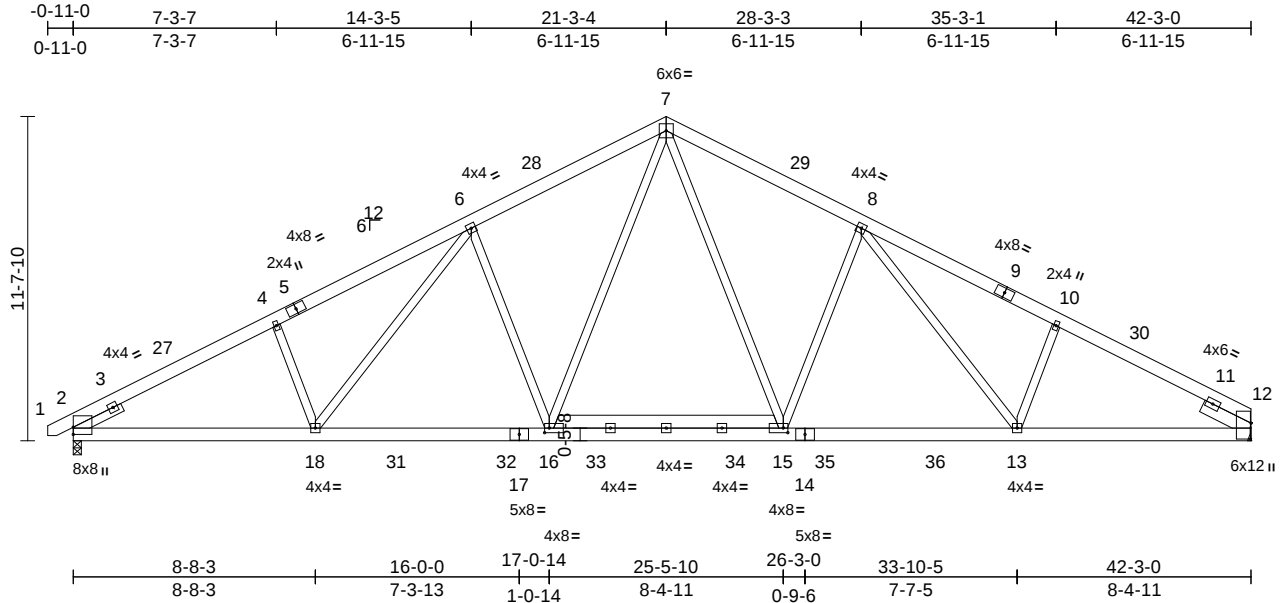
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	176118472
250919-A	A05	Common	7	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:22
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Page: 1



Scale = 1:82.7

Plate Offsets (X, Y): [12:0-6-14,0-0-5], [15:0-2-0,0-2-0], [16:0-2-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.20	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.35	13-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.11	12	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.08	16-18	>999	240	Weight: 334 lb	FT = 25%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -- 1-11-0, Right 2x6 SP No.2 -- 1-11-0

BRACING

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

REACTIONS

(size) 2=0-3-8, 12= Mechanical
Max Horiz 2=146 (LC 9)
Max Uplift 2=-13 (LC 12)
Max Grav 2=2125 (LC 2), 12=2091 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

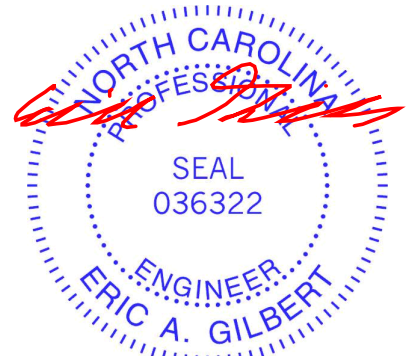
TOP CHORD 1-2=0/20, 2-4=-3564/391, 4-6=-3436/453, 6-7=-2947/409, 7-8=-2938/411, 8-10=-3323/450, 10-12=-3454/388
BOT CHORD 2-18=-257/3144, 16-18=-127/2796, 15-16=0/2146, 13-15=-107/2738, 12-13=-248/2967
WEBS 7-15=-84/1214, 8-15=-602/301, 8-13=-122/387, 10-13=-210/205, 7-16=-87/1241, 6-16=-632/304, 6-18=-127/498, 4-18=-261/210

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 21-3-4, Exterior(2R) 21-3-4 to 25-8-1, Interior (1) 25-8-1 to 42-3-0 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, 21-3-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 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.

LOAD CASE(S) Standard



September 5, 2025

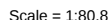
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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Comtech, Inc, Fayetteville, NC - 28314, Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:22 Page: 1
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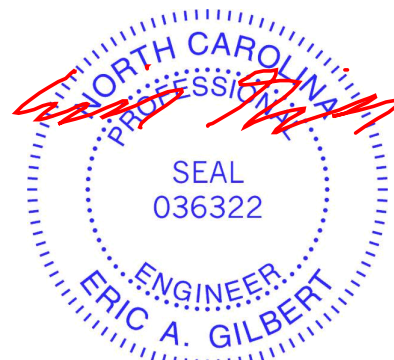


NOTES

- 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) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 21-3-4, Exterior(2R) 21-3-4 to 25-8-1, Interior (1) 25-8-1 to 43-5-8 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 2 and 114 lb uplift at joint 12.
- 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.

LOAD CASE(S) Standard



September 5, 2025



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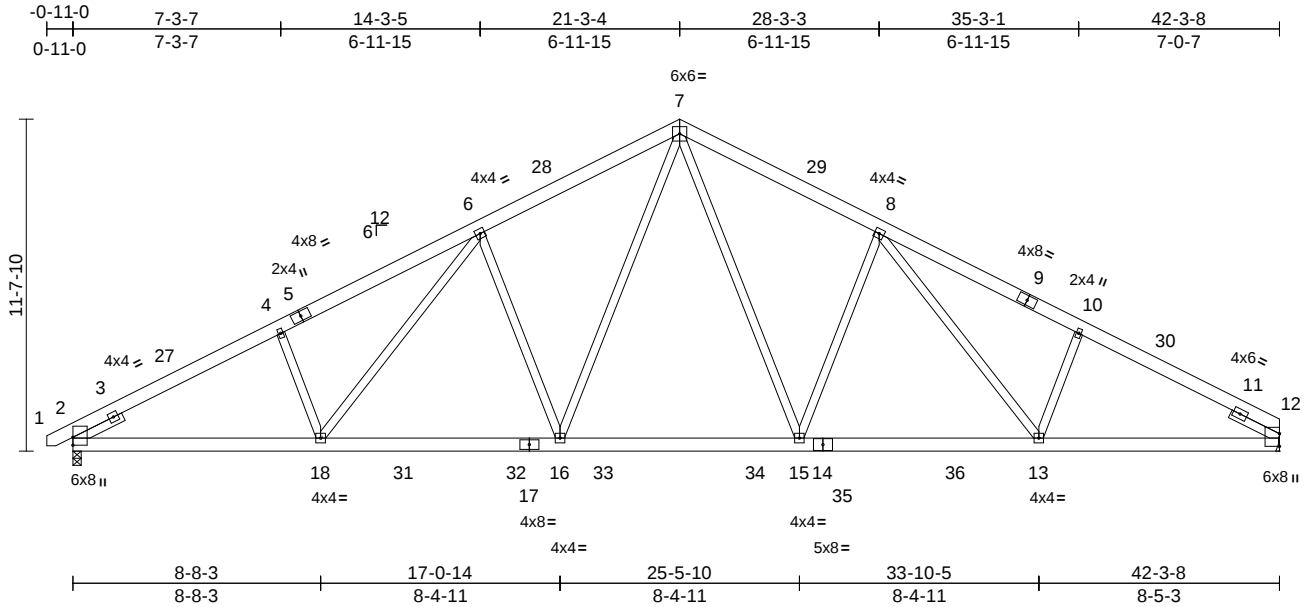
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	176118474
250919-A	A07	Common	3	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:22
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Page: 1



Scale = 1:80.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.21	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.35	13-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	12	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.08	16-18	>999	240	Weight: 314 lb	FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 1-11-0, Right 2x4 SP No.2 -- 1-11-0

BRACING

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

REACTIONS

(size)	2=0-3-8, 12= Mechanical
Max Horiz	2=146 (LC 9)
Max Uplift	2=-112 (LC 12), 12=-100 (LC 13)
Max Grav	2=2033 (LC 2), 12=1997 (LC 2)

FORCES

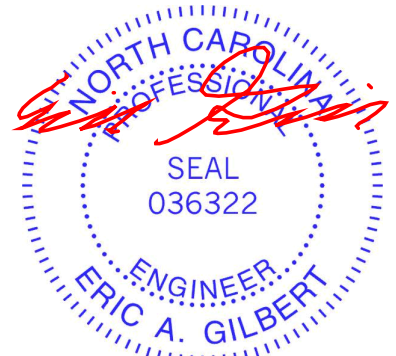
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/20, 2-4=-3388/582, 4-6=-3261/643, 6-7=-2744/624, 7-8=-2736/625, 8-10=-3166/637, 10-12=-3295/576
BOT CHORD	2-18=-424/2989, 16-18=-314/2619, 15-16=-147/1999, 13-15=-294/2565, 12-13=-412/2832
WEBS	7-15=-186/1121, 8-15=-621/288, 8-13=-89/437, 10-13=-230/196, 7-16=-189/1143, 6-16=-645/293, 6-18=-98/531, 4-18=-271/199

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 21-3-4, Exterior(2R) 21-3-4 to 25-8-1, Interior (1) 25-8-1 to 42-3-8 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 2 and 100 lb uplift at joint 12.
- 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.

LOAD CASE(S) Standard



September 5, 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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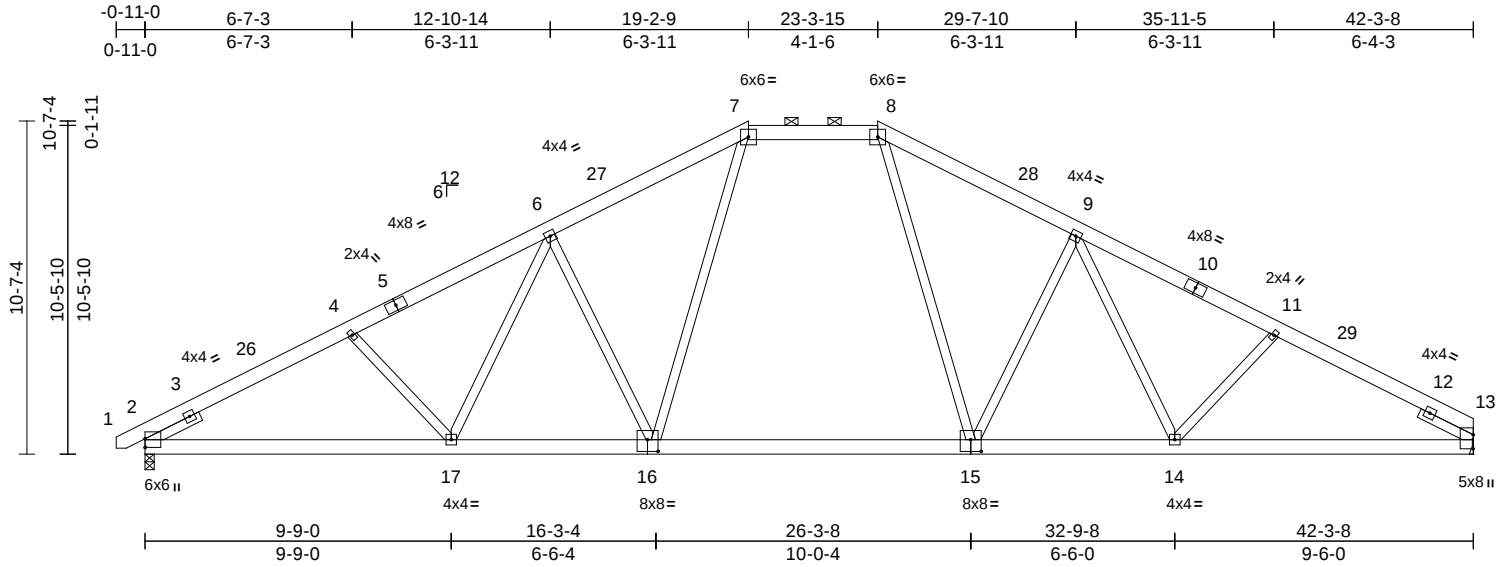
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	176118475
250919-A	A08	Hip	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:22
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Page: 1



Scale = 1:73.4

Plate Offsets (X, Y): [15:0-4-0,0-4-8], [16:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.18	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.28	16-17	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.09	13	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.12	16-17	>999	240	Weight: 304 lb	FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 1-11-0, Right 2x4 SP No.2 -- 1-11-0

BRACING

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

REACTIONS

(size)	2=0-3-8, 13= Mechanical
Max Horiz	2=132 (LC 9)
Max Uplift	2=-102 (LC 12), 13=-90 (LC 13)
Max Grav	2=1738 (LC 1), 13=1691 (LC 1)

FORCES

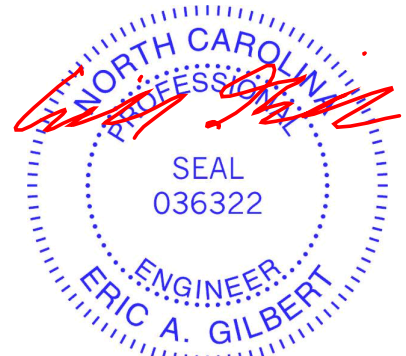
TOP CHORD	(lb) - Maximum Compression/Maximum Tension
BOT CHORD	1-2=0/20, 2-4=-2834/637, 4-6=-2631/635, 6-7=-2304/665, 7-8=-1765/610, 8-9=-2277/662, 9-11=-2568/635, 11-13=-2750/642
WEBS	2-17=-498/2437, 14-17=-399/2206, 13-14=-474/2347
	4-17=-198/168, 6-17=-36/300, 6-16=-644/267, 9-15=-615/259, 9-14=-30/251, 11-14=-146/161, 7-16=-140/760, 8-15=-130/733

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 19-2-9, Exterior(2E) 19-2-9 to 23-3-15, Exterior(2R) 23-3-15 to 27-8-12, Interior (1) 27-8-12 to 42-3-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2 and 90 lb uplift at joint 13.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 5, 2025

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

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

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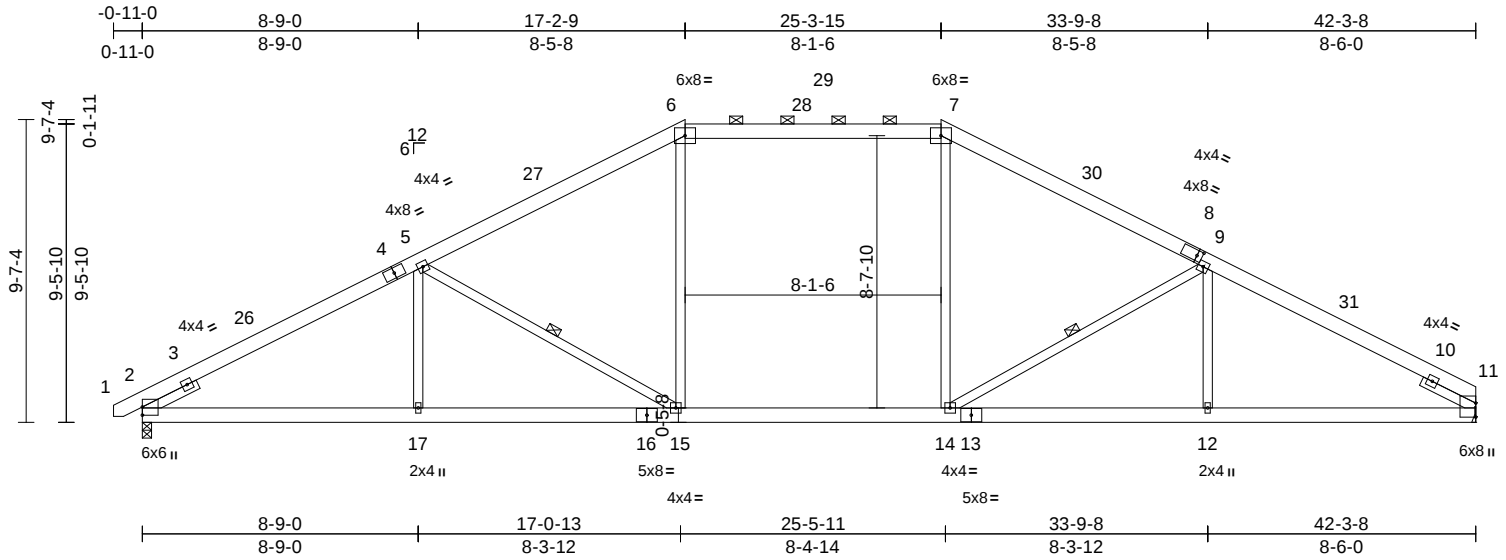
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	
250919-A	A09	Hip	1	1	Job Reference (optional)	I76118476

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:22
ID:j1iiznoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRCDoi7J4zJC?i

Page: 1



Scale = 1:73.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.36	15-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.48	15-17	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.10	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.18	15-17	>999	240	Weight: 282 lb	FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 1-11-0, Right 2x4 SP No.2 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-4-13 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-15, 9-14

REACTIONS

(size)	2=0-3-8, 11= Mechanical
Max Horiz	2=119 (LC 9)
Max Uplift	2=-91 (LC 12), 11=-79 (LC 13)
Max Grav	2=1738 (LC 1), 11=1691 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-0/20, 2-5=-2838/634, 5-6=-2288/621, 6-7=-1948/615, 7-9=-2284/623, 9-11=-2766/619
BOT CHORD	2-17=-483/2438, 15-17=-483/2438, 14-15=-290/1948, 12-14=-450/2364, 11-12=-450/2364
WEBS	5-17=0/287, 5-15=-697/229, 6-15=-9/551, 7-14=-7/535, 9-14=-621/225, 9-12=0/260

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 17-2-9, Exterior(2R) 17-2-9 to 21-7-6, Interior (1) 21-7-6 to 25-3-15, Exterior(2R) 25-3-15 to 29-8-12, Interior (1) 29-8-12 to 42-3-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 2 and 79 lb uplift at joint 11.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 5, 2025

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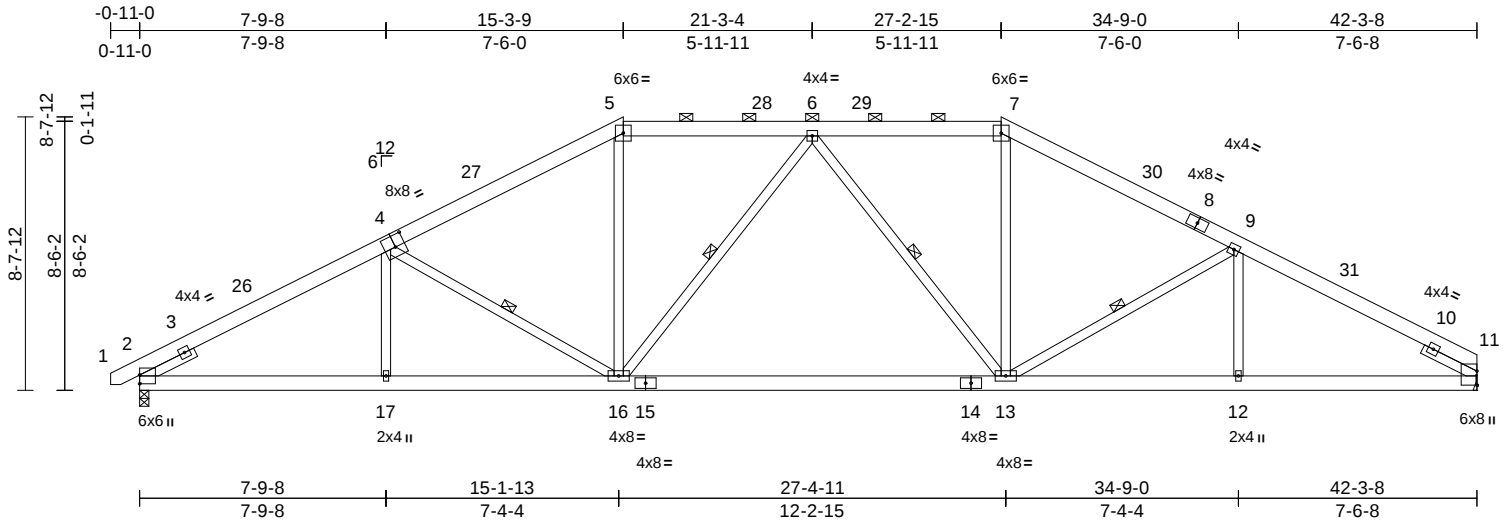
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-A	A10	Hip	1	1	176118477
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:22

Page: 1

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Scale = 1:72.9

Plate Offsets (X, Y): [4:0-3-12,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.15	13-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.36	13-16	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.10	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.08	12-13	>999	240	Weight: 303 lb	FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 1-11-0, Right 2x4 SP No.2 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied, except
	2-0-0 oc purlins (5-4-7 max.): 5-7.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-16, 6-16, 6-13, 9-13

REACTIONS	(size) 2=0-3-8, 11= Mechanical
	Max Horiz 2=106 (LC 9)
	Max Uplift 2=-80 (LC 12), 11=-67 (LC 13)
	Max Grav 2=1738 (LC 1), 11=1691 (LC 1)

FORCES

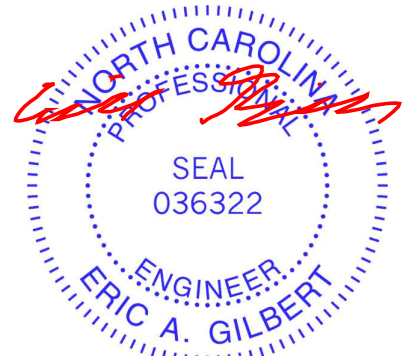
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/20, 2-5=-2830/630, 5-6=-2088/612, 6-7=-2077/608, 7-9=-2394/612, 9-11=-2752/623
BOT CHORD	2-17=-487/2434, 16-17=-490/2432, 13-16=-378/2217, 12-13=-456/2355, 11-12=-456/2355
WEBS	4-17=0/184, 4-16=-420/197, 5-16=-58/633, 6-16=-371/146, 6-13=-387/145, 7-13=-53/617, 9-13=-346/177, 9-12=0/159

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) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 15-3-9, Exterior(2R) 15-3-9 to 19-8-6, Interior (1) 19-8-6 to 27-2-15, Exterior(2R) 27-2-15 to 31-7-12, Interior (1) 31-7-12 to 42-3-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 2 and 67 lb uplift at joint 11.
- 8) 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 5,2025

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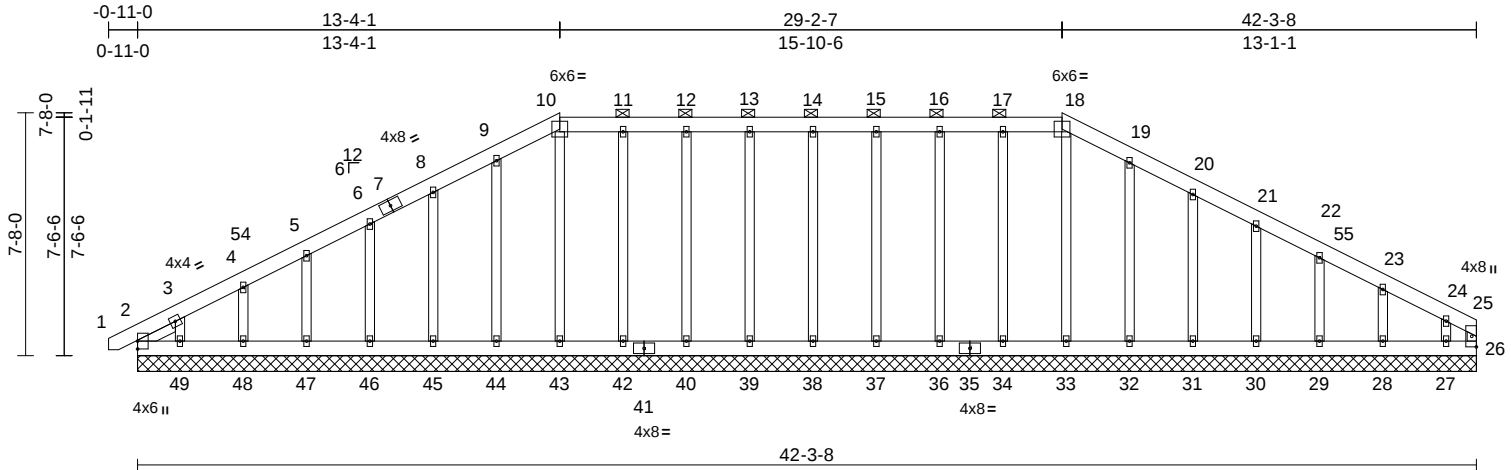
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	176118478
250919-A	A11GE	Hip Supported Gable	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.30 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:23

Page: 1

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Scale = 1:72.8

Plate Offsets (X, Y): [10:Edge,0-0-0], [18:Edge,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	26	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							
Weight: 357 lb FT = 25%											

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 1-4-2

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 10-18.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS (size)	2=42-3-8, 26=42-3-8, 27=42-3-8, 28=42-3-8, 29=42-3-8, 30=42-3-8, 31=42-3-8, 32=42-3-8, 33=42-3-8, 34=42-3-8, 36=42-3-8, 37=42-3-8, 38=42-3-8, 39=42-3-8, 40=42-3-8, 42=42-3-8, 43=42-3-8, 44=42-3-8, 45=42-3-8, 46=42-3-8, 47=42-3-8, 48=42-3-8, 49=42-3-8
Max Horiz	2=95 (LC 9)
Max Uplift	2=-32 (LC 8), 26=-13 (LC 11), 27=-96 (LC 13), 28=-32 (LC 13), 29=-34 (LC 13), 30=-33 (LC 13), 31=-36 (LC 13), 32=-26 (LC 13), 34=-14 (LC 9), 36=-20 (LC 8), 37=-17 (LC 8), 38=-17 (LC 9), 39=-17 (LC 9), 40=-20 (LC 8), 42=-16 (LC 9), 44=-26 (LC 12), 45=-36 (LC 12), 46=-33 (LC 12), 47=-34 (LC 12), 48=-32 (LC 12), 49=-78 (LC 12)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/20, 2-3=-87/45, 3-4=-92/66, 4-5=-75/63, 5-6=-66/100, 6-8=-58/158, 8-9=-78/217, 9-10=-95/264, 10-11=-88/261, 11-12=-87/259, 12-13=-87/259, 13-14=-87/259, 14-15=-87/259, 15-16=-87/259, 16-17=-87/259, 17-18=-88/261, 18-19=-94/264, 19-20=-76/214, 20-21=-55/154, 21-22=-40/97, 22-23=-40/32, 23-24=-65/24, 24-25=-149/42, 25-26=-97/20
BOT CHORD	2-49=-28/119, 48-49=-28/119, 47-48=-28/119, 46-47=-28/119, 45-46=-28/119, 44-45=-28/119, 43-44=-28/119, 42-43=-28/119, 40-42=-28/119, 39-40=-28/119, 38-39=-28/119, 37-38=-28/119, 36-37=-28/119, 34-36=-28/119, 33-34=-28/119, 32-33=-29/118, 31-32=-29/118, 30-31=-29/118, 29-30=-29/118, 28-29=-29/118, 27-28=-29/118, 26-27=-29/118

WEBS

10-43=-110/13, 9-44=-122/86, 8-45=-120/110, 6-46=-120/105, 5-47=-120/104, 4-48=-123/145, 3-49=-88/169, 11-42=-123/71, 12-40=-121/85, 13-39=-120/79, 14-38=-120/79, 15-37=-120/79, 16-36=-122/85, 17-34=-118/67, 18-33=-111/0, 19-32=-127/92, 20-31=-119/109, 21-30=-120/105, 22-29=-119/121, 23-28=-124/169, 24-27=-92/179
--

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 Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 13-4-1, Corner(3R) 13-4-1 to 17-8-14, Exterior(2N) 17-8-14 to 29-2-7, Corner(3R) 29-2-7 to 33-4-1, Exterior (2N) 33-4-1 to 42-1-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



September 5,2025

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-A	A11GE	Hip Supported Gable	1	1	I76118478
					Job Reference (optional)

- 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 (11) MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 26, 32 lb uplift at joint 2, 26 lb uplift at joint 44, 36 lb uplift at joint 45, 33 lb uplift at joint 46, 34 lb uplift at joint 47, 32 lb uplift at joint 48, 78 lb uplift at joint 49, 16 lb uplift at joint 42, 20 lb uplift at joint 40, 17 lb uplift at joint 39, 17 lb uplift at joint 38, 17 lb uplift at joint 37, 20 lb uplift at joint 36, 14 lb uplift at joint 34, 26 lb uplift at joint 32, 36 lb uplift at joint 31, 33 lb uplift at joint 30, 34 lb uplift at joint 29, 32 lb uplift at joint 28, 96 lb uplift at joint 27 and 32 lb uplift at joint 2.
- 11) 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.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



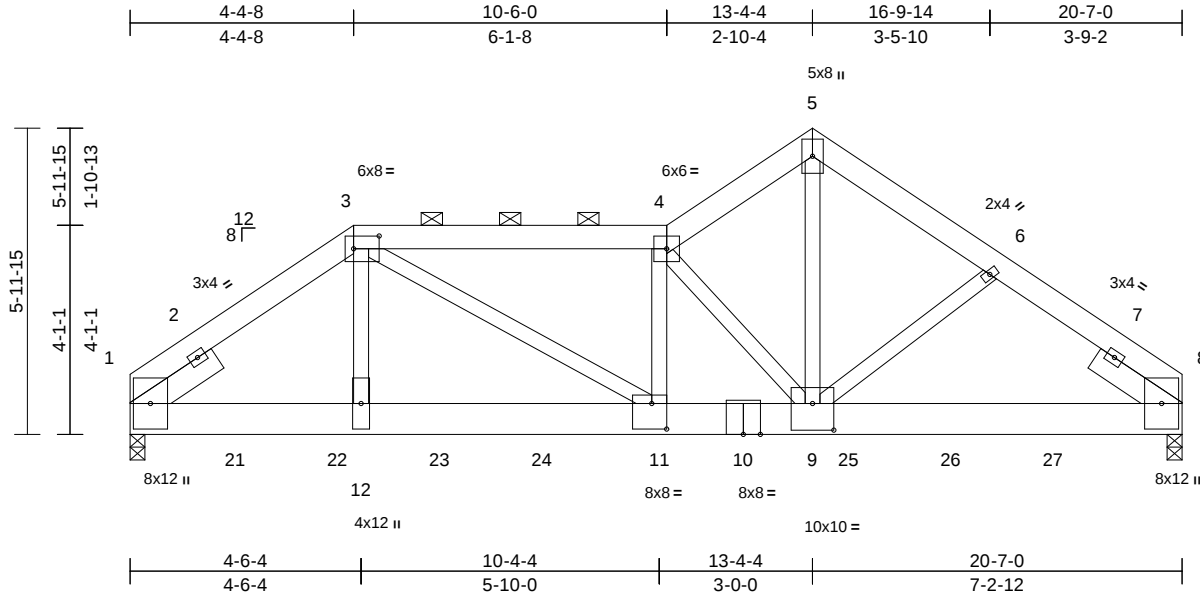
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	176118480
250919-A	B02-GR	Roof Special Girder	1	3	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:23
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Page: 1



Scale = 1:45.1

Plate Offsets (X, Y): [1:0-6-0,0-0-13], [3:0-6-0,0-3-0], [8:0-6-4,0-0-13], [9:0-5-0,0-6-4], [11:0-3-8,0-6-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.13	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.25	11-12	>973	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.01	11-12	>999	240	Weight: 502 lb	FT = 25%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except* 9-5:2x4 SP No.1
SLIDER Left 2x6 SP No.2 -- 1-11-0, Right 2x6 SP No.2 -- 1-11-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 1=0-3-8, 8=0-3-8
Max Horiz 1=116 (LC 7)
Max Grav 1=9072 (LC 2), 8=11547 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-12474/0, 3-4=-15710/0, 4-5=-11978/0, 5-6=-12069/0, 6-8=-11949/0
BOT CHORD 1-12=0/10058, 11-12=0/10213, 9-11=0/15693, 8-9=0/9794
WEBS 3-12=0/4129, 3-11=0/6415, 4-11=0/684, 5-9=0/12636, 4-9=-8895/0, 6-9=0/509

NOTES

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-5-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-11 2x4 - 2 rows staggered at 0-5-0 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1770 lb down at 2-0-12, 1770 lb down at 4-0-12, 1770 lb down at 6-0-12, 2071 lb down at 8-0-12, 2071 lb down at 10-0-12, 2071 lb down at 12-0-12, 2071 lb down at 14-0-12, 2071 lb down at 16-0-12, and 2071 lb down at 18-0-12, and 2076 lb down at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-4=-60, 4-5=-60, 5-8=-60, 13-17=-20
Concentrated Loads (lb)
Vert: 10=-1770 (B), 11=-1770 (B), 19=-1775 (B), 21=-1770 (B), 22=-1770 (B), 23=-1770 (B), 24=-1770 (B), 25=-1770 (B), 26=-1770 (B), 27=-1770 (B)



September 5, 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

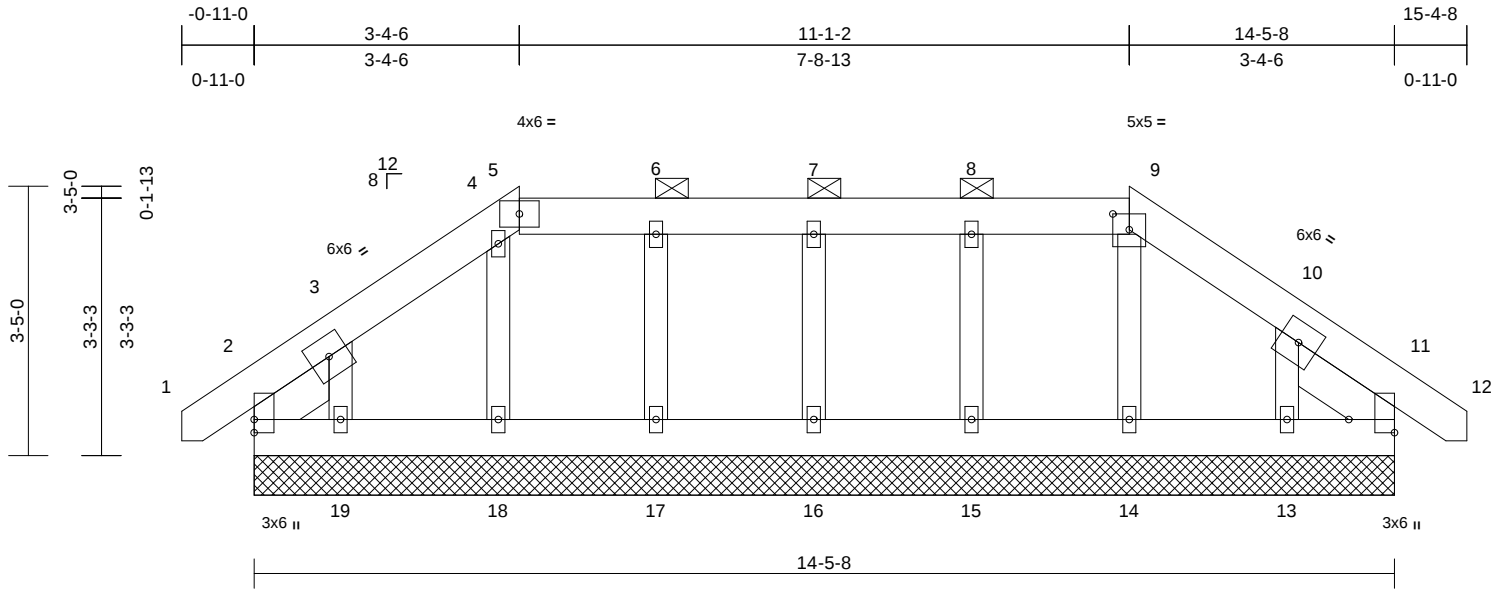
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	176118481
250919-A	C01GE	Hip Supported Gable	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:23

Page: 1

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Scale = 1:29.2

Plate Offsets (X, Y): [9:0-2-8,0-2-6], [11:Edge,0-6-15]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	11	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							
										Weight: 104 lb	FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
OTHERS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -- 1-2-13, Right 2x6 SP No.2 -- 1-6-10

BRACING

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

REACTIONS	(size)	2=14-5-8, 11=14-5-8, 13=14-5-8, 14=14-5-8, 15=14-5-8, 16=14-5-8, 17=14-5-8, 18=14-5-8, 19=14-5-8
	Max Horiz	2=65 (LC 11)
	Max Uplift	2=-35 (LC 8), 11=-7 (LC 9), 13=-54 (LC 13), 15=-20 (LC 9), 16=-19 (LC 8), 17=-17 (LC 9), 18=-8 (LC 9), 19=-64 (LC 12)
	Max Grav	2=112 (LC 1), 11=121 (LC 1), 13=153 (LC 20), 14=145 (LC 26), 15=165 (LC 25), 16=160 (LC 26), 17=161 (LC 26), 18=150 (LC 25), 19=152 (LC 19)

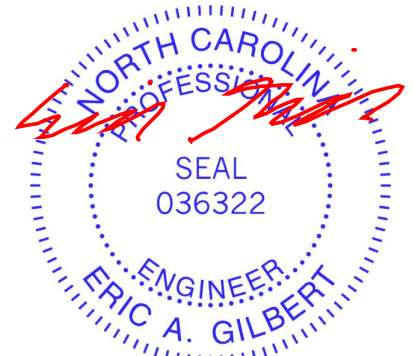
FORCES

TOP CHORD	(lb) - Maximum Compression/Maximum Tension	1-2=0/26, 2-3=-26/46, 3-4=-65/108, 4-5=-73/135, 5-6=-61/128, 6-7=-60/127, 7-8=-60/127, 8-9=-61/129, 9-10=-62/108, 10-11=-13/31, 11-12=0/26
BOT CHORD		2-19=-18/67, 18-19=-18/67, 17-18=-18/67, 16-17=-18/67, 15-16=-18/67, 14-15=-18/67, 13-14=-18/67, 11-13=-18/67
WEBS		9-14=-106/49, 8-15=-126/88, 7-16=-120/96, 6-17=-121/79, 4-18=-110/63, 3-19=-92/123, 10-13=-100/137

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 Corner(3E) -0-9-7 to 3-4-6, Corner(3R) 3-4-6 to 7-9-2, Exterior(2N) 7-9-2 to 11-1-2, Corner(3E) 11-1-2 to 15-2-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2, 7 lb uplift at joint 11, 20 lb uplift at joint 15, 19 lb uplift at joint 16, 17 lb uplift at joint 17, 8 lb uplift at joint 18, 64 lb uplift at joint 19, 54 lb uplift at joint 13, 35 lb uplift at joint 2 and 7 lb uplift at joint 11.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 5, 2025

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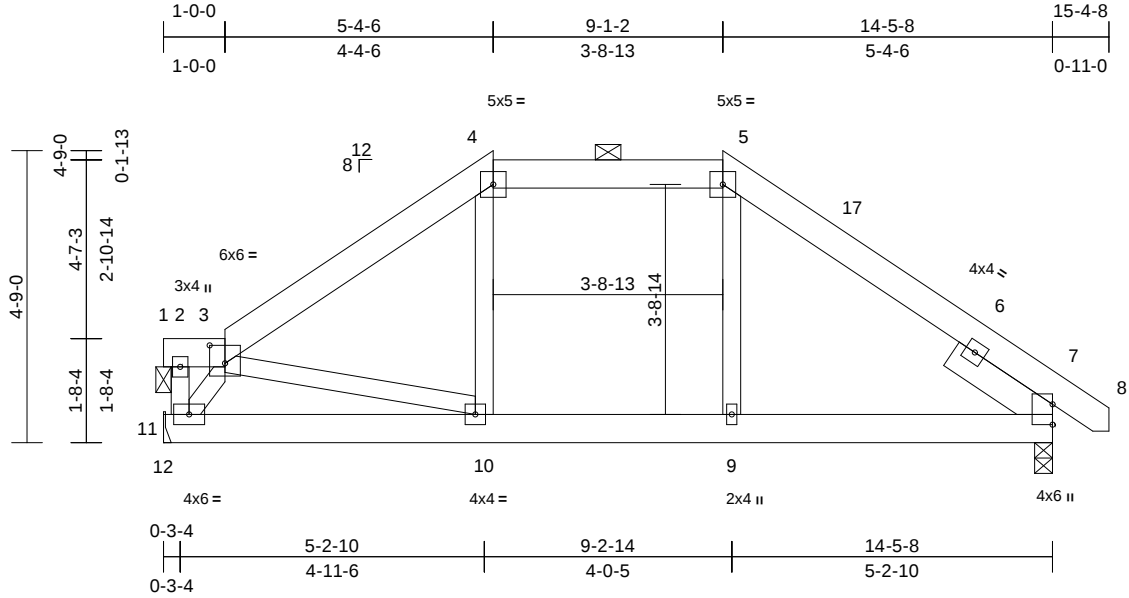
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	176118482
250919-A	C02	Roof Special	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:23

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Scale = 1:37.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.02	10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	10-11	>999	240	Weight: 100 lb	FT = 25%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Right 2x6 SP No.2 -- 1-11-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3, 4-5.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 7=0-3-8, 11= Mechanical
Max Horiz 11=-91 (LC 8)
Max Uplift 7=-31 (LC 13), 11=-21 (LC 12)
Max Grav 7=712 (LC 20), 11=678 (LC 2)

FORCES

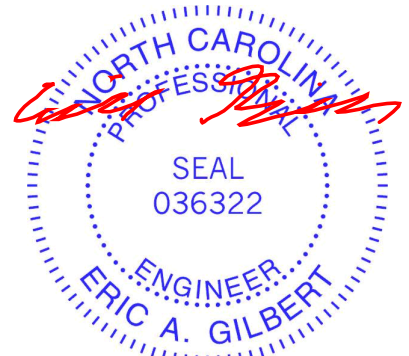
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-11=-57/43, 1-2=0/0, 2-3=-60/0, 3-4=-753/187, 4-5=-573/215, 5-7=-756/200, 7-8=0/26
BOT CHORD 11-12=0/0, 10-11=-96/457, 9-10=-39/576, 7-9=-55/583
WEBS 3-11=-673/274, 3-10=-56/259, 4-10=0/221, 5-9=0/241

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) 0-0-0 to 1-0-0, Interior (1) 1-0-0 to 5-4-6, Exterior(2E) 5-4-6 to 15-2-15 zone; C/C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 11 and 31 lb uplift at joint 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 5, 2025

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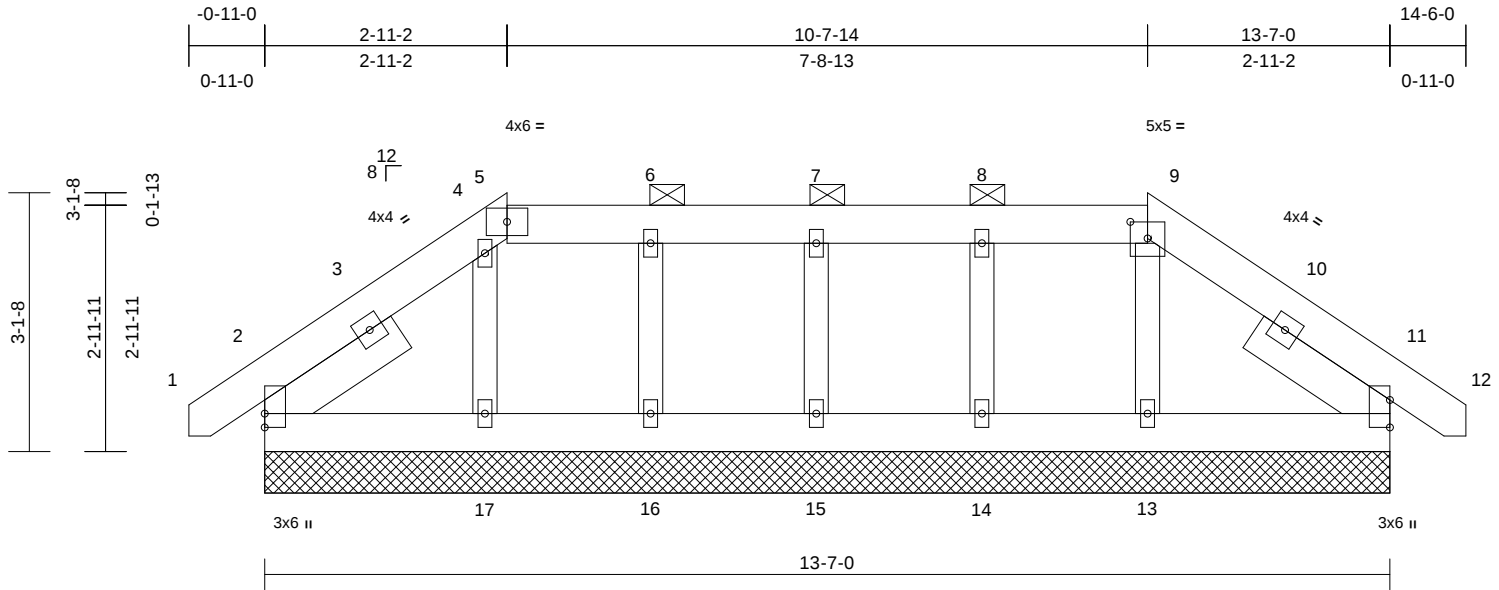
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	176118483
250919-A	D01GE	Hip Supported Gable	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:23
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Page: 1



Scale = 1:27.8

Plate Offsets (X, Y): [9:0-2-8,0-2-6]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	11	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							
										Weight: 97 lb	FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
OTHERS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -- 1-11-0, Right 2x6 SP No.2 -- 1-11-0

BRACING

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

REACTIONS	(size)	2=13-7-0, 11=13-7-0, 13=13-7-0, 14=13-7-0, 15=13-7-0, 16=13-7-0, 17=13-7-0
	Max Horiz	2=58 (LC 11)
	Max Uplift	2=-26 (LC 13), 11=-35 (LC 13), 13=-13 (LC 8), 14=-29 (LC 9), 15=-17 (LC 8), 16=-26 (LC 8), 17=-33 (LC 9)
	Max Grav	2=188 (LC 1), 11=196 (LC 1), 13=184 (LC 26), 14=158 (LC 25), 15=167 (LC 1), 16=156 (LC 26), 17=177 (LC 19)

FORCES

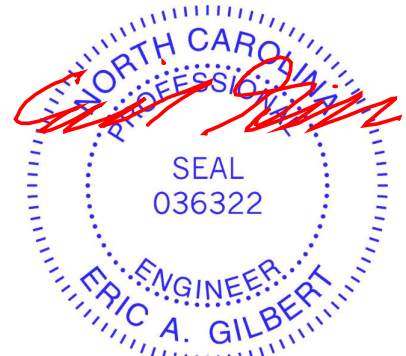
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/26, 2-4=-76/133, 4-5=-101/165, 5-6=-89/157, 6-7=-88/156, 7-8=-88/156, 8-9=-89/157, 9-11=-78/130, 11-12=0/26
BOT CHORD	2-17=-3/53, 16-17=-3/53, 15-16=-3/53, 14-15=-3/53, 13-14=-3/53, 11-13=-3/53
WEBS	9-13=-113/64, 8-14=-124/84, 7-15=-122/102, 6-16=-119/78, 4-17=-111/64

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 Corner(3E) -0-9-7 to 2-11-2, Corner(3R) 2-11-2 to 7-3-14, Exterior(2N) 7-3-14 to 10-7-14, Corner(3E) 10-7-14 to 14-4-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2, 35 lb uplift at joint 11, 13 lb uplift at joint 13, 29 lb uplift at joint 14, 17 lb uplift at joint 15, 26 lb uplift at joint 16, 33 lb uplift at joint 17, 26 lb uplift at joint 2 and 35 lb uplift at joint 11.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 5,2025

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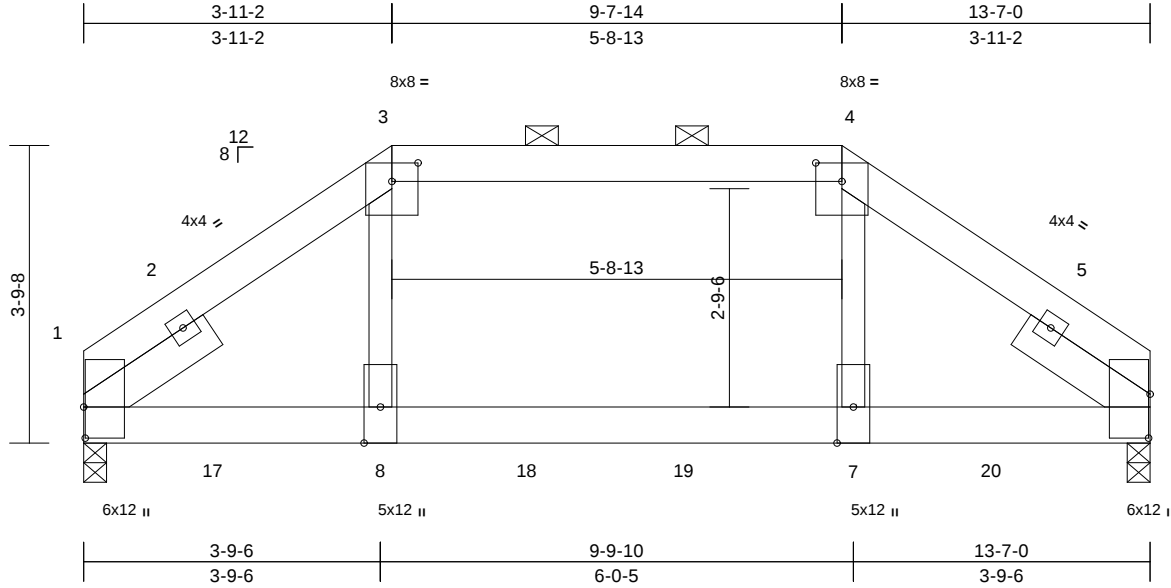
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	
250919-A	D02-GR	Hip Girder	1	2	Job Reference (optional)	I76118484

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:24
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Page: 1



Scale = 1:29.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.13	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.24	7-8	>674	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.08	7-8	>999	240	Weight: 172 lb	FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -- 1-11-0, Right 2x6 SP No.2 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-0-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	1=0-3-8, 6=0-3-8
Max Horiz	1=64 (LC 26)
Max Uplift	1=-339 (LC 8), 6=-295 (LC 9)
Max Grav	1=6056 (LC 2), 6=5475 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-3=-7321/429, 3-4=-5606/349, 4-6=-7292/428
BOT CHORD	1-8=-337/5794, 7-8=-330/5606, 6-7=-339/5785
WEBS	3-8=-213/4318, 4-7=-205/4127

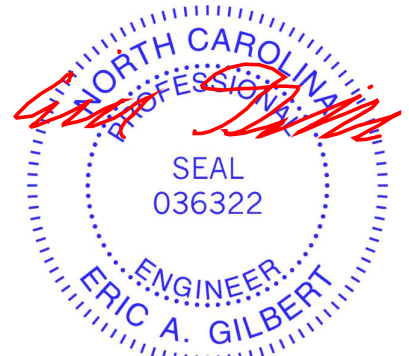
NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-8-0 oc.
Web connected as follows: 2x4 - 1 row at 0-3-0 oc, Except member 4-7 2x4 - 2 rows staggered at 0-7-0 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 339 lb uplift at joint 1 and 295 lb uplift at joint 6.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1977 lb down and 112 lb up at 1-7-12, 1977 lb down and 112 lb up at 3-7-12, 1977 lb down and 112 lb up at 5-7-12, 1671 lb down and 102 lb up at 7-7-12, and 1671 lb down and 91 lb up at 9-7-12, and 1671 lb down and 79 lb up at 11-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-4=-60, 4-6=-60, 9-13=-20
Concentrated Loads (lb)
Vert: 8=-1671 (B), 7=-1671 (B), 17=-1671 (B), 18=-1671 (B), 19=-1671 (B), 20=-1671 (B)



September 5, 2025

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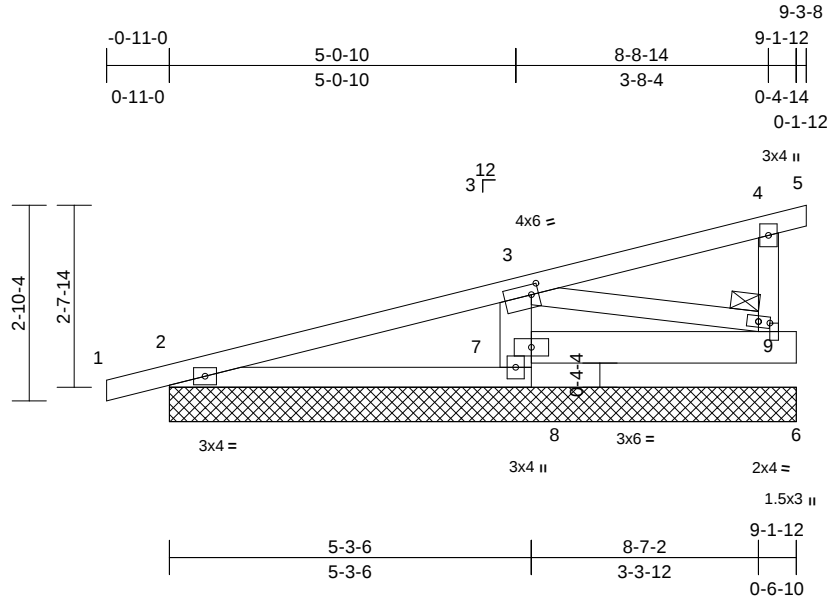
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	176118485
250919-A	M01GE	Monopitch	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:24
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Page: 1



Scale = 1:33.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 42 lb	FT = 25%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1 *Except* 2-8:2x4 SP No.1,
9-4:2x4 SP No.2
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 9

REACTIONS (size) 2=9-1-12, 6=9-1-12, 7=9-1-12,
8=9-1-12
Max Horiz 2=122 (LC 8)
Max Uplift 2=-28 (LC 8), 7=-265 (LC 12)
Max Grav 2=150 (LC 1), 6=67 (LC 3), 7=546
(LC 1), 8=101 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/13, 2-3=-435/289, 3-4=-97/64, 4-5=-9/0
BOT CHORD 2-8=-236/294, 7-8=0/0, 3-7=-498/521,
4-9=-15/13, 6-7=0/0
WEBS 3-9=-78/91

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) exterior zone
and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior (1)
3-5-13 to 9-3-8 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.

- 5) Bearing at joint(s) 7 considers parallel to grain value
using ANSI/TPI 1 angle to grain formula. Building
designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 28 lb uplift at joint
2, 265 lb uplift at joint 7 and 28 lb uplift at joint 2.
- 7) Beveled plate or shim required to provide full bearing
surface with truss chord at joint(s) 6.
- 8) 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.

LOAD CASE(S) Standard



September 5, 2025

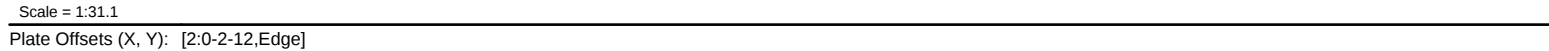
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

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LOAD CASE(S) Standard

- September 5, 2025

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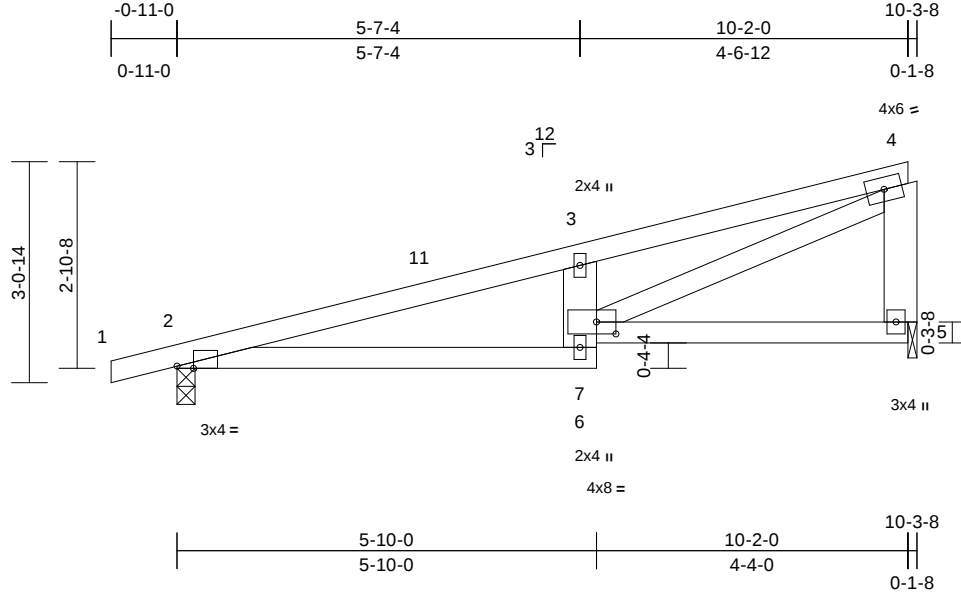
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Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	I76118487
250919-A	M03	Monopitch	3	1	Job Reference (optional)	

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Page: 1



Scale = 1:32

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.09	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	7-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 46 lb	FT = 25%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x6 SP No.2 *Except* 6-4:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-0, 5=0-1-8
Max Horiz 2=93 (LC 8)
Max Uplift 2=-180 (LC 8), 5=-164 (LC 8)
Max Grav 2=460 (LC 1), 5=400 (LC 1)

FORCES

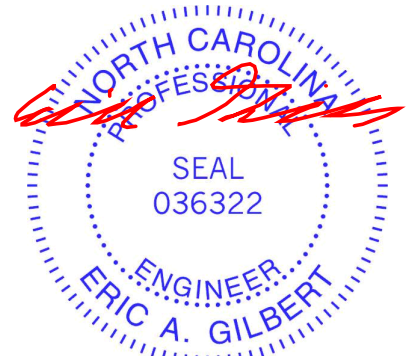
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/13, 2-3=-810/646, 3-4=-1087/977, 4-5=-345/324
BOT CHORD 2-7=-734/769, 5-6=-53/54
WEBS 4-6=-1028/1078, 6-7=-66/94, 3-6=-380/351

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) -0-11-0 to 3-5-13, Interior (1) 3-5-13 to 10-0-12 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 2 and 164 lb uplift at joint 5.
- 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.

LOAD CASE(S) Standard



September 5,2025

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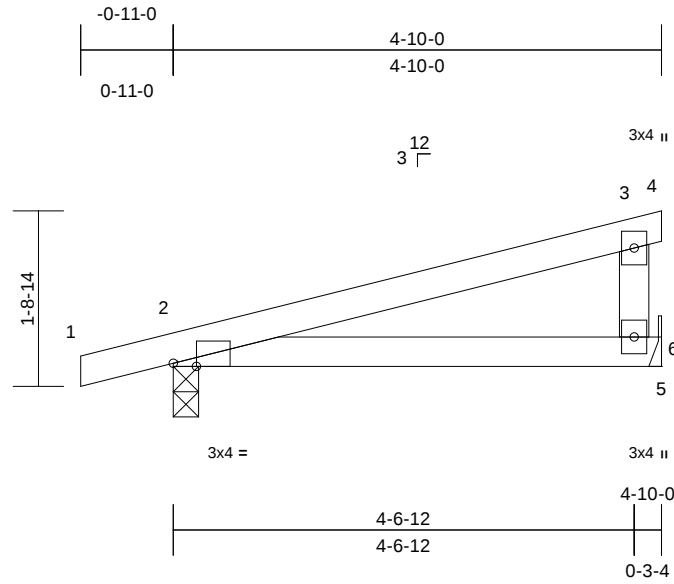
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	
250919-A	M04	Monopitch	1	1	Job Reference (optional)	I76118488

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1

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Scale = 1:22.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.02	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.04	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	6-9	>999	240	Weight: 17 lb	FT = 25%

LUMBER

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

- 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.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-0, 6= Mechanical
Max Horiz 2=50 (LC 8)
Max Uplift 2=-102 (LC 8), 6=-73 (LC 8)
Max Grav 2=243 (LC 1), 6=188 (LC 1)

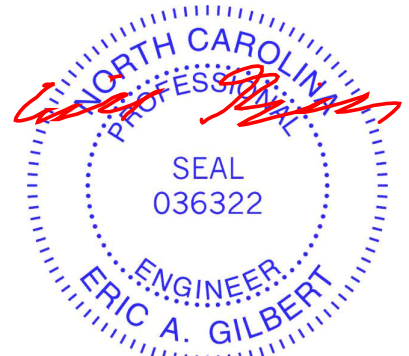
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/13, 2-3=-115/106, 3-4=-1/0, 3-6=-122/165

BOT CHORD 2-6=-145/101, 5-6=0/0

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) -0-11-0 to 3-5-13, Interior (1) 3-5-13 to 4-10-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 6 and 102 lb uplift at joint 2.



September 5,2025

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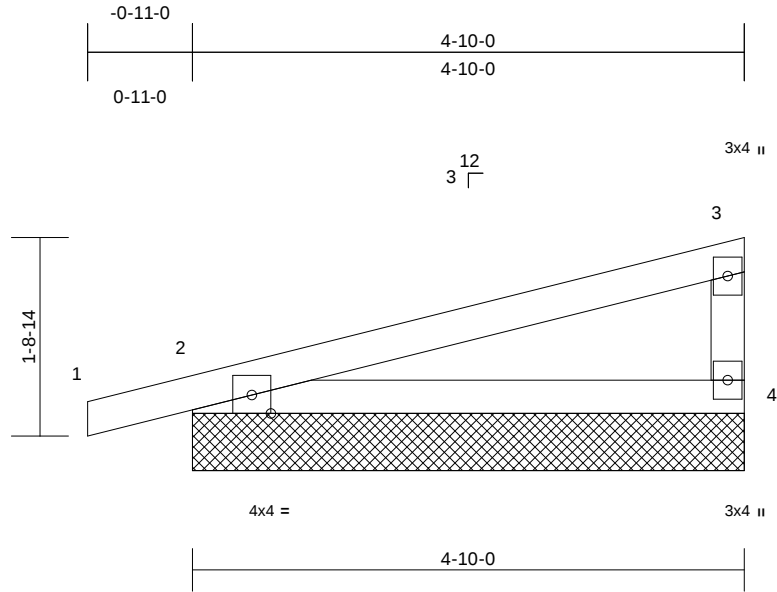
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	I76118489
250919-A	M05GE	Monopitch	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1

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Scale = 1:20.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 18 lb	FT = 25%

LUMBER

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

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 4 and 97 lb uplift at joint 2.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=4-10-0, 4=4-10-0

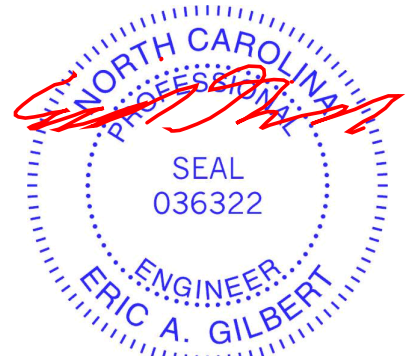
Max Horiz 2=69 (LC 8)
Max Uplift 2=-97 (LC 8), 4=-58 (LC 12)
Max Grav 2=248 (LC 1), 4=182 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/11, 2-3=-78/30, 3-4=-135/260
BOT CHORD 2-4=0/0

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) exterior zone and C-C Corner(3E) -0-11-0 to 3-5-13, Exterior(2N) 3-5-13 to 4-8-4 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 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



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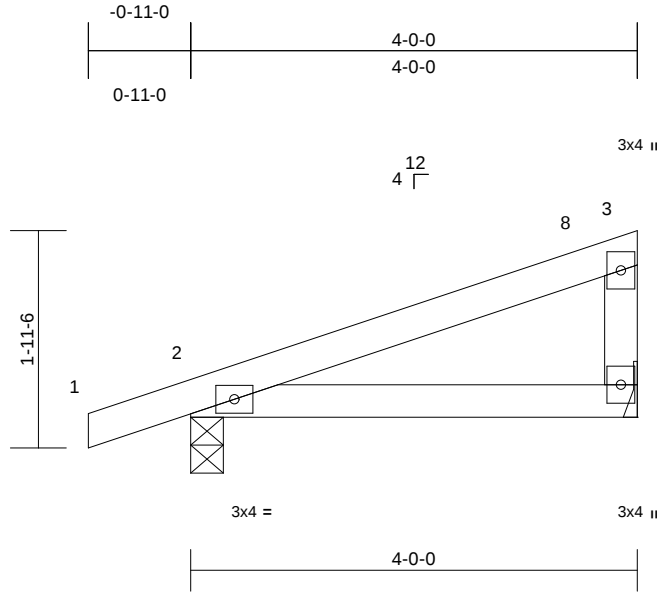
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Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	I76118490
250919-A	M06	Monopitch	2	1	Job Reference (optional)	

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Page: 1



Scale = 1:20.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 15 lb	FT = 25%

LUMBER

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 4 and 129 lb uplift at joint 2.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

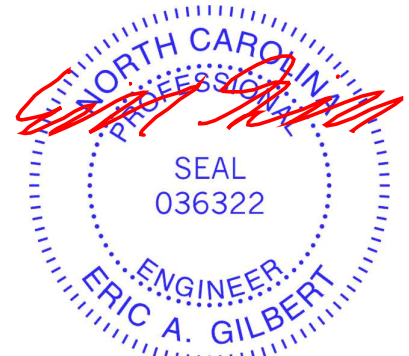
REACTIONS (size) 2=0-3-8, 4= Mechanical
Max Horiz 2=79 (LC 8)
Max Uplift 2=-129 (LC 8), 4=-92 (LC 8)
Max Grav 2=216 (LC 1), 4=148 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/17, 2-3=-64/43, 3-4=-97/152
BOT CHORD 2-4=-97/64

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) exterior zone and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior (1) 3-5-13 to 3-10-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.



September 5, 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

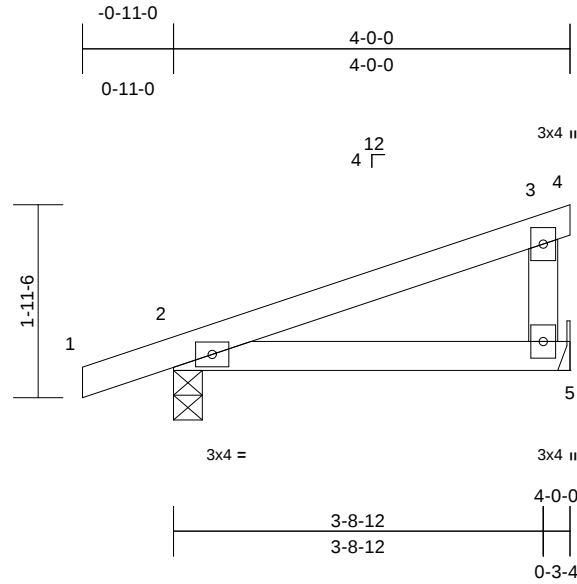
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-A	M07	Monopitch	9	1	I76118491
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:24

Page: 1

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Scale = 1:23.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.02	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 15 lb	FT = 25%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

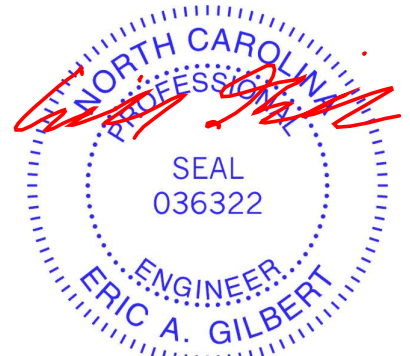
REACTIONS (size) 2=0-3-8, 6= Mechanical
Max Horiz 2=58 (LC 8)
Max Uplift 2=-87 (LC 8), 6=-62 (LC 8)
Max Grav 2=211 (LC 1), 6=154 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/17, 2-3=-61/35, 3-4=-2/0, 3-6=-99/143
BOT CHORD 2-6=-82/62, 5-6=0/0

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; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 6 and 87 lb uplift at joint 2.

LOAD CASE(S) Standard



September 5, 2025

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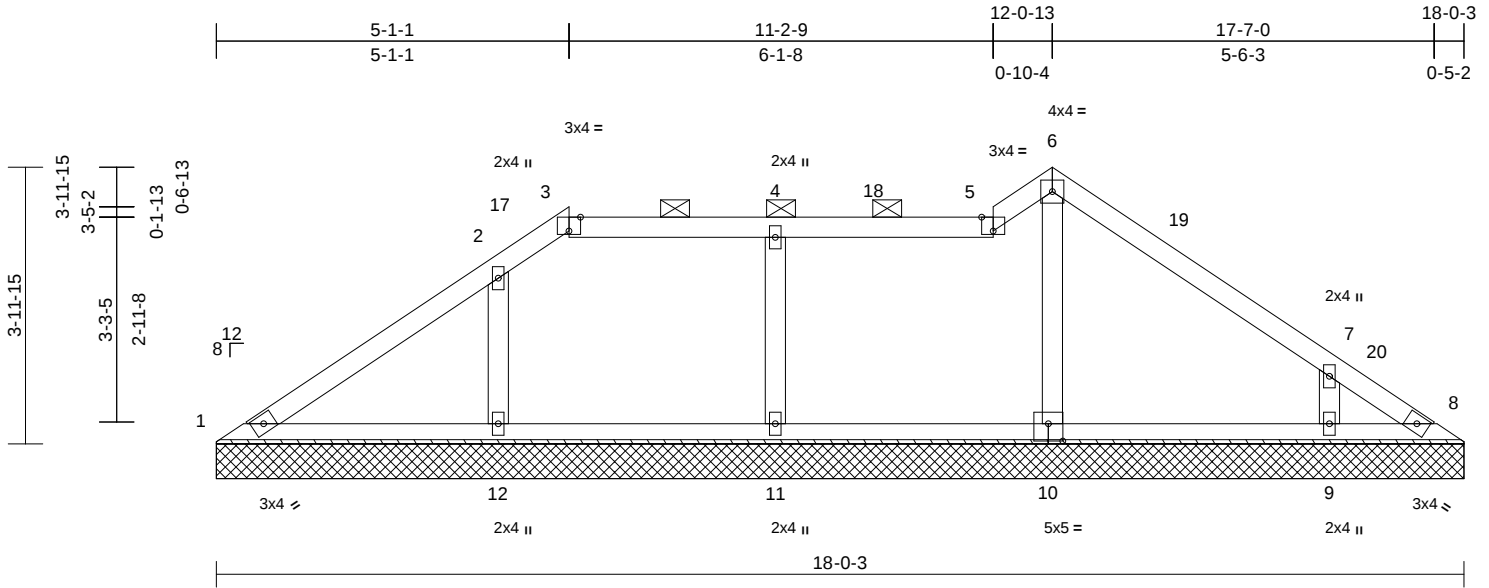
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-A	VB01	Valley	1	1	176118492
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:24
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Page: 1



Scale = 1:33.3

Plate Offsets (X, Y): [3:0-2-0,Edge], [5:0-2-0,Edge], [10:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	8	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							
Weight: 69 lb FT = 25%											

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, except
2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=18-0-3, 8=18-0-3, 9=18-0-3,
10=18-0-3, 11=18-0-3, 12=18-0-3
Max Horiz 1=91 (LC 9)
Max Uplift 8=-28 (LC 11), 9=-84 (LC 13),
10=-10 (LC 12), 11=-44 (LC 8),
12=-78 (LC 12)
Max Grav 1=113 (LC 20), 8=48 (LC 13),
9=304 (LC 20), 10=337 (LC 1),
11=321 (LC 25), 12=386 (LC 25)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-150/139, 2-3=-50/50, 3-4=-20/47,
4-5=-20/47, 5-6=-18/106, 6-7=-81/92,
7-8=-124/118
BOT CHORD 1-12=-83/142, 11-12=-83/96, 9-11=-83/96,
8-9=-80/94
WEBS 6-10=-251/106, 4-11=-250/124,
2-12=-279/158, 7-9=-251/196

NOTES

1) 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) 0-0-9 to 4-5-6, Interior (1) 4-5-6 to 5-1-10, Exterior(2R) 5-1-10 to 9-6-7, Interior (1) 9-6-7 to 12-1-6, Exterior(2R) 12-1-6 to 16-6-3, Interior (1) 16-6-3 to 18-0-12 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.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 8, 10 lb uplift at joint 10, 44 lb uplift at joint 11, 78 lb uplift at joint 12 and 84 lb uplift at joint 9.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 5, 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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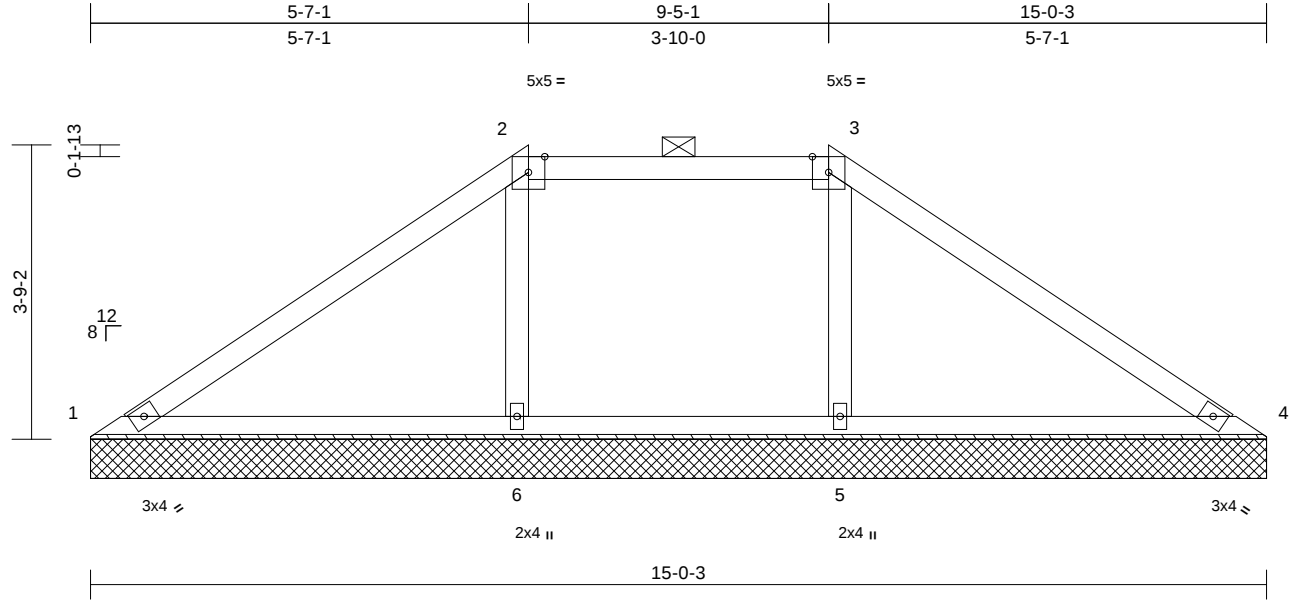
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	176118493
250919-A	VB02	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:24

Page: 1

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	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	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 56 lb	FT = 25%

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, except 2-0-0 oc purlins (10-0-0 max.): 2-3.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	1=15-0-3, 4=15-0-3, 5=15-0-3, 6=15-0-3
Max Horiz	1=-84 (LC 10)
Max Uplift	1=-18 (LC 26), 4=-18 (LC 25), 5=-56 (LC 13), 6=-67 (LC 12)
Max Grav	1=73 (LC 25), 4=73 (LC 26), 5=569 (LC 1), 6=569 (LC 1)

FORCES

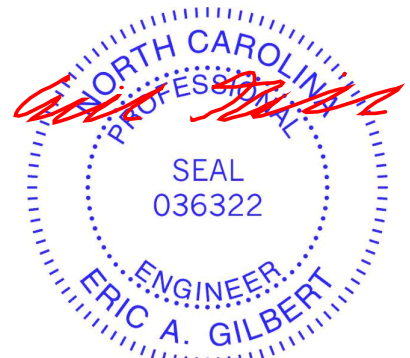
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-144/407, 2-3=-25/249, 3-4=-139/407
BOT CHORD	1-6=-299/192, 5-6=-283/184, 4-5=-299/194
WEBS	2-6=-449/225, 3-5=-449/210

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) 0-0-9 to 4-5-6, Interior (1) 4-5-6 to 5-7-10, Exterior(2E) 5-7-10 to 9-5-10, Exterior(2R) 9-5-10 to 14-1-12, Interior (1) 14-1-12 to 15-0-12 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.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1, 18 lb uplift at joint 4, 67 lb uplift at joint 6 and 56 lb uplift at joint 5.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 5, 2025

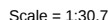
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDF=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-15 to 4-10-12, Interior (1) 4-10-12 to 6-0-10, Exterior(2E) 6-0-10 to 11-7-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.

LOAD CASE(S) Standard



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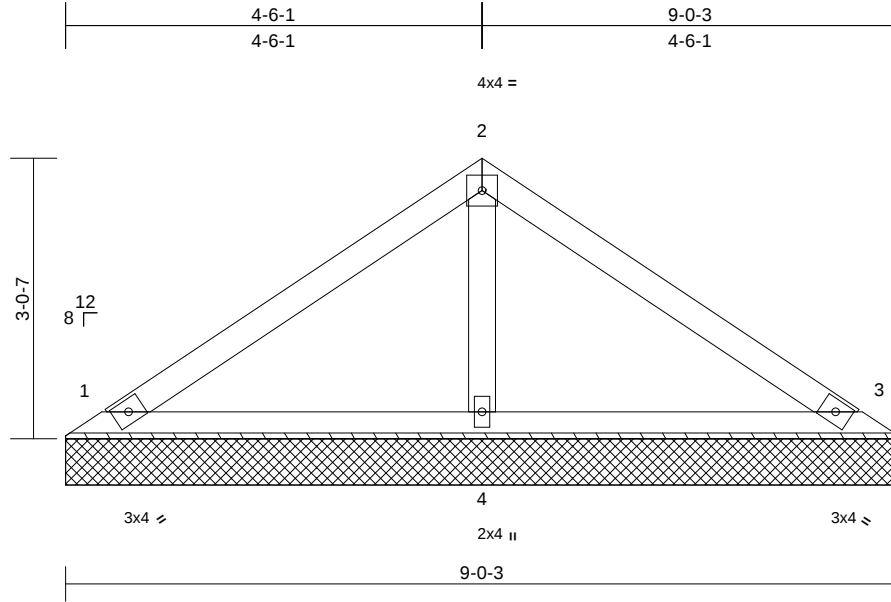
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	I76118495
250919-A	VB04	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:24

Page: 1

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Scale = 1:24.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 32 lb FT = 25%

LUMBER

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

BRACING

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

REACTIONS

(size) 1=9-0-3, 3=9-0-3, 4=9-0-3
Max Horiz 1=-65 (LC 8)
Max Uplift 1=-20 (LC 12), 3=-26 (LC 13)
Max Grav 1=161 (LC 1), 3=161 (LC 1), 4=327 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

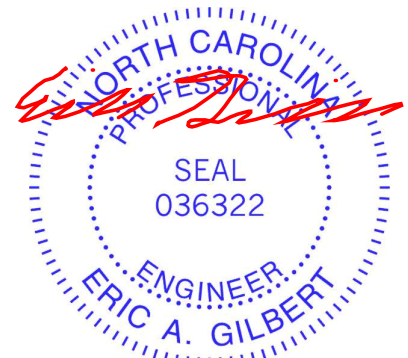
TOP CHORD 1-2=-118/70, 2-3=-112/73
BOT CHORD 1-4=-12/51, 3-4=-12/51
WEBS 2-4=-207/122

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
- 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 requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1 and 26 lb uplift at joint 3.

LOAD CASE(S) Standard



September 5,2025

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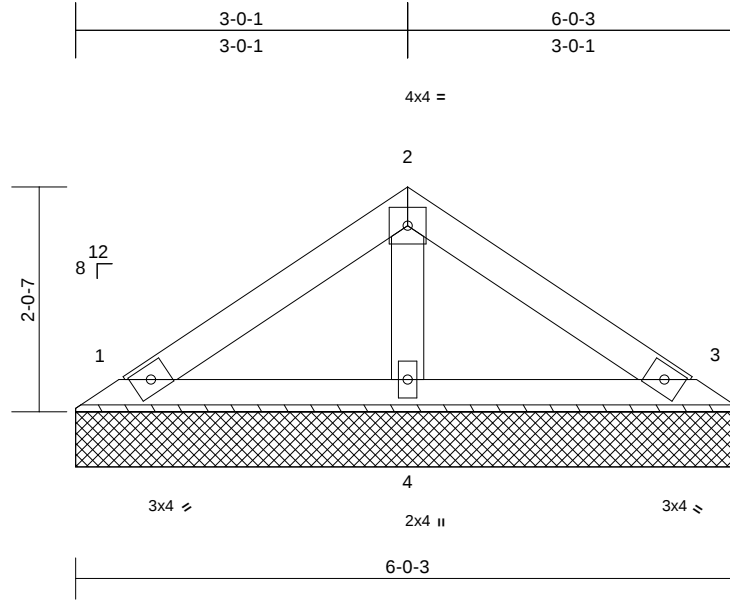
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	I76118496
250919-A	VB05	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:24
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Page: 1



Scale = 1:20.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 20 lb FT = 25%

LUMBER

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

BRACING

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

REACTIONS

(size)	1=6-0-3, 3=6-0-3, 4=6-0-3
Max Horiz	1=-41 (LC 10)
Max Uplift	1=-18 (LC 12), 3=-22 (LC 13)
Max Grav	1=111 (LC 1), 3=111 (LC 1), 4=187 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

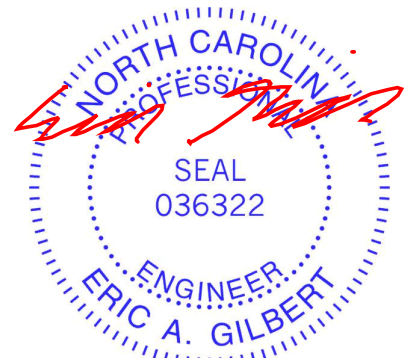
TOP CHORD	1-2=-68/55, 2-3=-62/55
BOT CHORD	1-4=-8/30, 3-4=-8/30
WEBS	2-4=-123/97

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
- 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 requires continuous bottom chord bearing.
- Gable studs spaced at 4'-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'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 22 lb uplift at joint 3.

LOAD CASE(S) Standard



September 5, 2025

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

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

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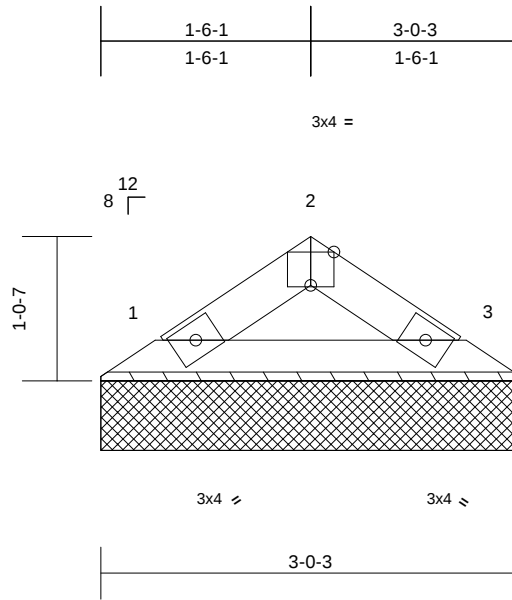
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-A	VB06	Valley	1	1	Job Reference (optional)

I76118497

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:16.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 8 lb FT = 25%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)

1=3-0-3, 3=3-0-3
Max Horiz 1=-17 (LC 10)
Max Uplift 1=-4 (LC 12), 3=-4 (LC 13)
Max Grav 1=85 (LC 1), 3=85 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-71/62, 2-3=-71/62
BOT CHORD 1-3=-22/47

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
- 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 requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1 and 4 lb uplift at joint 3.

LOAD CASE(S) Standard



September 5, 2025

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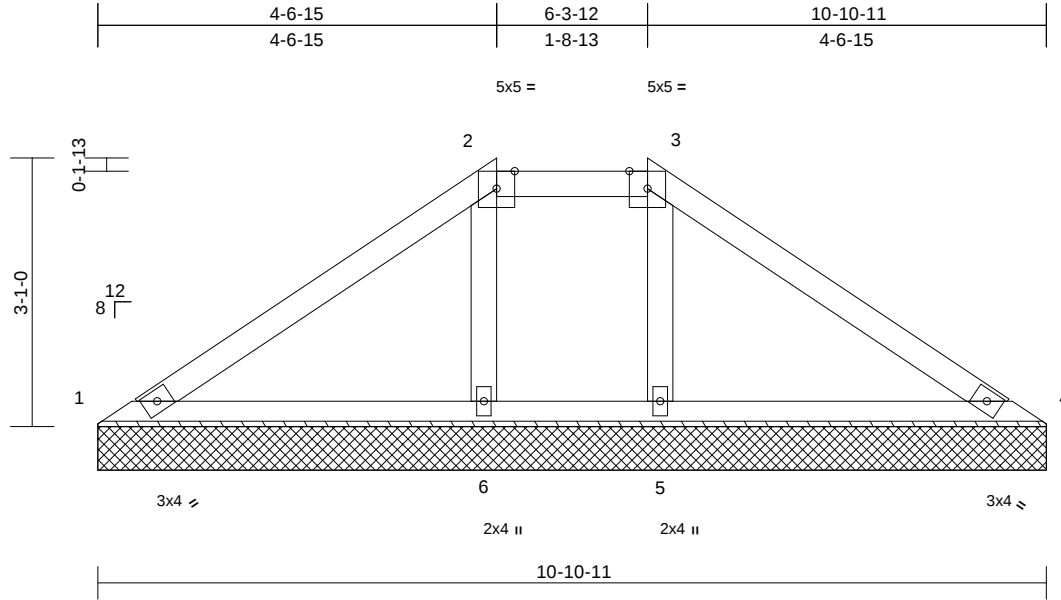
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	I76118498
250919-A	VD01	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 41 lb	FT = 25%

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, except
2-0-0 oc purlins (10-0-0 max.): 2-3.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=10-10-11, 4=10-10-11,
5=10-10-11, 6=10-10-11
Max Horiz 1=68 (LC 9)
Max Uplift 1=-3 (LC 26), 4=-9 (LC 8), 5=-51 (LC 13), 6=-60 (LC 12)
Max Grav 1=68 (LC 25), 4=68 (LC 26), 5=406 (LC 26), 6=407 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension

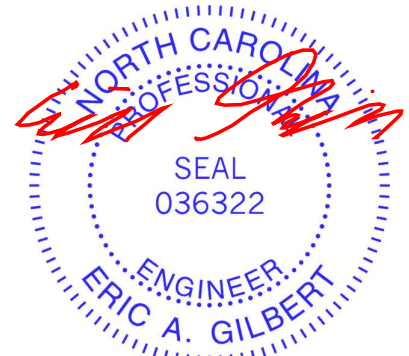
TOP CHORD 1-2=-117/303, 2-3=-13/181, 3-4=-108/303
BOT CHORD 1-6=-201/162, 5-6=-188/152, 4-5=-201/161
WEBS 3-5=-306/155, 2-6=-306/175

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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 1, 9 lb uplift at joint 4, 51 lb uplift at joint 5 and 60 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 5, 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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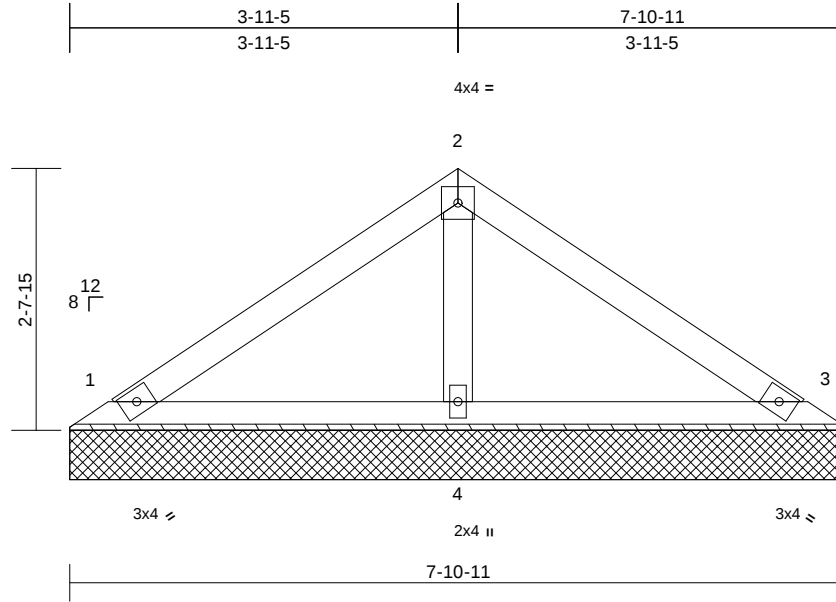
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	I76118499
250919-A	VD02	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:25

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Scale = 1:23.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 27 lb FT = 25%

LUMBER

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

BRACING

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

REACTIONS	(size)	1=7-10-11, 3=7-10-11, 4=7-10-11
	Max Horiz	1=56 (LC 11)
	Max Uplift	1=-24 (LC 12), 3=-29 (LC 13)
	Max Grav	1=152 (LC 1), 3=152 (LC 1), 4=255 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-92/67, 2-3=-84/67
BOT CHORD	1-4=-10/40, 3-4=-10/40
WEBS	2-4=-168/112

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
- 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 requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1 and 29 lb uplift at joint 3.

LOAD CASE(S) Standard



September 5,2025

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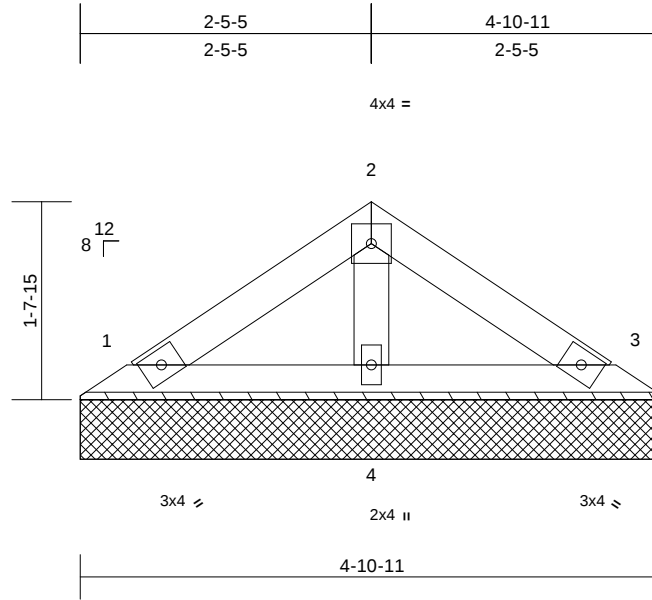
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek	I76118500
250919-A	VD03	Valley	1	1	Job Reference (optional)	

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 16 lb FT = 25%

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 4-11-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=4-10-11, 3=4-10-11, 4=4-10-11
Max Horiz 1=-32 (LC 8)
Max Uplift 1=-14 (LC 12), 3=-17 (LC 13)
Max Grav 1=87 (LC 1), 3=87 (LC 1), 4=146 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-53/45, 2-3=-48/45
BOT CHORD 1-4=-6/23, 3-4=-6/23
WEBS 2-4=-96/80

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
- 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 requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1 and 17 lb uplift at joint 3.

LOAD CASE(S) Standard



September 5,2025

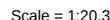
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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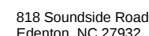
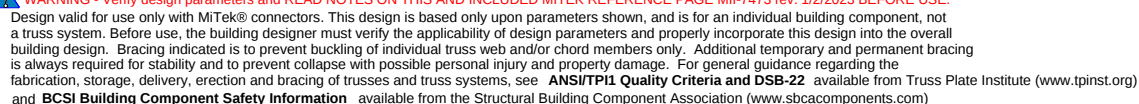
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 6 lb	FT = 25%

- 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4'-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'-06" tall by 2'-00" wide will fit between the bottom chord and any other members.

LOAD CASE(S) Standard



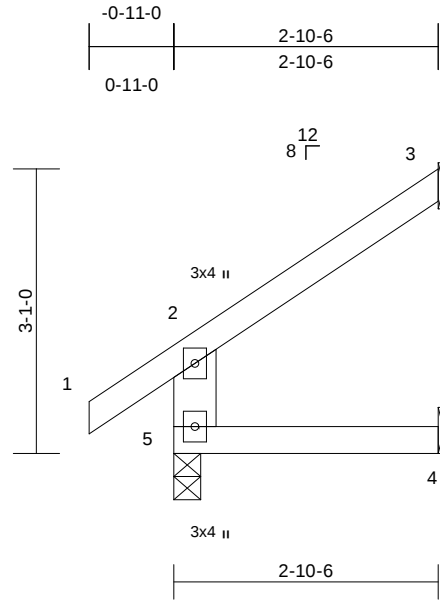
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-A	X01	Jack-Open	2	1	I76118502
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:25

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Scale = 1:25

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	0.01	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MR							Weight: 13 lb	FT = 25%

LUMBER

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

BRACING

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

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8
Max Horiz 5=72 (LC 9)
Max Uplift 3=-48 (LC 12), 4=-4 (LC 12)
Max Grav 3=75 (LC 19), 4=47 (LC 3), 5=187 (LC 1)

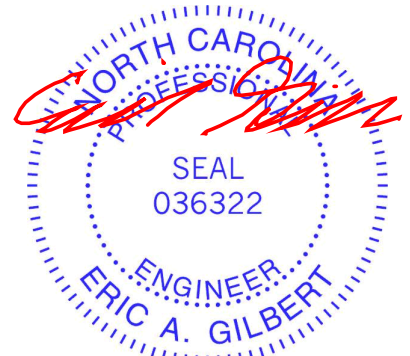
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-161/130, 1-2=0/38, 2-3=-85/50
BOT CHORD 4-5=0/0

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; end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 3 and 4 lb uplift at joint 4.

LOAD CASE(S) Standard



September 5, 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 50 Duncan's Creek
T250919-A	X01X	Jack-Open	1	1	Job Reference (optional)

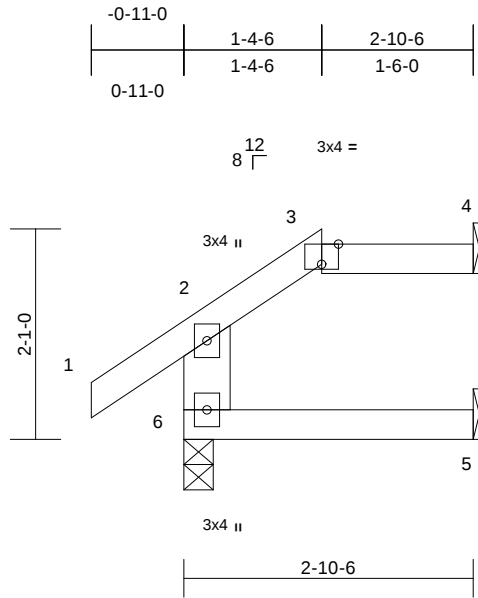
I76118503

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:25

Page: 1

ID:j1iiZnoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRCDoi7J4zJC?i



Scale = 1:22.8

Plate Offsets (X, Y): [3:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	5-6	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	5-6	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	4	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MR		Wind(LL)	0.00	5-6	>999	240	Weight: 13 lb FT = 25%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-10-6 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.

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

REACTIONS (size) 4= Mechanical, 5= Mechanical,
6=0-3-8
Max Horiz 6=47 (LC 9)
Max Uplift 4=-27 (LC 9), 6=-11 (LC 12)
Max Grav 4=63 (LC 1), 5=47 (LC 3), 6=187 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

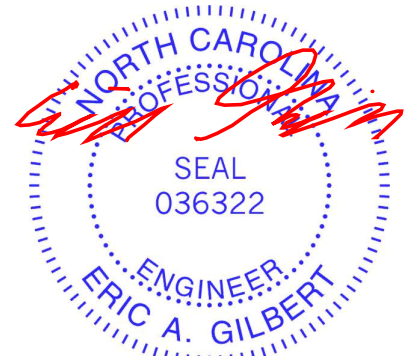
TOP CHORD 2-6=-160/175, 1-2=0/38, 2-3=-47/10, 3-4=-2/3
BOT CHORD 5-6=0/0

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) -0-11-0 to 2-9-10 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 6 and 27 lb uplift at joint 4.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 5,2025

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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

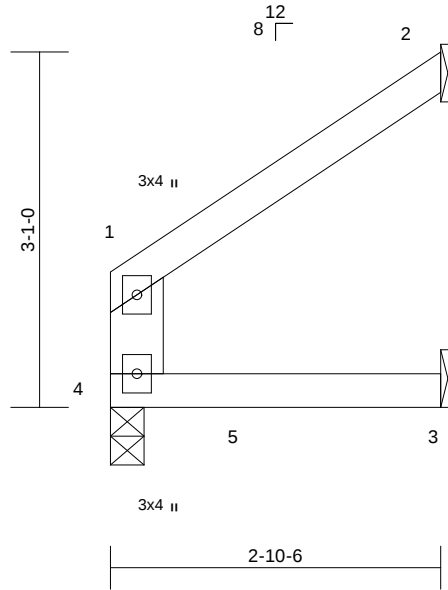
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-A	X02	Jack-Open Girder	1	2	I76118504
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:01:25

Page: 1

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Scale = 1:20

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.01	3-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.02	3-4	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MR		Wind(LL)	0.01	3-4	>999	240	Weight: 23 lb	FT = 25%

LUMBER

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

BRACING

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

REACTIONS	(size)	2= Mechanical, 3= Mechanical, 4=0-3-8
	Max Horiz	4=60 (LC 5)
	Max Uplift	2=-50 (LC 8), 3=-10 (LC 8)
	Max Grav	2=129 (LC 15), 3=199 (LC 15), 4=536 (LC 2)

FORCES	(lb) - Maximum Compression/Maximum Tension
---------------	--

TOP CHORD	1-4=-43/24, 1-2=-43/64
BOT CHORD	3-4=0/0

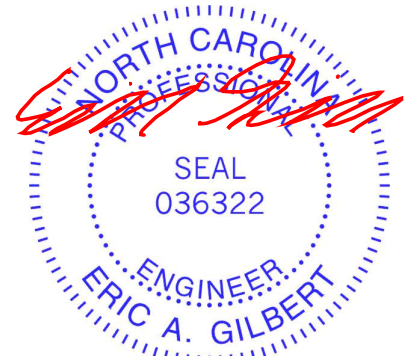
NOTES

- 2-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-7-0 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); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 2 and 10 lb uplift at joint 3.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 660 lb down and 32 lb up at 1-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-559 (F)



September 5, 2025

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

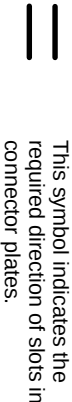
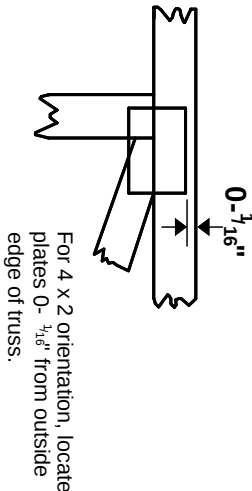
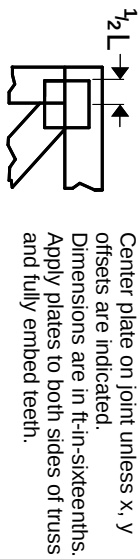
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

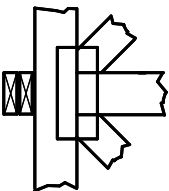
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

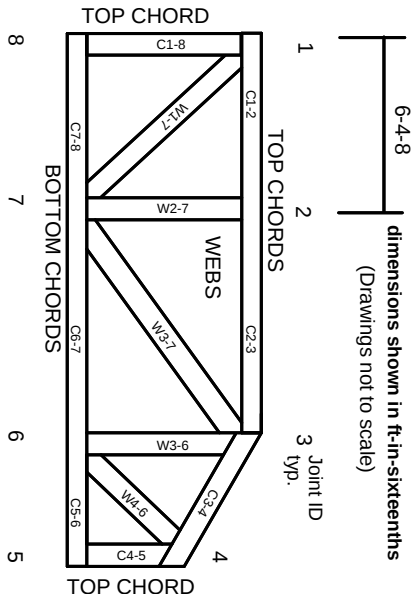


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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.

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

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: 250919-B
Lot 50 Duncan's Creek

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

Pages or sheets covered by this seal: I76118709 thru I76118732

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

North Carolina COA: C-0844



September 5, 2025

Gilbert, Eric

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

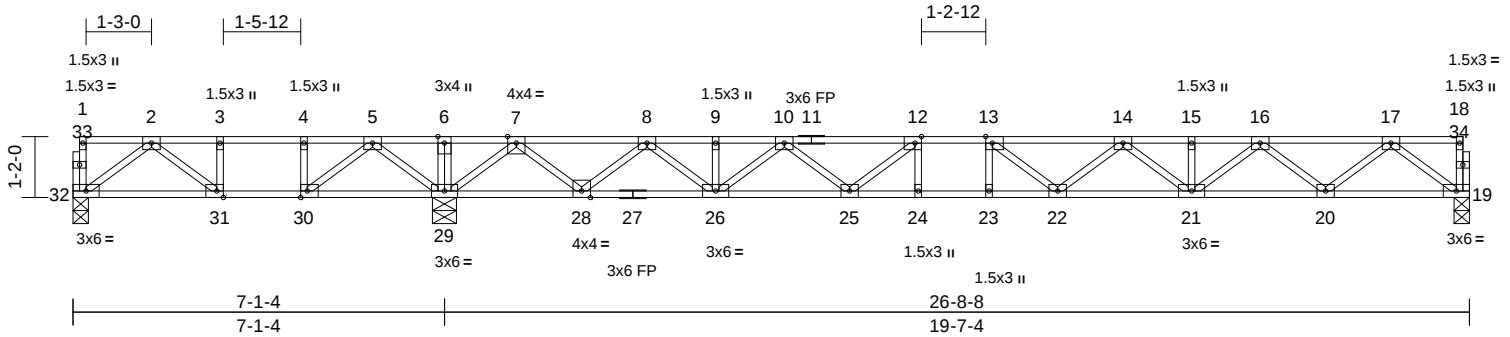
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F01	Floor	4	1	176118709
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:05

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Scale = 1:44.1

Plate Offsets (X, Y): [12:0-1-8,Edge], [13:0-1-8,Edge], [30:0-1-8,Edge], [31:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.22	22-23	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.30	22-23	>774	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.04	19	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 136 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

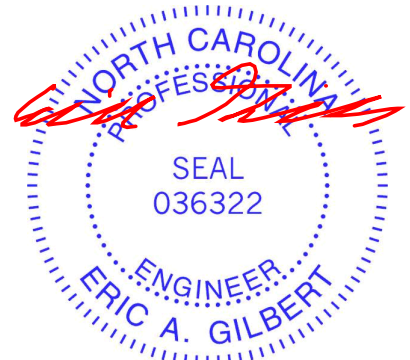
REACTIONS (size) 19=0-3-8, 29=0-5-8, 32=0-3-8
Max Uplift 32=-159 (LC 4)
Max Grav 19=630 (LC 7), 29=1290 (LC 1), 32=180 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-32=-29/14, 18-19=-24/0, 1-2=-2/1,
2-3=-180/642, 3-4=-180/642, 4-5=-180/642,
5-6=0/1606, 6-7=0/1606, 7-8=-248/24,
8-9=-1510/0, 9-10=-1510/0, 10-12=-2269/0,
12-13=-2588/0, 13-14=-2570/0,
14-15=-2200/0, 15-16=-2200/0,
16-17=-1332/0, 17-18=-1/0
BOT CHORD 31-32=-233/180, 30-31=-642/180,
29-30=-1149/0, 28-29=-616/0, 26-28=0/957,
25-26=0/1984, 24-25=0/2588, 23-24=0/2588,
22-23=0/2588, 21-22=0/2497, 20-21=0/1849,
19-20=0/791
WEBS 6-29=-126/0, 2-32=-224/291, 2-31=-522/0,
3-31=-18/232, 5-29=-717/0, 5-30=0/793,
4-30=-361/0, 17-19=-991/0, 17-20=0/704,
16-20=-673/0, 16-21=0/448, 15-21=-30/0,
14-21=-380/0, 14-22=-48/214,
13-22=-238/189, 13-23=-166/69,
7-29=-1243/0, 7-28=0/972, 8-28=-936/0,
8-26=0/719, 9-26=-46/0, 10-26=-615/0,
10-25=0/414, 12-25=-517/0, 12-24=-56/180

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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 32.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- LOAD CASE(S) Standard



September 5, 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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TRENCO
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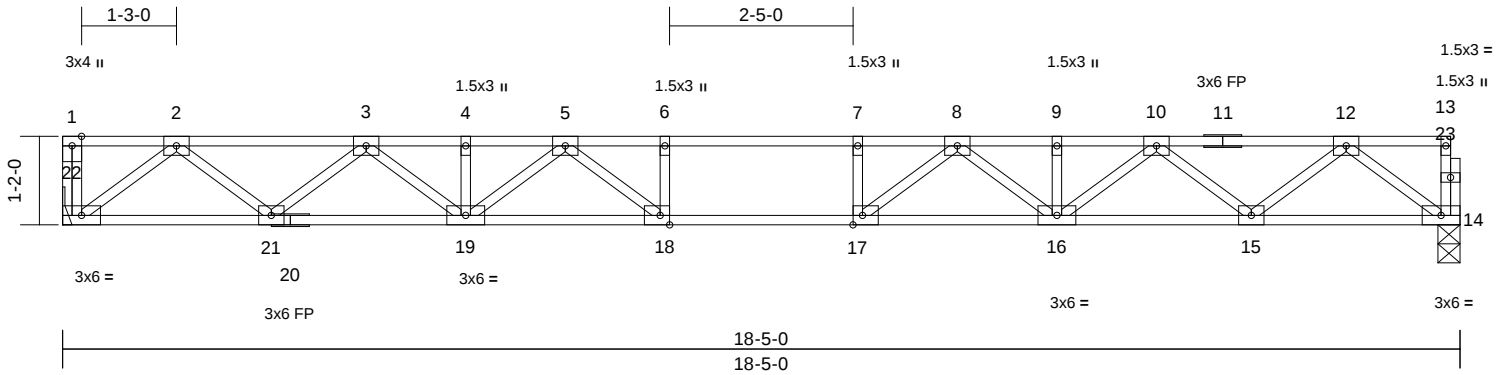
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F02	Floor	8	1	Job Reference (optional)
					I76118710

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:06
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Page: 1



Scale = 1:30.4

Plate Offsets (X, Y): [17:0-1-8,Edge], [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.21	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.29	17-18	>744	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.05	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 93 lb	FT = 20%F, 11%E

LUMBER

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

- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

BRACING

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

REACTIONS (size) 14=0-3-8, 22= Mechanical
Max Grav 14=662 (LC 1), 22=666 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-22=-26/0, 13-14=-24/0, 1-2=0/0,
2-3=-1411/0, 3-4=-2366/0, 4-5=-2366/0,
5-6=-2865/0, 6-7=-2865/0, 7-8=-2865/0,
8-9=-2366/0, 9-10=-2366/0, 10-12=-1410/0,
12-13=-1/0

BOT CHORD 21-22=0/833, 19-21=0/1965, 18-19=0/2660,
17-18=0/2865, 16-17=0/2660, 15-16=0/1965,
14-15=0/833

WEBS 2-22=-1046/0, 2-21=0/751, 3-21=-722/0,
3-19=0/512, 4-19=-69/0, 5-19=-374/0,
5-18=-22/499, 6-18=-234/0, 12-14=-1043/0,
12-15=0/752, 10-15=-722/0, 10-16=0/512,
9-16=-69/0, 8-16=-374/0, 8-17=-22/499,
7-17=-234/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 (=) MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.



September 5, 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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ENGINEERING BY
TRENCO
A MiTek Affiliate

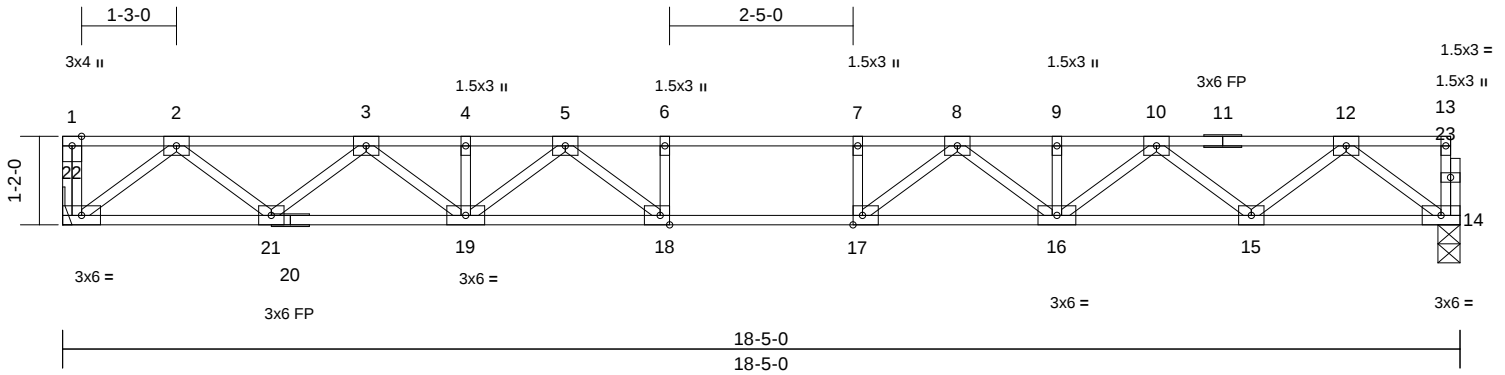
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F03	FLOOR	1	1	I76118711
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:07
ID:j1iiznoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:30.4

Plate Offsets (X, Y): [17:0-1-8,Edge], [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.21	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.29	17-18	>744	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.05	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 93 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 14=0-3-8, 22= Mechanical
Max Grav 14=662 (LC 1), 22=666 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-22=-26/0, 13-14=-24/0, 1-2=0/0,
2-3=-1411/0, 3-4=-2366/0, 4-5=-2366/0,
5-6=-2865/0, 6-7=-2865/0, 7-8=-2865/0,
8-9=-2366/0, 9-10=-2366/0, 10-12=-1410/0,
12-13=-1/0
BOT CHORD 21-22=0/833, 19-21=0/1965, 18-19=0/2660,
17-18=0/2865, 16-17=0/2660, 15-16=0/1965,
14-15=0/833
WEBS 2-22=-1046/0, 2-21=0/751, 3-21=-722/0,
3-19=0/512, 4-19=-69/0, 5-19=-374/0,
5-18=-22/499, 6-18=-234/0, 12-14=-1043/0,
12-15=0/752, 10-15=-722/0, 10-16=0/512,
9-16=-69/0, 8-16=-374/0, 8-17=-22/499,
7-17=-234/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 (=) MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.

- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



September 5, 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)

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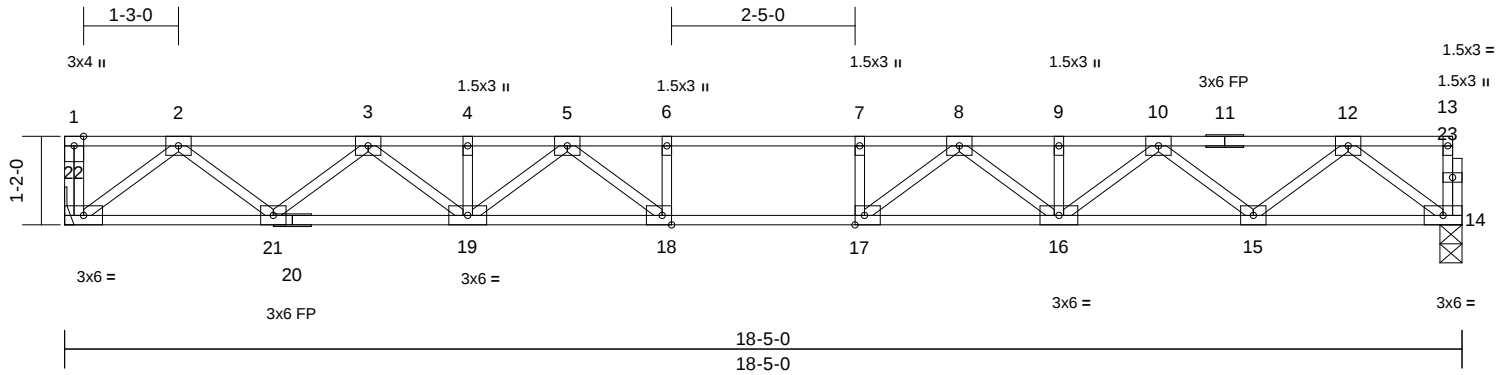
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F04	FLOOR	1	1	Job Reference (optional)
					I76118712

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:07
ID:j1iiznoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

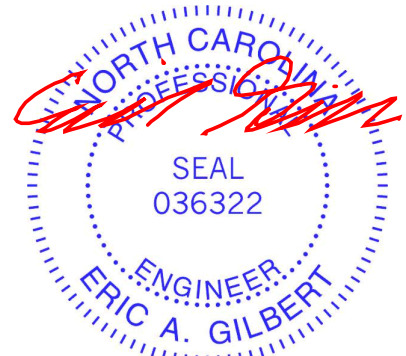


Scale = 1:30.4									
Plate Offsets (X, Y): [17:0-1-8,Edge], [18:0-1-8,Edge]									
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.21 17-18	>999	480
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.29 17-18	>744	360
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.05 14	n/a	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S					
					Weight: 93 lb		FT = 20%F, 11%E		

LUMBER	
TOP CHORD	2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (size) 14=0-3-8, 22= Mechanical	
Max Grav 14=662 (LC 1), 22=666 (LC 1)	
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-22=-26/0, 13-14=-24/0, 1-2=0/0, 2-3=-1411/0, 3-4=-2366/0, 4-5=-2366/0, 5-6=-2865/0, 6-7=-2865/0, 7-8=-2865/0, 8-9=-2366/0, 9-10=-2366/0, 10-12=-1410/0, 12-13=-1/0
BOT CHORD	21-22=0/833, 19-21=0/1965, 18-19=0/2660, 17-18=0/2865, 16-17=0/2660, 15-16=0/1965, 14-15=0/833
WEBS	2-22=-1046/0, 2-21=0/751, 3-21=-722/0, 3-19=0/512, 4-19=-69/0, 5-19=-374/0, 5-18=-22/499, 6-18=-234/0, 12-14=-1043/0, 12-15=0/752, 10-15=-722/0, 10-16=0/512, 9-16=-69/0, 8-16=-374/0, 8-17=-22/499, 7-17=-234/0

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x4 (=) MT20 unless otherwise indicated.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - Refer to girder(s) for truss to truss connections.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- LOAD CASE(S)** Standard



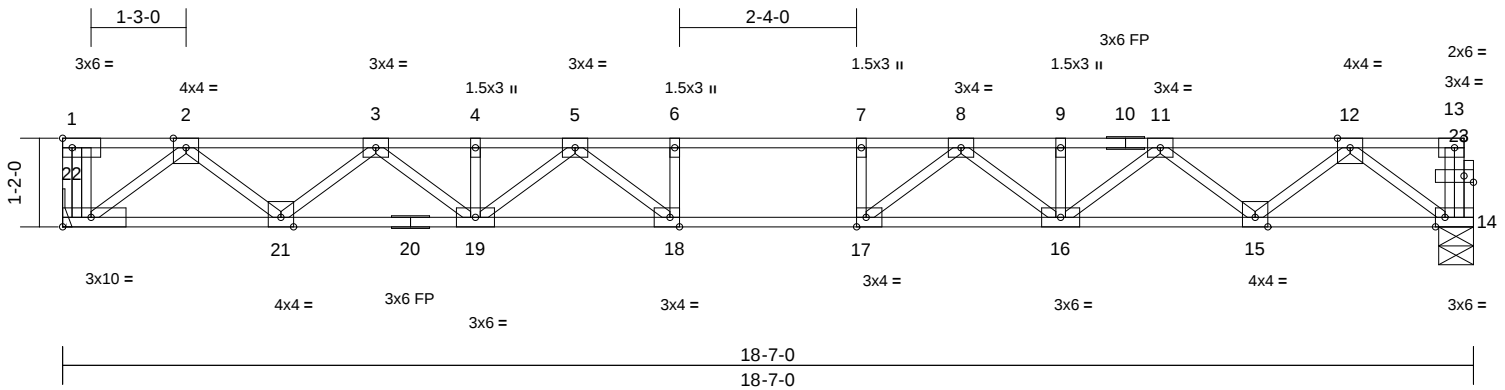
September 5,2025

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F05	FLOOR	3	1	Job Reference (optional)
					I76118713

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:07
ID:j1iiznoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:30.3

Plate Offsets (X, Y): [13:0-1-8,Edge], [14:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [23:0-1-8,0-1-0]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.26	17-18	>831	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.36	17-18	>604	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 96 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 14=0-5-8, 22= Mechanical
Max Grav 14=796 (LC 1), 22=806 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-22=-38/0, 13-14=-32/0, 1-2=0/0,
2-3=-1778/0, 3-4=-2915/0, 4-5=-2915/0,
5-6=-3501/0, 6-7=-3501/0, 7-8=-3501/0,
8-9=-2915/0, 9-11=-2915/0, 11-12=-1778/0,
12-13=-4/0

BOT CHORD 21-22=0/1090, 19-21=0/2439, 18-19=0/3263,
17-18=0/3501, 16-17=0/3262, 15-16=0/2439,
14-15=0/1089

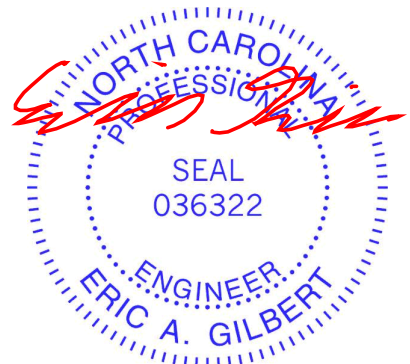
WEBS 12-14=-1321/0, 12-15=0/897, 11-15=-861/0,
11-16=0/608, 9-16=-82/0, 8-16=-444/0,
8-17=-38/591, 7-17=-276/0, 2-22=-1328/0,
2-21=0/896, 3-21=-859/0, 3-19=0/608,
4-19=-83/0, 5-19=-444/0, 5-18=-38/591,
6-18=-276/0

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 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



September 5, 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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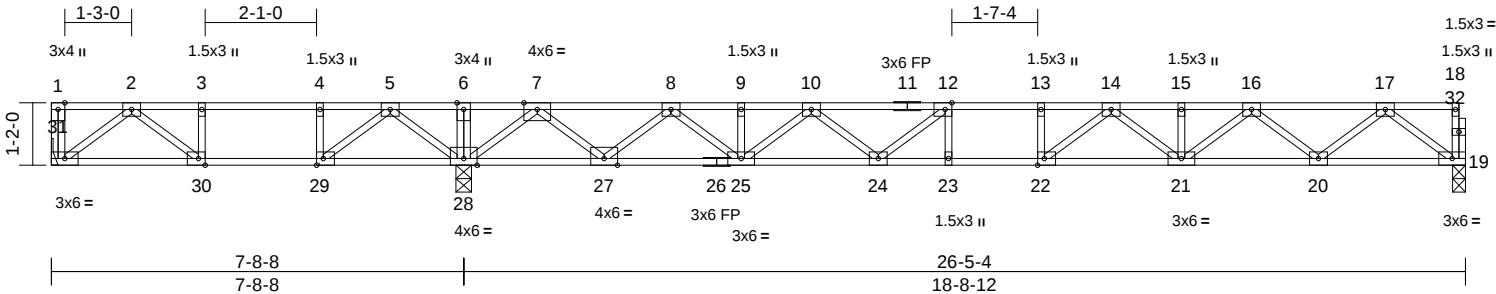
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F06	Floor	3	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:07
ID:j1iiZznoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:43.1

Plate Offsets (X, Y): [12:0-1-8,Edge], [22:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.23	22-23	>974	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.31	22-23	>717	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.05	19	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 134 lb	FT = 20%F, 11%E

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

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

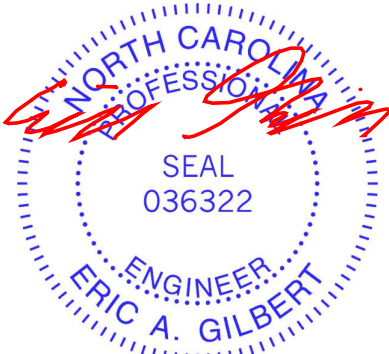
REACTIONS (size) 19=0-2-14, 28=0-3-8, 31= Mechanical
Max Uplift 31=-89 (LC 4)
Max Grav 19=744 (LC 7), 28=1416 (LC 1), 31=274 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-31=-40/12, 18-19=-28/0, 1-2=0/0, 2-3=-367/488, 3-4=-367/488, 4-5=-367/488, 5-6=0/1438, 6-7=0/1438, 7-8=-682/0, 8-9=-2034/0, 9-10=-2034/0, 10-12=-2789/0, 12-13=-3035/0, 13-14=-3035/0, 14-15=-2587/0, 15-16=-2587/0, 16-17=-1565/0, 17-18=-2/0
BOT CHORD 30-31=-149/284, 29-30=-488/367, 28-29=-969/13, 27-28=-329/0, 25-27=0/1454, 24-25=0/2533, 23-24=0/3035, 22-23=0/3035, 21-22=0/2883, 20-21=0/2171, 19-20=0/933
WEBS 6-28=-149/0, 2-31=-357/187, 2-30=-433/106, 5-28=-748/0, 5-29=0/835, 4-29=-393/0, 3-30=-76/195, 7-28=-1391/0, 7-27=0/1071, 8-27=-1026/0, 8-25=0/761, 9-25=-49/0, 10-25=-653/0, 10-24=0/422, 12-24=-504/0, 12-23=-95/128, 17-19=-1168/0, 17-20=0/824, 16-20=-788/0, 16-21=0/531, 15-21=-76/0, 14-21=-378/0, 14-22=-115/428, 13-22=-173/2

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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 31.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard



September 5,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

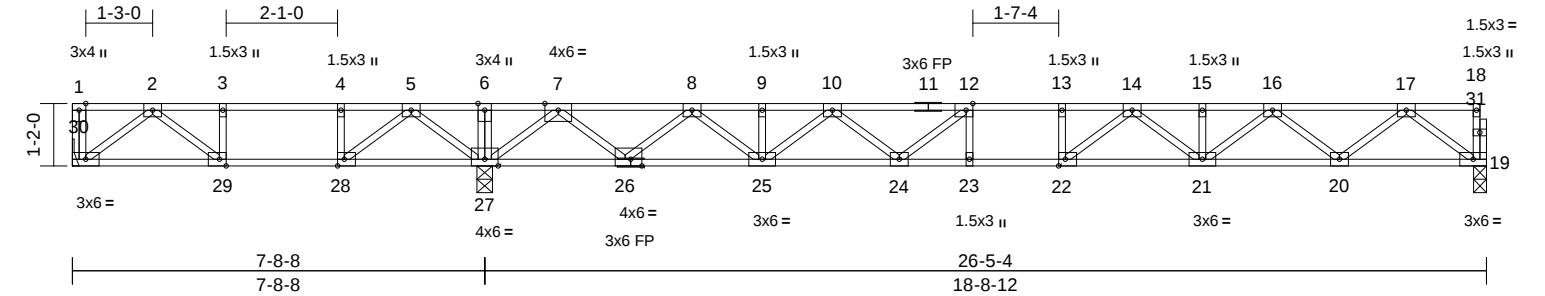
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F07	FLOOR	1	1	176118715
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:07
ID:j1iiZznoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:43.1									
Plate Offsets (X, Y): [12:0-1-8,Edge], [22:0-1-8,Edge], [26:0-2-8,Edge], [28:0-1-8,Edge], [29:0-1-8,Edge]									
Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.23	22-23	>974
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.31	22-23	>717
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.05	19	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S					
Weight: 134 lb FT = 20%F, 11%E									

LUMBER	
TOP CHORD	2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
REACTIONS (size)	
	19=0-2-14, 27=0-3-8, 30= Mechanical
Max Uplift	30=89 (LC 4)
Max Grav	19=744 (LC 7), 27=1416 (LC 1), 30=274 (LC 3)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-30=-40/12, 18-19=-28/0, 1-2=0/0, 2-3=-367/488, 3-4=-367/488, 4-5=-367/488, 5-6=0/1438, 6-7=0/1438, 7-8=-682/0, 8-9=-2034/0, 9-10=-2034/0, 10-12=-2789/0, 12-13=-3035/0, 13-14=-3035/0, 14-15=-2587/0, 15-16=-2587/0, 16-17=-1565/0, 17-18=-2/0
BOT CHORD	29-30=-149/284, 28-29=-488/367, 27-28=-969/13, 25-27=-329/1454, 24-25=0/2533, 23-24=0/3035, 22-23=0/3035, 21-22=0/2883, 20-21=0/2171, 19-20=0/933
WEBS	6-27=-149/0, 2-30=-357/187, 2-29=-433/106, 5-27=-748/0, 5-28=0/835, 4-28=-393/0, 3-29=-76/195, 7-27=-1391/0, 7-26=0/1071, 8-26=-1026/0, 8-25=0/761, 9-25=-49/0, 10-25=-653/0, 10-24=0/422, 12-24=-504/0, 12-23=-95/128, 17-19=-1168/0, 17-20=0/824, 16-20=-788/0, 16-21=0/531, 15-21=-76/0, 14-21=-378/0, 14-22=-115/428, 13-22=-173/2

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) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 30.
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- 8) CAUTION, Do not erect truss backwards.
- LOAD CASE(S) Standard



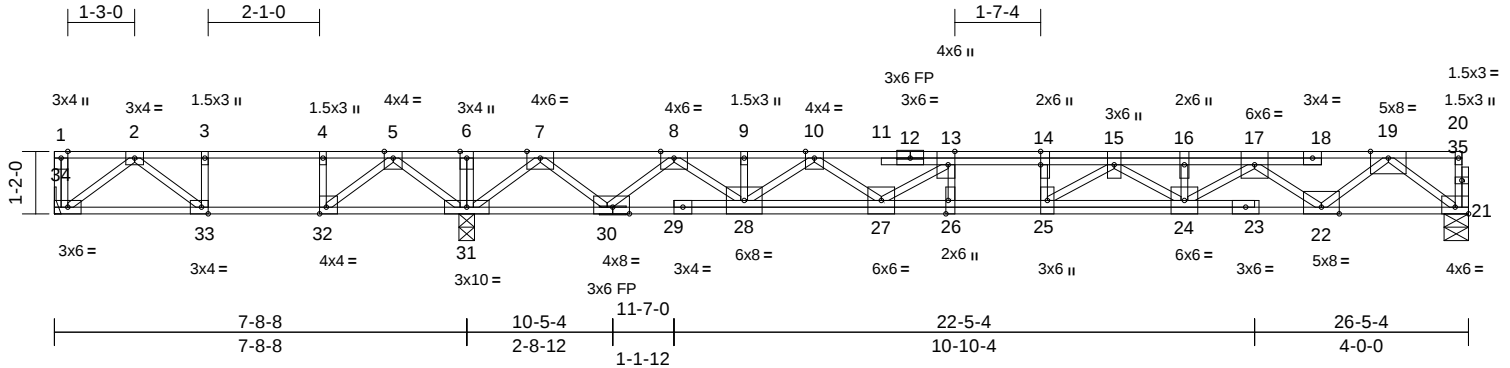
September 5,2025

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F08-GR	Floor Girder	1	1	176118716
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.30 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:07
ID:j1iiZznoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:43.1

Plate Offsets (X, Y): [13:0-3-0,Edge], [14:0-3-0,Edge], [21:Edge,0-1-8], [26:0-3-0,Edge], [30:0-3-12,Edge], [32:0-1-8,Edge], [33:0-1-8,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	0.75	Vert(LL)	-0.27	24-25	>838	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.36	24-25	>615	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.05	21	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 160 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 30-21:2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING

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

REACTIONS	(size) 21=0-5-8, 31=0-3-8, 34= Mechanical
	Max Uplift 34=108 (LC 4)
	Max Grav 21=1517 (LC 7), 31=1916 (LC 8), 34=341 (LC 3)

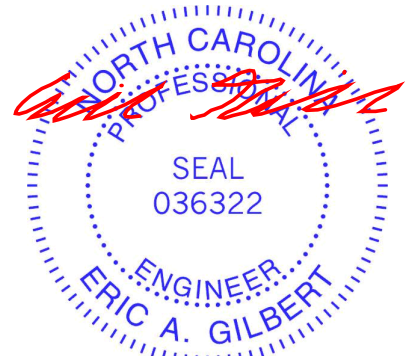
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-34=-55/0, 20-21=-55/0, 1-2=0/0, 2-3=-453/602, 3-4=-453/602, 4-5=-453/602, 5-6=0/1821, 6-7=0/1821, 7-8=-1219/0, 8-9=-3458/0, 9-10=-3458/0, 10-13=-5024/0, 13-14=-5898/0, 14-15=-5898/0, 15-16=-5783/0, 16-17=-5783/0, 17-19=-3444/0, 19-20=-3/0
BOT CHORD	33-34=-174/356, 32-33=-602/453, 31-32=-1202/3, 28-31=-297/2415, 27-28=0/4273, 26-27=0/5898, 25-26=0/5898, 24-25=0/6005, 22-24=0/5180, 21-22=0/1899
WEBS	6-31=-195/0, 2-34=-446/219, 2-33=-546/124, 3-33=-85/264, 5-31=-912/0, 5-32=0/1048, 4-32=-514/0, 19-21=-2378/0, 19-22=0/2005, 17-22=-2211/0, 17-24=0/742, 16-24=-161/0, 7-31=-1982/0, 7-30=0/1573, 8-30=-1578/0, 8-28=0/1323, 9-28=-126/0, 10-28=-1040/0, 10-27=0/989, 13-27=-1275/0, 15-24=-445/25, 15-25=-586/510, 14-25=-176/179, 13-26=-102/309

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 34.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 742 lb down at 22-6-0 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 (lb/ft)
Vert: 21-34=-10, 1-20=-100
Concentrated Loads (lb)
Vert: 17=-662 (B)



September 5, 2025

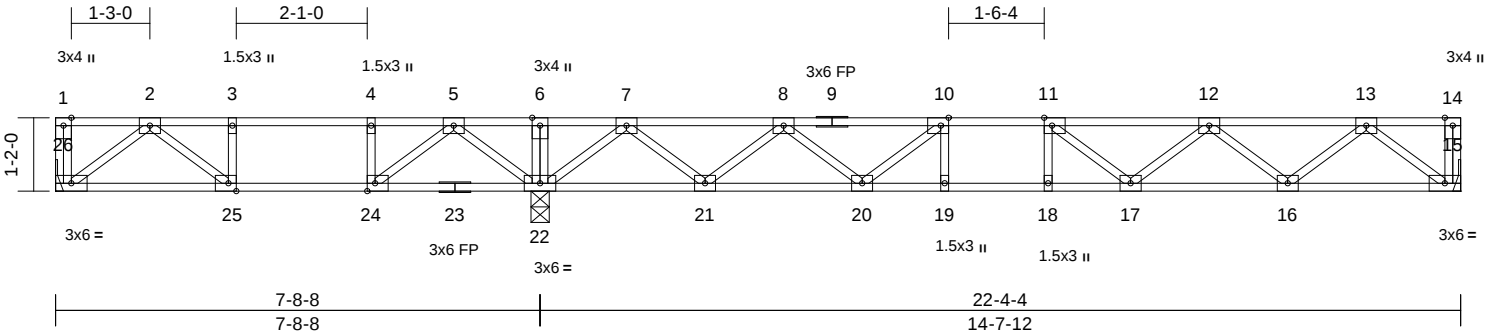
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F09	Floor	2	1	Job Reference (optional)
					I76118717



Scale = 1:36.7

Plate Offsets (X, Y): [10:0-1-8,Edge], [11:0-1-8,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.10	18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.14	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 112 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 15= Mechanical, 22=0-3-8, 26= Mechanical
Max Grav 15=597 (LC 7), 22=1120 (LC 1), 26=298 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-26=-43/1, 14-15=-36/0, 1-2=0/0, 2-3=-454/159, 3-4=-454/159, 4-5=-454/159, 5-6=0/781, 6-7=0/781, 7-8=-828/0, 8-10=-1632/0, 10-11=-1930/0, 11-12=-1798/0, 12-13=-1192/0, 13-14=0/0
BOT CHORD 25-26=-25/317, 24-25=-159/454, 22-24=-427/156, 21-22=-22/266, 20-21=0/1356, 19-20=0/1930, 18-19=0/1930, 17-18=0/1930, 16-17=0/1630, 15-16=0/729
WEBS 6-22=-129/0, 2-26=-398/31, 2-25=-171/175, 3-25=-106/81, 5-22=-594/0, 5-24=0/566, 4-24=-278/0, 13-15=-915/0, 13-16=0/602, 12-16=-570/0, 12-17=0/256, 11-17=-286/45, 11-18=-130/73, 7-22=-1054/0, 7-21=0/754, 8-21=-712/0, 8-20=0/389, 10-20=-477/0, 10-19=-52/150

- 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 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.
- LOAD CASE(S)** Standard



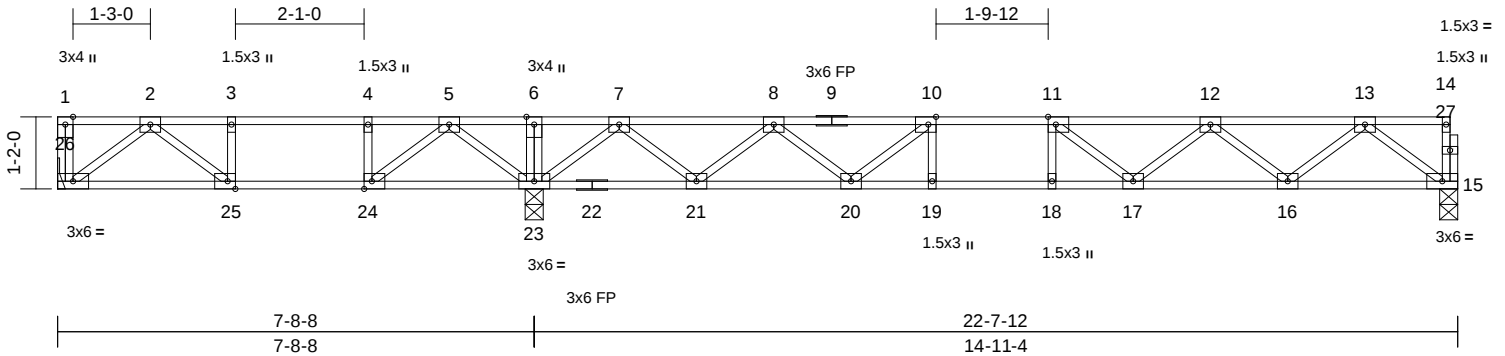
September 5,2025

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F10	Floor	4	1	Job Reference (optional)
					I76118718

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:07
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Page: 1



Scale = 1:37.3

Plate Offsets (X, Y): [10:0-1-8,Edge], [11:0-1-8,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.11	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.15	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 113 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 15=0-3-8, 23=0-3-8, 26= Mechanical
Max Grav 15=605 (LC 7), 23=1135 (LC 1), 26=298 (LC 3)

FORCES

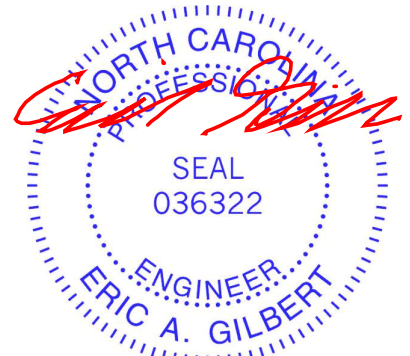
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-26=-43/1, 14-15=-34/0, 1-2=0/0, 2-3=-453/167, 3-4=-453/167, 4-5=-453/167, 5-6=0/793, 6-7=0/793, 7-8=-842/0, 8-10=-1679/0, 10-11=-2002/0, 11-12=-1858/0, 12-13=-1222/0, 13-14=-2/0
BOT CHORD 25-26=-28/317, 24-25=-167/453, 23-24=-441/154, 21-23=-20/264, 20-21=0/1384, 19-20=0/2002, 18-19=0/2002, 17-18=0/2002, 16-17=0/1675, 15-16=0/744
WEBS 6-23=-131/0, 2-26=-397/35, 2-25=-178/174, 5-23=-598/0, 5-24=0/572, 4-24=-281/0, 3-25=-106/84, 7-23=-1076/0, 7-21=0/772, 8-21=-730/0, 8-20=0/413, 10-20=-511/0, 10-19=-47/154, 13-15=-931/0, 13-16=0/622, 12-16=-590/0, 12-17=0/273, 11-17=-306/31, 11-18=-130/71

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 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



September 5, 2025

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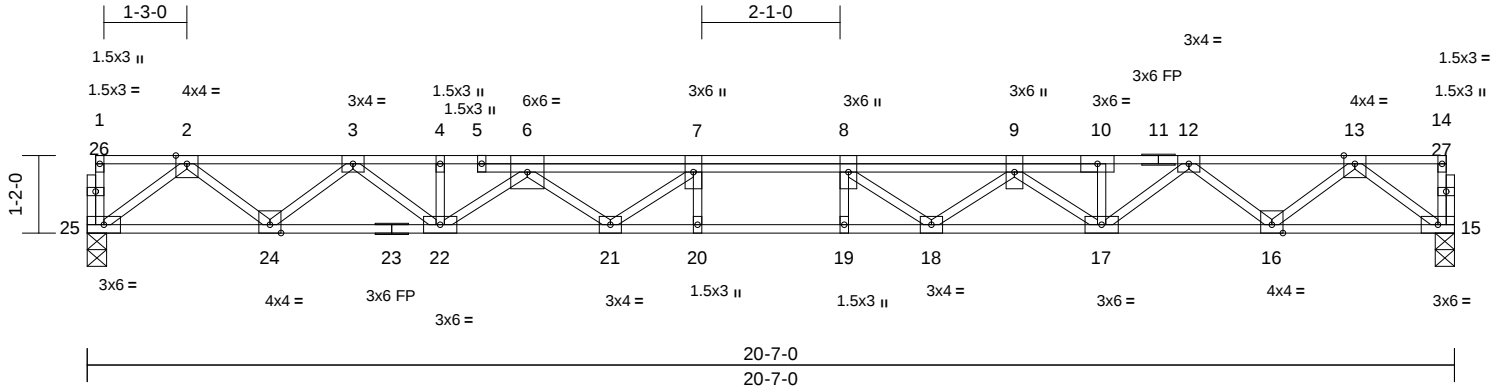
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F11	FLOOR	4	1	176118719
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:07
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Page: 1



Scale = 1:34.7

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	-0.27	19-20	>891	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.38	19-20	>647	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.07	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
											Weight: 116 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING

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

REACTIONS (size) 15=0-3-8, 25=0-3-8
Max Grav 15=741 (LC 1), 25=741 (LC 1)

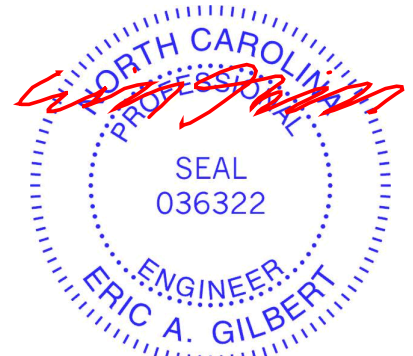
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-25=-25/0, 14-15=-24/0, 1-2=-1/0,
2-3=-1610/0, 3-4=-2746/0, 4-6=-2749/0,
6-7=-3566/0, 7-8=-3809/0, 8-9=-3575/0,
9-10=-2763/0, 10-12=-2759/0,
12-13=-1609/0, 13-14=-1/0
BOT CHORD 24-25=0/936, 22-24=0/2261, 21-22=0/3311,
20-21=0/3809, 19-20=0/3809, 18-19=0/3809,
17-18=0/3331, 16-17=0/2259, 15-16=0/937
WEBS 2-25=-1173/0, 2-24=0/877, 3-24=-847/0,
3-22=0/619, 13-15=-1174/0, 13-16=0/875,
12-16=-846/0, 12-17=0/638, 10-17=0/56,
4-22=0/62, 6-22=-705/0, 6-21=0/460,
7-21=-488/0, 9-17=-714/0, 9-18=0/454,
8-18=-483/9, 8-19=-35/54, 7-20=-37/53

NOTES

- Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



September 5, 2025

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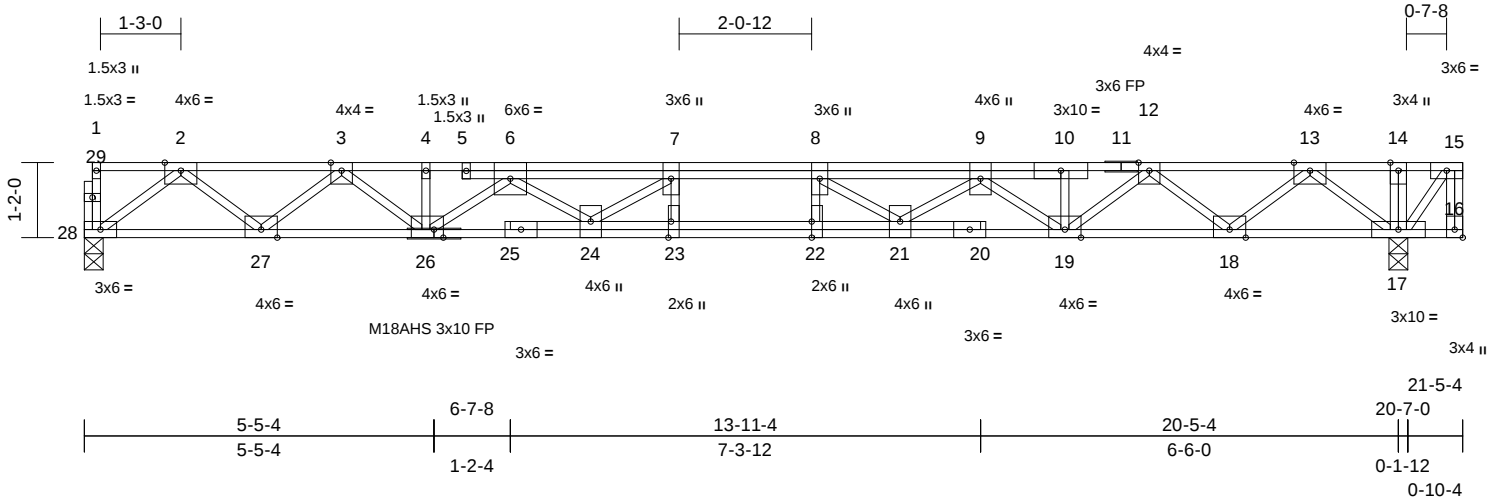
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F12	Floor	1	1	176118720
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:08

Page: 1

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Scale = 1:35.8

Plate Offsets (X, Y): [16:Edge,0-1-8], [22:0-3-0,Edge], [23:0-3-0,Edge], [26:0-1-12,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	0.31	Vert(LL)	-0.32	22-23	>762	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.43	22-23	>560	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.08	17	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
Weight: 134 lb											FT = 20%F, 11%E	

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 26-16:2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING

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

REACTIONS	(size) 17=0-3-8, 28=0-3-8
	Max Grav 17=2021 (LC 1), 28=1105 (LC 3)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-28=-37/0, 15-16=-9/0, 1-2=-2/0, 2-3=-2402/0, 3-4=-4059/0, 4-6=-4065/0, 6-7=-5513/0, 7-8=-6026/0, 8-9=-5498/0, 9-10=-4023/0, 10-12=-4016/0, 12-13=-2309/0, 13-14=0/333, 14-15=0/325
BOT CHORD	27-28=0/1397, 24-27=0/5011, 23-24=0/6026, 22-23=0/6026, 21-22=0/6026, 19-21=0/4995, 18-19=0/3280, 17-18=0/1342, 16-17=0/0
WEBS	14-17=-585/0, 2-28=-1750/0, 2-27=0/1308, 3-27=-1242/0, 3-26=0/897, 4-26=0/88, 13-17=-1746/0, 13-18=0/1347, 12-18=-1291/0, 12-19=0/961, 10-19=0/81, 9-19=-1223/0, 9-21=0/755, 8-21=-939/0, 6-26=-1187/0, 6-24=0/752, 7-24=-920/0, 7-23=-122/257, 8-22=-96/272, 15-17=-501/0

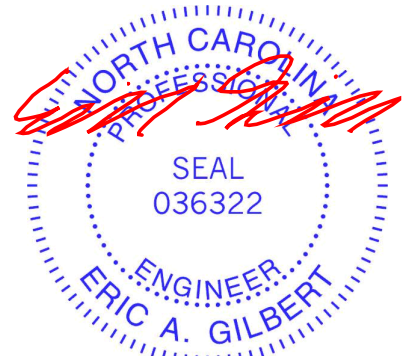
NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 26 = 8%
- Plates checked for a plus or minus 1 degree rotation about its center.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 16-28=-10, 1-14=-100, 14-15=-1000



September 5, 2025

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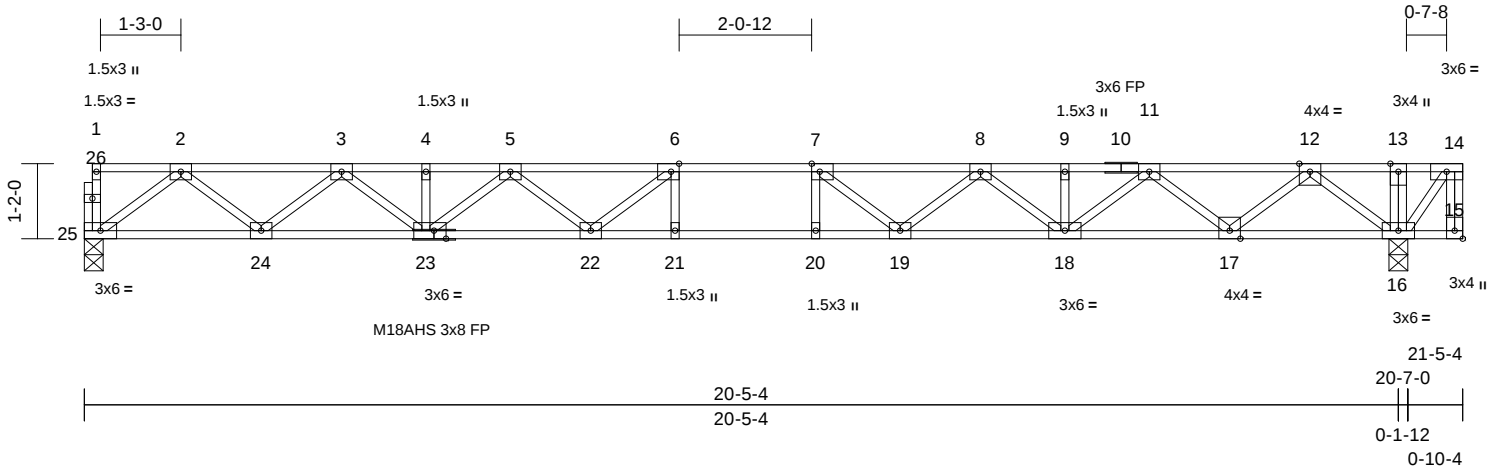
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F13	FLOOR	11	1	176118721
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:08

Page: 1

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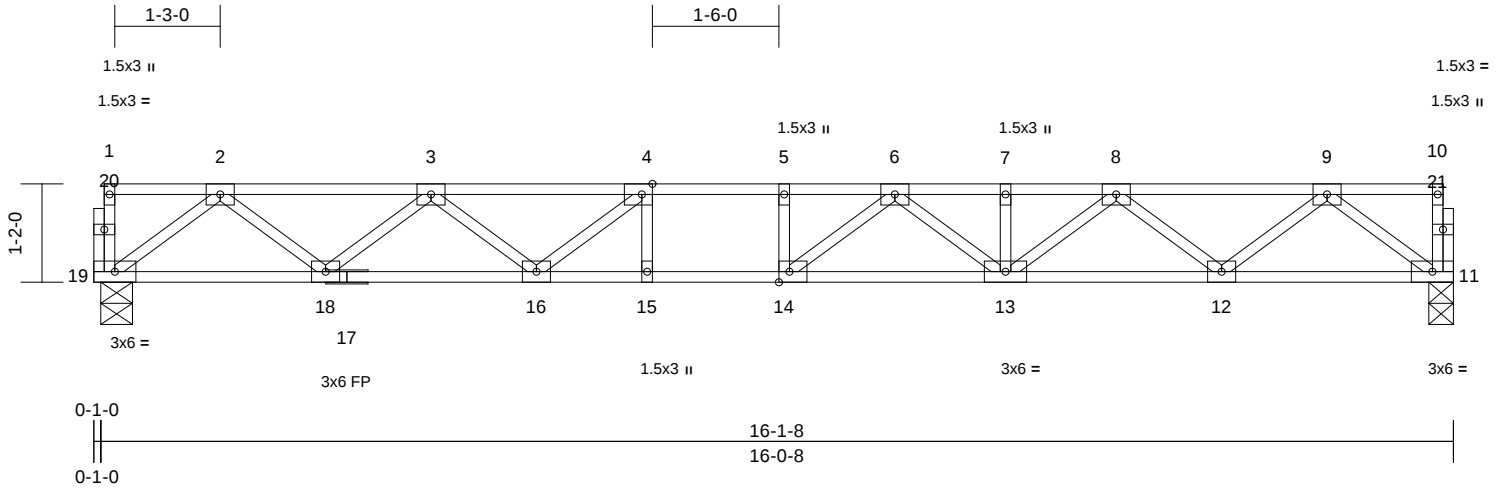


Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F14	Floor	3	1	176118722
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:08
ID:j1iiznoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.3									
Plate Offsets (X, Y): [4:0-1-8,Edge], [14:0-1-8,Edge]									
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in (loc)	l/defl	L/d
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.16 13-14	>999	480
TCDL	10.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.23 13-14	>844	360
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.04 11	n/a	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S					
								Weight: 82 lb	FT = 20%F, 11%E

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

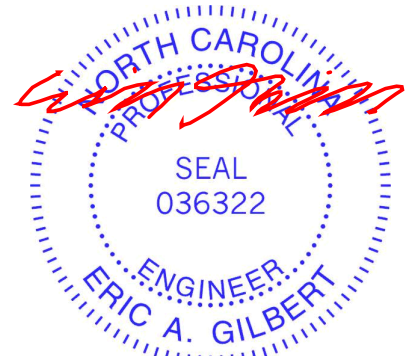
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 11=0-3-8, 19=0-4-8
Max Grav 11=693 (LC 1), 19=693 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-19=-33/0, 10-11=-28/0, 1-2=-2/0, 2-3=-1443/0, 3-4=-2295/0, 4-5=-2621/0, 5-6=-2621/0, 6-7=-2340/0, 7-8=-2340/0, 8-9=-1438/0, 9-10=-2/0
BOT CHORD 18-19=0/864, 16-18=0/1991, 15-16=0/2621, 14-15=0/2621, 13-14=0/2569, 12-13=0/1986, 11-12=0/866
WEBS 2-19=-1082/0, 2-18=0/753, 3-18=-714/0, 3-16=0/431, 4-16=-524/0, 9-11=-1084/0, 9-12=0/745, 8-12=-713/0, 8-13=0/452, 7-13=-69/0, 6-13=-293/0, 6-14=-156/328, 5-14=-134/18, 4-15=-63/140

- 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) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



September 5,2025

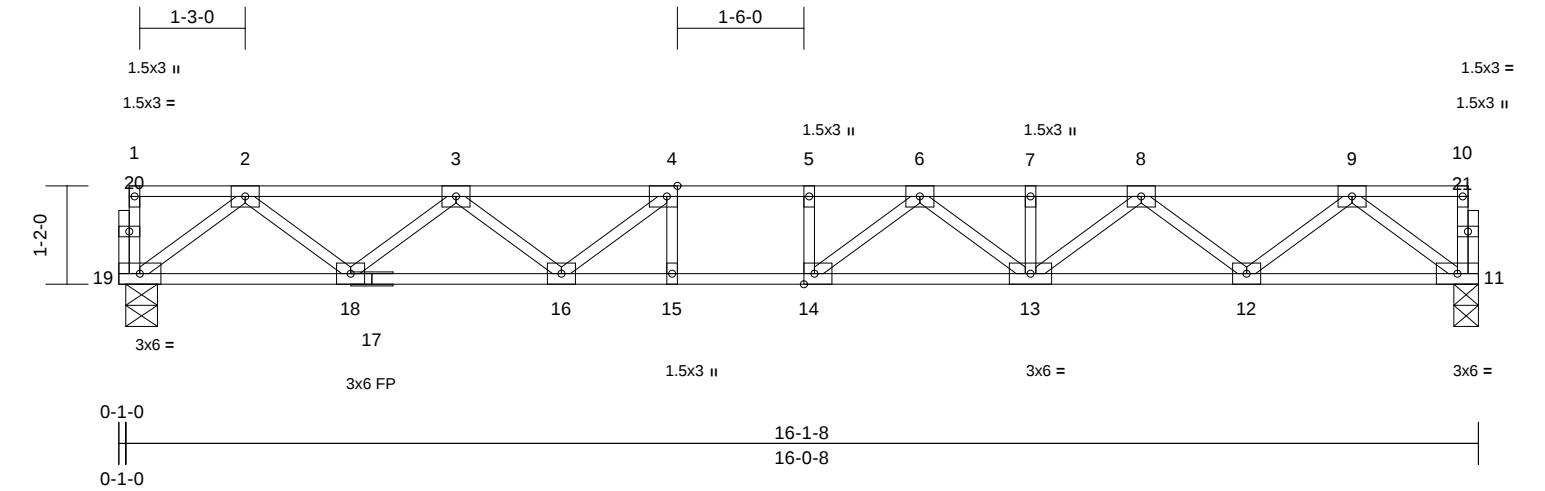
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 50 Duncan's Creek
250919-B	F15	Floor	1	1	I76118723
Job Reference (optional)					

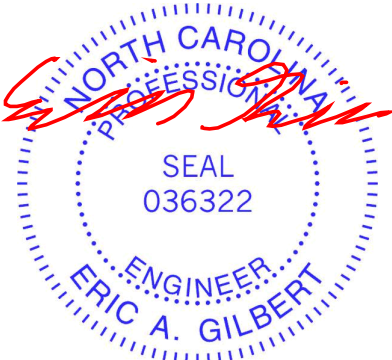


Scale = 1:27.3									
Plate Offsets (X, Y): [4:0-1-8,Edge], [14:0-1-8,Edge]									
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in (loc)	l/defl	L/d
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.16 13-14	>999	480
TCDL	10.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.23 13-14	>844	360
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.04 11	n/a	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S					
								Weight: 82 lb	FT = 20%F, 11%E

- LUMBER**
- TOP CHORD 2x4 SP No.1(flat)
- BOT CHORD 2x4 SP No.1(flat)
- WEBS 2x4 SP No.3(flat)
- OTHERS 2x4 SP No.3(flat)
- BRACING**
- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (size) 11=0-3-8, 19=0-4-8
- Max Grav 11=693 (LC 1), 19=693 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-19=-33/0, 10-11=-28/0, 1-2=-2/0, 2-3=-1443/0, 3-4=-2295/0, 4-5=-2621/0, 5-6=-2621/0, 6-7=-2340/0, 7-8=-2340/0, 8-9=-1438/0, 9-10=-2/0
- BOT CHORD 18-19=0/864, 16-18=0/1991, 15-16=0/2621, 14-15=0/2621, 13-14=0/2569, 12-13=0/1986, 11-12=0/866
- WEBS 2-19=-1082/0, 2-18=0/753, 3-18=-714/0, 3-16=0/431, 4-16=-524/0, 9-11=-1084/0, 9-12=0/745, 8-12=-713/0, 8-13=0/452, 7-13=-69/0, 6-13=-293/0, 6-14=-156/328, 5-14=-134/18, 4-15=-63/140

- 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 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



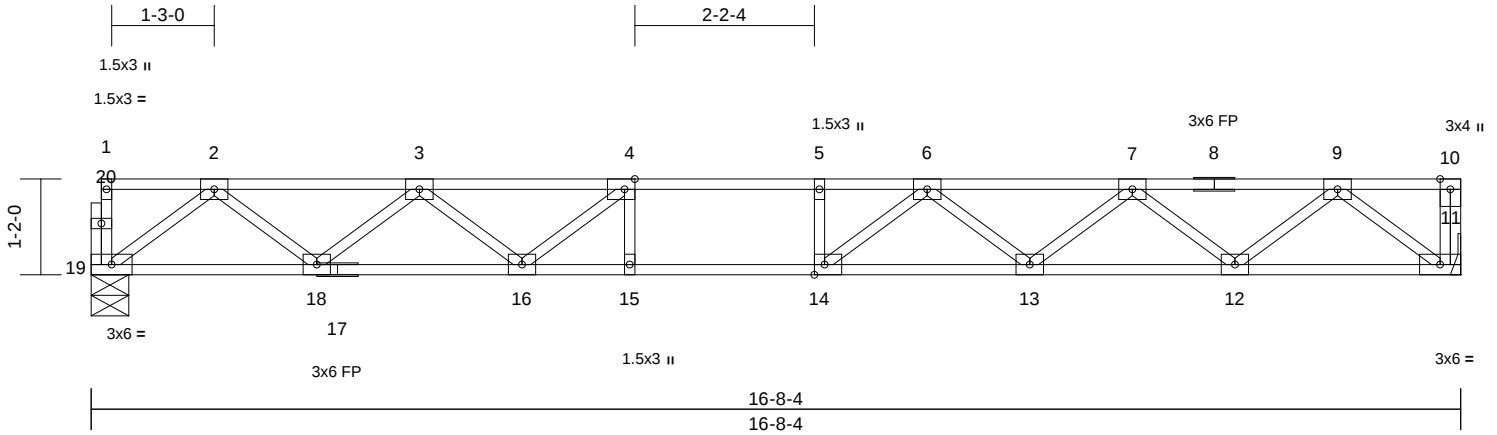
September 5,2025

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F16	Floor	3	1	176118724
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:08
ID:j1iiZznoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:28.1

Plate Offsets (X, Y): [4:0-1-8,Edge], [14:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.21	13-14	>941	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.28	13-14	>693	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 83 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

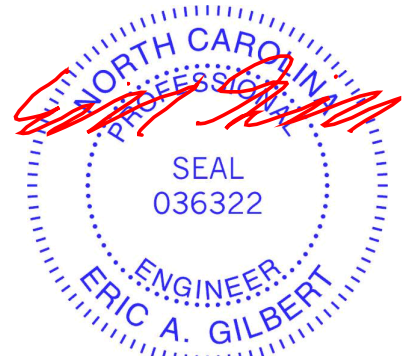
REACTIONS (size) 11= Mechanical, 19=0-5-8
Max Grav 11=723 (LC 1), 19=718 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-19=-33/0, 10-11=-34/0, 1-2=-2/0,
2-3=-1504/0, 3-4=-2420/0, 4-5=-2798/0,
5-6=-2798/0, 6-7=-2423/0, 7-9=-1503/0,
9-10=0/0
BOT CHORD 18-19=0/898, 16-18=0/2077, 15-16=0/2798,
14-15=0/2798, 13-14=0/2715, 12-13=0/2089,
11-12=0/895
WEBS 9-11=-1123/0, 9-12=0/792, 7-12=-763/0,
7-13=0/434, 6-13=-381/0, 6-14=-136/405,
5-14=-180/1, 2-19=-1125/0, 2-18=0/788,
3-18=-747/0, 3-16=0/486, 4-16=-615/0,
4-15=-61/159

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 10-00-00 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.



September 5, 2025

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

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

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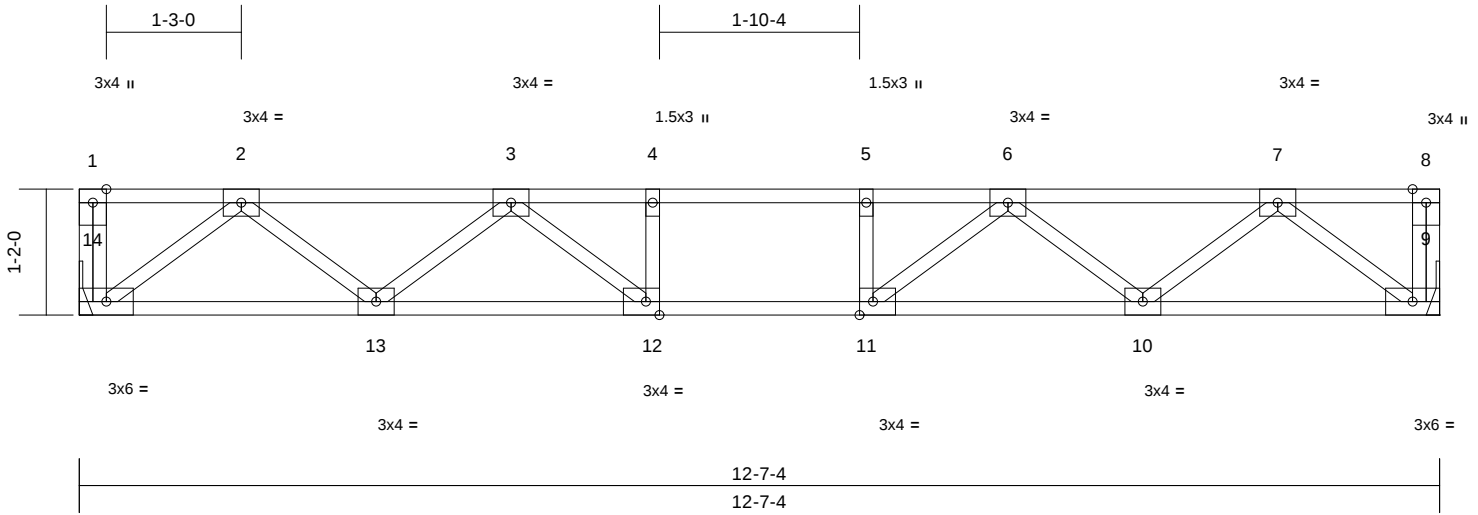
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F18	Floor	5	1	Job Reference (optional)
					I76118725

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:08
ID:j1iiZnoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:21.3

Plate Offsets (X, Y): [11:0-1-8,Edge], [12:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.07	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.09	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 64 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 9= Mechanical, 14= Mechanical
Max Grav 9=543 (LC 1), 14=543 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-14=-32/0, 8-9=-32/0, 1-2=0/0, 2-3=-1050/0,
3-4=-1581/0, 4-5=-1581/0, 5-6=-1581/0,
6-7=-1050/0, 7-8=0/0

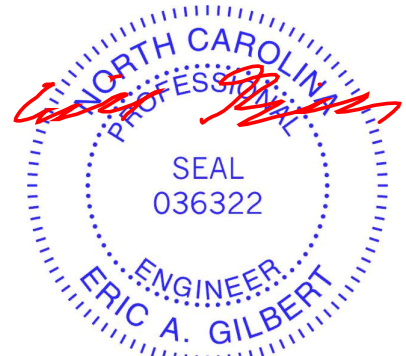
BOT CHORD 13-14=0/665, 12-13=0/1408, 11-12=0/1581,
10-11=0/1408, 9-10=0/665

WEBS 2-14=-834/0, 2-13=0/502, 3-13=-466/0,
3-12=0/380, 7-9=-834/0, 7-10=0/502,
6-10=-466/0, 6-11=0/380, 5-11=-178/0,
4-12=-178/0

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 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



September 5, 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)

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818 Soundside Road
Edenton, NC 27932

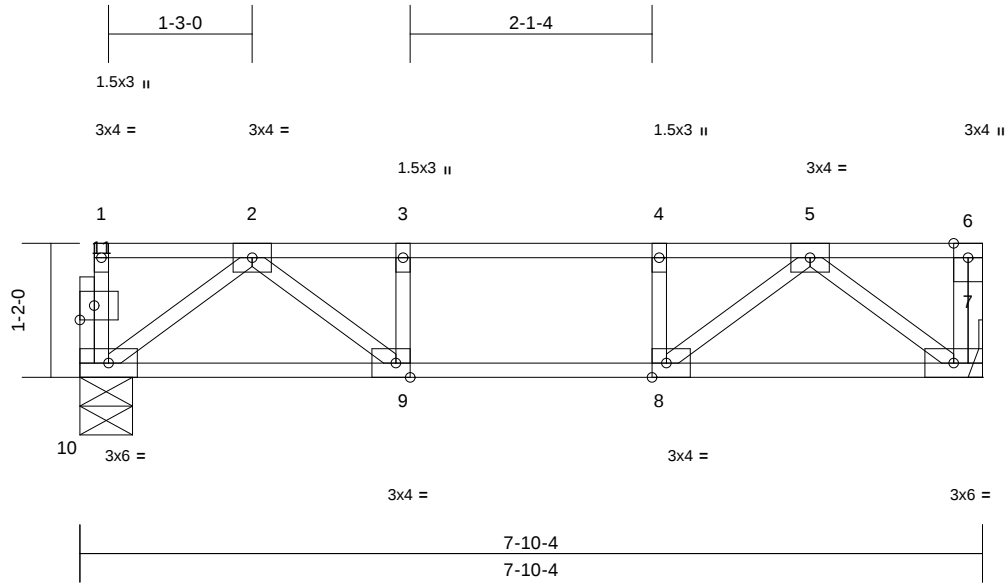
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F19	Floor	8	1	Job Reference (optional)

I76118726

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:08
ID:j1iiZnoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:20

Plate Offsets (X, Y): [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-1-8]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 40 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 7= Mechanical, 10=0-5-8
 Max Grav 7=334 (LC 1), 10=329 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
 Tension

TOP CHORD 1-10=-46/0, 6-7=-48/0, 1-2=-3/0, 2-3=-584/0,
 3-4=-584/0, 4-5=-584/0, 5-6=0/0

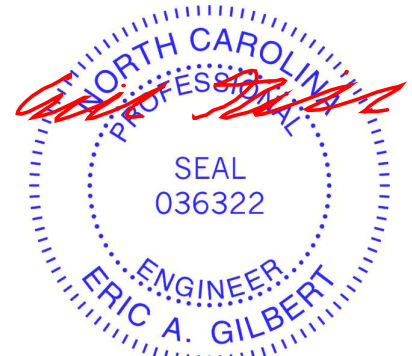
BOT CHORD 9-10=0/365, 8-9=0/584, 7-8=0/366

WEBS 2-10=-454/0, 2-9=0/315, 3-9=-158/0,
 5-7=-459/0, 5-8=0/315, 4-8=-157/0

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 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



September 5, 2025

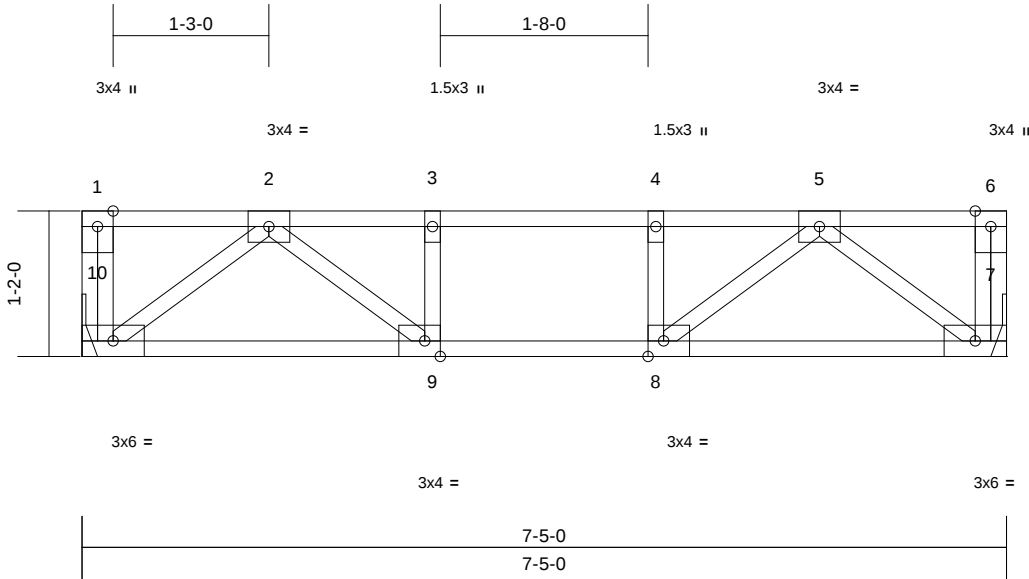
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F20	Floor	3	1	Job Reference (optional)
					I76118727



Scale = 1:18.5

Plate Offsets (X, Y): [8:0-1-8,Edge], [9:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	-0.02	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 39 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

BRACING

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

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

REACTIONS (size) 7= Mechanical, 10= Mechanical

Max Grav 7=315 (LC 1), 10=315 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

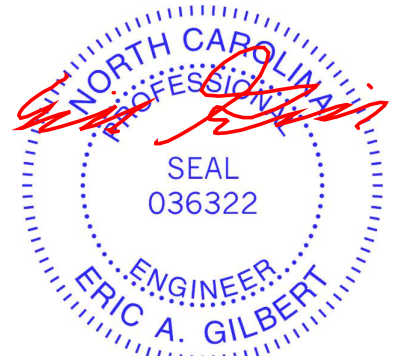
TOP CHORD 1-10=-46/0, 6-7=-46/0, 1-2=0/0, 2-3=-526/0, 3-4=-526/0, 4-5=-526/0, 5-6=0/0

BOT CHORD 9-10=0/342, 8-9=0/526, 7-8=0/342

WEBS 5-7=-430/0, 2-10=-430/0, 5-8=0/267, 2-9=0/267, 3-9=-130/0, 4-8=-130/0

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - Refer to girder(s) for truss to truss connections.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



September 5,2025

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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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	F21-GR	FLOOR GIRDER	1	1	Job Reference (optional)

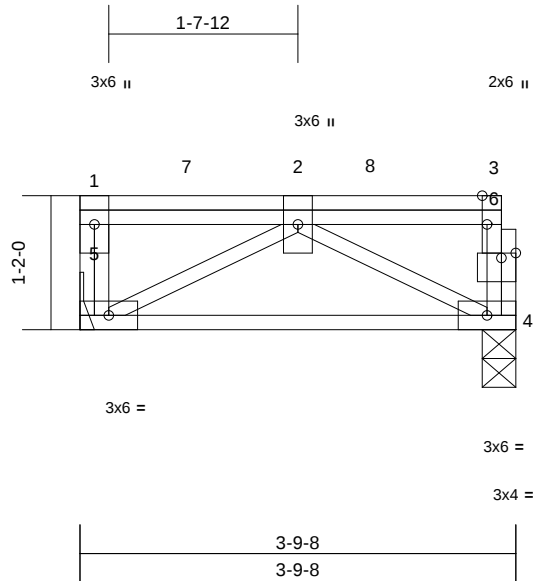
I76118728

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:08

Page: 1

ID:j1iiZnoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?i



Scale = 1:20

Plate Offsets (X, Y): [3:0-3-0,Edge], [6:0-1-8,0-0-8]

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	0.32	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.00	BC	0.25	Vert(CT)	-0.02	4-5	>999	360	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.00	4	n/a	n/a	
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							
										Weight: 27 lb	FT = 20%F, 11%E

LUMBER

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

Concentrated Loads (lb)

Vert: 7=517 (B), 8=517 (B)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(size) 4=0-3-8, 5= Mechanical
	Max Grav 4=657 (LC 1), 5=762 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
--------	--

TOP CHORD	1-5=-282/0, 3-4=-184/0, 1-2=0/0, 2-3=-12/0
BOT CHORD	4-5=0/835
WEBS	2-5=-955/0, 2-4=-941/0

NOTES

- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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) 517 lb down at 0-11-2, and 517 lb down at 2-6-5 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)

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 4-5=-10, 1-3=-100



September 5, 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)

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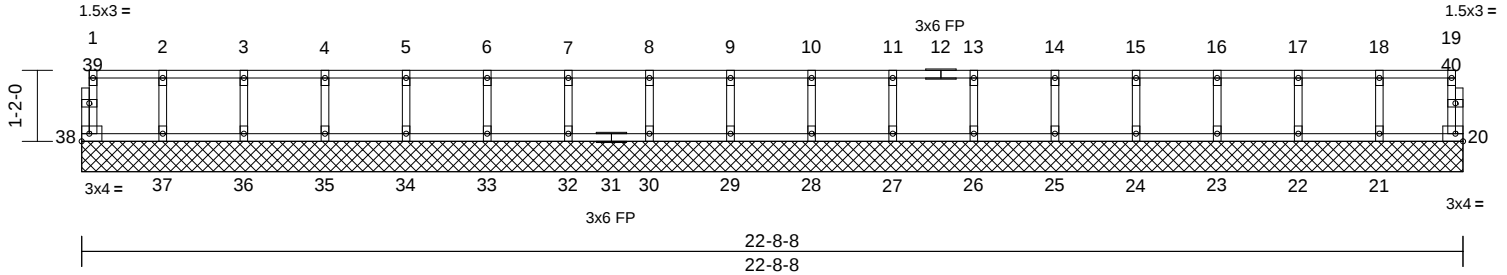
Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	FKW1	Floor Supported Gable	1	1	Job Reference (optional)
					I76118729

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:08

Page: 1

ID:j1iiznoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fi



Scale = 1:37.9

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	20	n/a	n/a	
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 94 lb FT = 20%F, 11%E

LUMBER		WEBS	
TOP CHORD	2x4 SP No.1(flat)	2-37=-104/0, 3-36=-107/0, 4-35=-106/0,	
BOT CHORD	2x4 SP No.1(flat)	5-34=-107/0, 6-33=-107/0, 7-32=-107/0,	
WEBS	2x4 SP No.3(flat)	8-30=-107/0, 9-29=-107/0, 10-28=-107/0,	
OTHERS	2x4 SP No.3(flat)	11-27=-107/0, 13-26=-107/0, 14-25=-107/0,	
		15-24=-107/0, 16-23=-107/0, 17-22=-107/0,	
		18-21=-106/0	

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

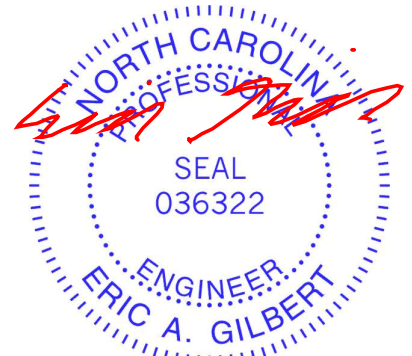
REACTIONS	(size)	
	20=22-8-8, 21=22-8-8, 22=22-8-8,	
	23=22-8-8, 24=22-8-8, 25=22-8-8,	
	26=22-8-8, 27=22-8-8, 28=22-8-8,	
	29=22-8-8, 30=22-8-8, 32=22-8-8,	
	33=22-8-8, 34=22-8-8, 35=22-8-8,	
	36=22-8-8, 37=22-8-8, 38=22-8-8	
Max Grav	20=46 (LC 1), 21=117 (LC 1),	
	22=118 (LC 1), 23=117 (LC 1),	
	24=117 (LC 1), 25=117 (LC 1),	
	26=117 (LC 1), 27=117 (LC 1),	
	28=117 (LC 1), 29=117 (LC 1),	
	30=117 (LC 1), 32=117 (LC 1),	
	33=117 (LC 1), 34=117 (LC 1),	
	35=117 (LC 1), 36=118 (LC 1),	
	37=114 (LC 1), 38=45 (LC 1)	

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-38=-41/0, 19-20=-42/0, 1-2=-8/0, 2-3=-8/0,
	3-4=-8/0, 4-5=-8/0, 5-6=-8/0, 6-7=-8/0,
	7-8=-8/0, 8-9=-8/0, 9-10=-8/0, 10-11=-8/0,
	11-13=-8/0, 13-14=-8/0, 14-15=-8/0,
	15-16=-8/0, 16-17=-8/0, 17-18=-8/0,
	18-19=-8/0
BOT CHORD	37-38=0/8, 36-37=0/8, 35-36=0/8, 34-35=0/8,
	33-34=0/8, 32-33=0/8, 30-32=0/8, 29-30=0/8,
	28-29=0/8, 27-28=0/8, 26-27=0/8, 25-26=0/8,
	24-25=0/8, 23-24=0/8, 22-23=0/8, 21-22=0/8,
	20-21=0/8

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 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



September 5, 2025

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

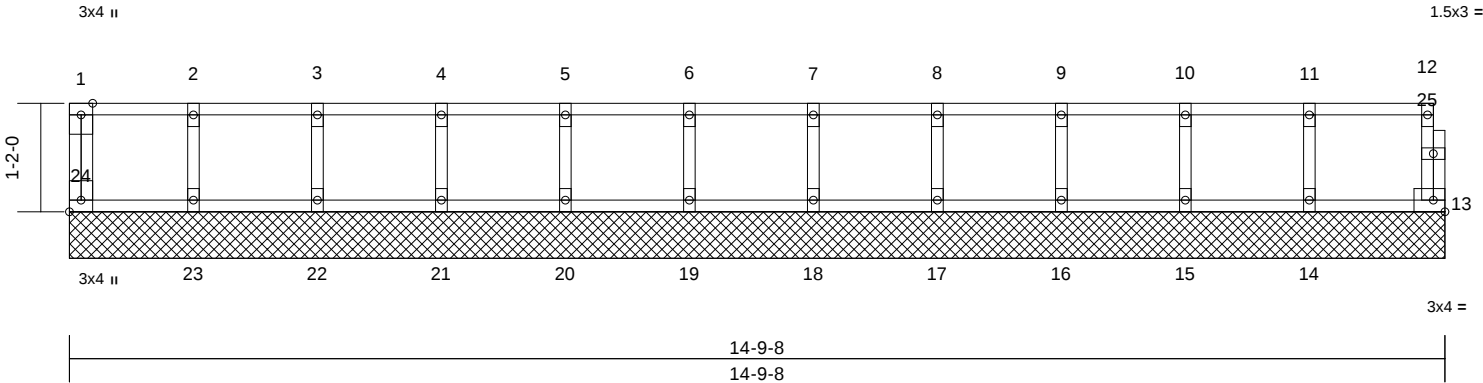
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	FKW2	Floor Supported Gable	1	1	176118730
Job Reference (optional)					

ID:j1iiZznoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?i



Scale = 1:24.8

Plate Offsets (X, Y): [24:Edge,0-1-8]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 63 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS	(size)	13=14-9-8, 14=14-9-8, 15=14-9-8, 16=14-9-8, 17=14-9-8, 18=14-9-8, 19=14-9-8, 20=14-9-8, 21=14-9-8, 22=14-9-8, 23=14-9-8, 24=14-9-8
Max Grav		13=51 (LC 1), 14=121 (LC 1), 15=116 (LC 1), 16=117 (LC 1), 17=117 (LC 1), 18=117 (LC 1), 19=117 (LC 1), 20=117 (LC 1), 21=117 (LC 1), 22=118 (LC 1), 23=113 (LC 1), 24=51 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-24=-46/0, 12-13=-46/0, 1-2=-9/0, 2-3=-9/0, 3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0, 7-8=-9/0, 8-9=-9/0, 9-10=-9/0, 10-11=-9/0, 11-12=-9/0
BOT CHORD	23-24=0/9, 22-23=0/9, 21-22=0/9, 20-21=0/9, 19-20=0/9, 18-19=0/9, 17-18=0/9, 16-17=0/9, 15-16=0/9, 14-15=0/9, 13-14=0/9
WEBS	2-23=-104/0, 3-22=-107/0, 4-21=-106/0, 5-20=-107/0, 6-19=-107/0, 7-18=-107/0, 8-17=-107/0, 9-16=-107/0, 10-15=-106/0, 11-14=-110/0

NOTES

- 1) All plates are 1.5x3 (II) 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 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



September 5,2025

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

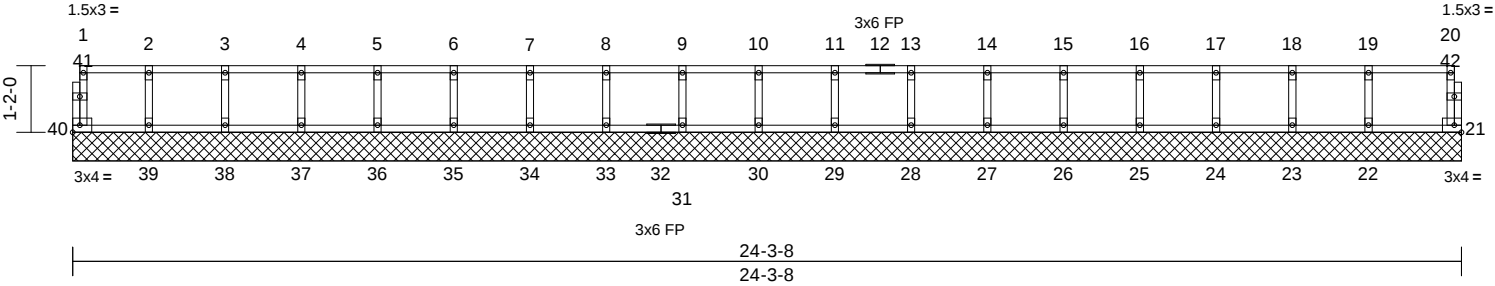
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Job	Truss	Truss Type	Qty	Ply	Lot 50 Duncan's Creek
250919-B	FKW3	Floor Supported Gable	1	1	176118731
Job Reference (optional)					

ID:j1iiZznoF1OB8VlyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:40.3

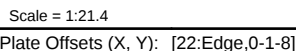
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	21	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 100 lb	FT = 20%F, 11%E

LUMBER		WEBS	
TOP CHORD	2x4 SP No.1(flat)	2-39=-86/0, 3-38=-90/0, 4-37=-89/0,	
BOT CHORD	2x4 SP No.1(flat)	5-36=-89/0, 6-35=-89/0, 7-34=-89/0,	
WEBS	2x4 SP No.3(flat)	8-33=-89/0, 9-31=-89/0, 10-30=-89/0,	
OTHERS	2x4 SP No.3(flat)	11-29=-89/0, 13-28=-89/0, 14-27=-89/0,	
BRACING		15-26=-89/0, 16-25=-89/0, 17-24=-90/0,	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	18-23=-86/0, 19-22=-99/0	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		
REACTIONS (size)		NOTES	
	21=24-3-8, 22=24-3-8, 23=24-3-8, 24=24-3-8, 25=24-3-8, 26=24-3-8, 27=24-3-8, 28=24-3-8, 29=24-3-8, 30=24-3-8, 31=24-3-8, 33=24-3-8, 34=24-3-8, 35=24-3-8, 36=24-3-8, 37=24-3-8, 38=24-3-8, 39=24-3-8, 40=24-3-8	1) All plates are 1.5x3 () MT20 unless otherwise indicated.	
Max Grav	21=48 (LC 1), 22=109 (LC 1), 23=95 (LC 1), 24=99 (LC 1), 25=98 (LC 1), 26=98 (LC 1), 27=98 (LC 1), 28=98 (LC 1), 29=98 (LC 1), 30=98 (LC 1), 31=98 (LC 1), 33=98 (LC 1), 34=98 (LC 1), 35=98 (LC 1), 36=98 (LC 1), 37=97 (LC 1), 38=99 (LC 1), 39=92 (LC 1), 40=40 (LC 1)	2) Plates checked for a plus or minus 1 degree rotation about its center.	
FORCES (lb) - Maximum Compression/Maximum Tension		3) Gable requires continuous bottom chord bearing.	
TOP CHORD	1-40=-35/0, 20-21=-44/0, 1-2=-9/0, 2-3=-9/0, 3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0, 7-8=-9/0, 8-9=-9/0, 9-10=-9/0, 10-11=-9/0, 11-13=-9/0, 13-14=-9/0, 14-15=-9/0, 15-16=-9/0, 16-17=-9/0, 17-18=-9/0, 18-19=-9/0, 19-20=-9/0	4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).	
BOT CHORD	39-40=0/9, 38-39=0/9, 37-38=0/9, 36-37=0/9, 35-36=0/9, 34-35=0/9, 33-34=0/9, 31-33=0/9, 30-31=0/9, 29-30=0/9, 28-29=0/9, 27-28=0/9, 26-27=0/9, 25-26=0/9, 24-25=0/9, 23-24=0/9, 22-23=0/9, 21-22=0/9	5) Gable studs spaced at 1-4-0 oc.	
		6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.	
		LOAD CASE(S) Standard	



September 5,2025

Comtech, Inc, Fayetteville, NC - 28314, Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Thu Sep 04 12:05:09 Page: 1
ID:j1i1ZznoF1OB8VlyQvpY15zebVT-RfC?PsB70Ha3NSaPanL8w3ulTXbGKWRCDoi7J4zJC?i



LUMBER		4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
TOP CHORD	2x4 SP No.1(flat)	
BOT CHORD	2x4 SP No.1(flat)	5) Gable studs spaced at 1-4-0 oc.
WEBS	2x4 SP No.3(flat)	6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
OTHERS	2x4 SP No.3(flat)	7) CAUTION. Do not erect truss backwards.
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 6 x 6 or similar - spaced and vertical	

LOAD CASE(S) Standard

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-22=-44/0, 11-12=-3/0, 1-2=-5/0, 2-3=-5/0, 3-4=-5/0, 4-5=-5/0, 5-6=-5/0, 6-7=-5/0, 7-8=-5/0, 8-9=-5/0, 9-10=-5/0, 10-11=-5/0
BOT CHORD	21-22=0/5, 20-21=0/5, 19-20=0/5, 18-19=0/5, 17-18=0/5, 16-17=0/5, 15-16=0/5, 14-15=0/5, 13-14=0/5, 12-13=0/5
WEBS	2-21=-106/0, 3-20=-107/0, 4-19=-107/0, 5-18=-107/0, 6-17=-107/0, 7-16=-107/0, 8-15=-105/0, 9-14=-111/0, 10-13=-81/0

- 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.

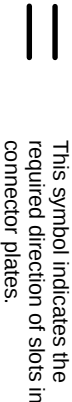
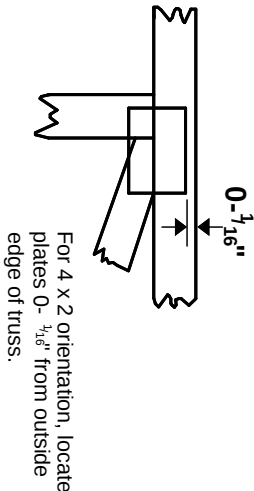
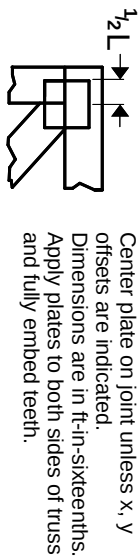


Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

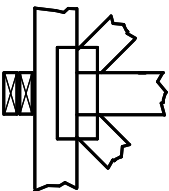
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

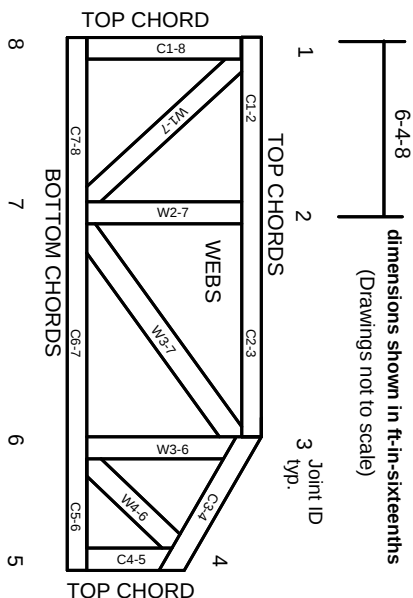


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: 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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MITek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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.