

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

▲ = 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

Roof Area = 1465.93 sq.ft.
Ridge Line = 36.41 ft.
Hip Line = 0 ft.
Horiz. OH = 151.05 ft.
Raked OH = 211.59 ft.
Decking = 50 sheets

All Walls Shown Are
Considered Load Bearing

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

Truss Placement Plan
SCALE: NTS

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

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b)) NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS/GUDES			
END REACTION (UP TO)	END REACTION (UP TO)	END REACTION (UP TO)	END REACTION (UP TO)
1700	2550	3400	
3400	5100	6800	
5100	7650	10200	
6800	10200	13600	
8500	12750	17000	
10200	15300		
11900			
13600			
15300			

BUILDER	New Home Inc.
JOB NAME	Lot 55 Duncan's Creek
PLAN	Wilson - Elev. C
SEAL DATE	Seal Date
QUOTE #	Quote #
JOB #	J0625-3258

CITY / CO.	Lillington / Harnett
ADDRESS	620 Beacon Hill Road
MODEL	Roof
DATE REV.	6/30/25
DRAWN BY	Johnnie Baggett
SALES REP.	TBD

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 BCSH-B1 and BCSH-B3 provided with the truss delivery package or online @ sbcindustry.com

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 Johnnie Baggett
Johnnie Baggett

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

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0625-3258
Lot 55 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: I74577705 thru I74577719

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

North Carolina COA: C-0844



July 2, 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 55 Duncan's Creek
J0625-3258	A01GE	COMMON SUPPORTED GAB	1	1	174577705
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID:MRVdg0cxPqsK8U739DzMhizpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcD0i7J4zJC?f

-0-11-0 17-11-12 36-0-0 36-11-0
0-11-0 17-11-12 18-0-4 0-11-0

Scale = 1:67.3

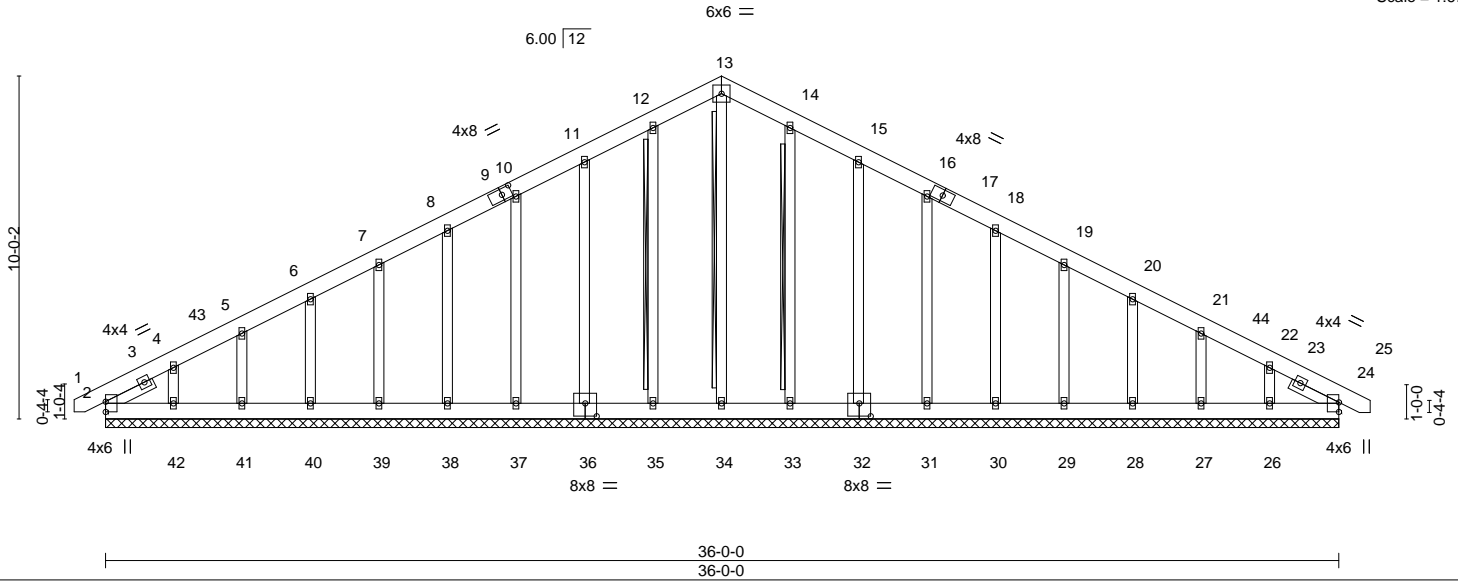


Plate Offsets (X,Y)--		[9:0-3-7,0-2-0], [32:0-4-0,0-4-8], [36:0-4-0,0-4-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05
TCDL 10.0	Lumber DOL	1.15	BC 0.02
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.00 24 n/r 120
		Vert(CT)	0.00 24 n/r 120
		Horz(CT)	0.01 24 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 311 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-6-7, Right 2x4 SP No.2 1-6-4

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 13-34, 12-35, 14-33
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. All bearings 36-0-0.
(lb) - Max Horz 2=-190(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 2, 35, 36, 37, 38, 39, 40, 41, 33, 32, 31, 30, 29, 28, 27 except 42=-151(LC 12), 26=-127(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 34, 35, 36, 37, 38, 39, 40, 41, 42, 33, 32, 31, 30, 29, 28, 27, 26, 24

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-280/86, 11-12=-115/297, 12-13=-129/337, 13-14=-129/337, 14-15=-115/297

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 17-11-12, Corner(3R) 17-11-12 to 22-4-9, Exterior(2N) 22-4-9 to 36-9-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 35, 36, 37, 38, 39, 40, 41, 33, 32, 31, 30, 29, 28, 27 except (jt=lb) 42=151, 26=127.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



July 2,2025

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 55 Duncan's Creek
J0625-3258	A02	FINK	5	1	174577706
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

-0-11-0 8-11-10 18-0-0 27-0-6 36-0-0 36-11-0
0-11-0 8-11-10 9-0-6 9-0-6 8-11-10 0-11-0

Scale = 1:67.8

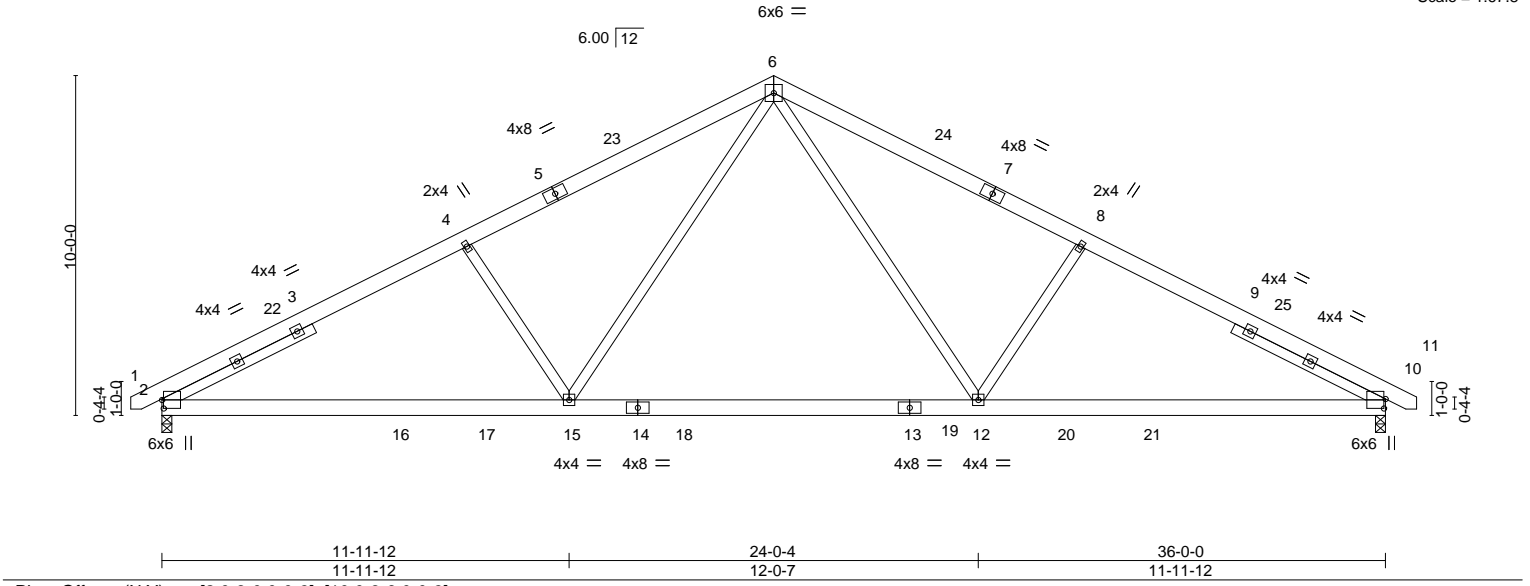


Plate Offsets (X,Y)--		[2:0-3-0,0-0-9], [10:0-3-6,0-0-9]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.41
TCDL 10.0	Lumber DOL	1.15	BC 0.74
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.28 12-15	>999	360
Vert(CT)	-0.40 12-15	>999	240
Horz(CT)	0.07 10	n/a	n/a
Wind(LL)	0.05 12-15	>999	240
PLATES	GRIP		
MT20	244/190		
Weight: 247 lb		FT = 20%	

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 4-11-7, Right 2x4 SP No.2 4-11-7

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

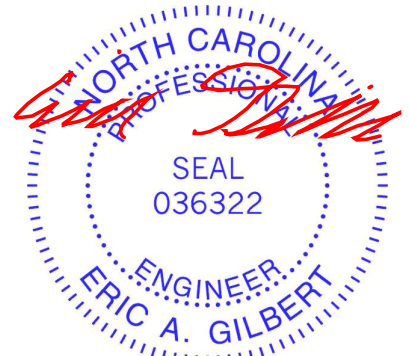
(size) 2=0-3-8, 10=0-3-8
Max Horz 2=125(LC 9)
Max Uplift 2=-96(LC 12), 10=-96(LC 13)
Max Grav 2=1749(LC 2), 10=1749(LC 2)

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

TOP CHORD 2-4=-2825/521, 4-6=-2596/541, 6-8=-2596/541, 8-10=-2825/521
BOT CHORD 2-15=-359/2449, 12-15=-130/1684, 10-12=-338/2402
WEBS 4-15=-463/304, 6-15=-125/1079, 6-12=-125/1079, 8-12=-463/304

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 18-0-0, Exterior(2R) 18-0-0 to 22-4-13, Interior(1) 22-4-13 to 36-9-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.



July 2,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3258	A03	FINK	4	1	174577707
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID:MRVdg0cxPqsK8U739DzMHiZpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-0 8-11-8 17-11-12 27-0-0 35-8-8
0-11-0 8-11-8 9-0-4 9-0-4 8-8-8

Scale = 1:69.8

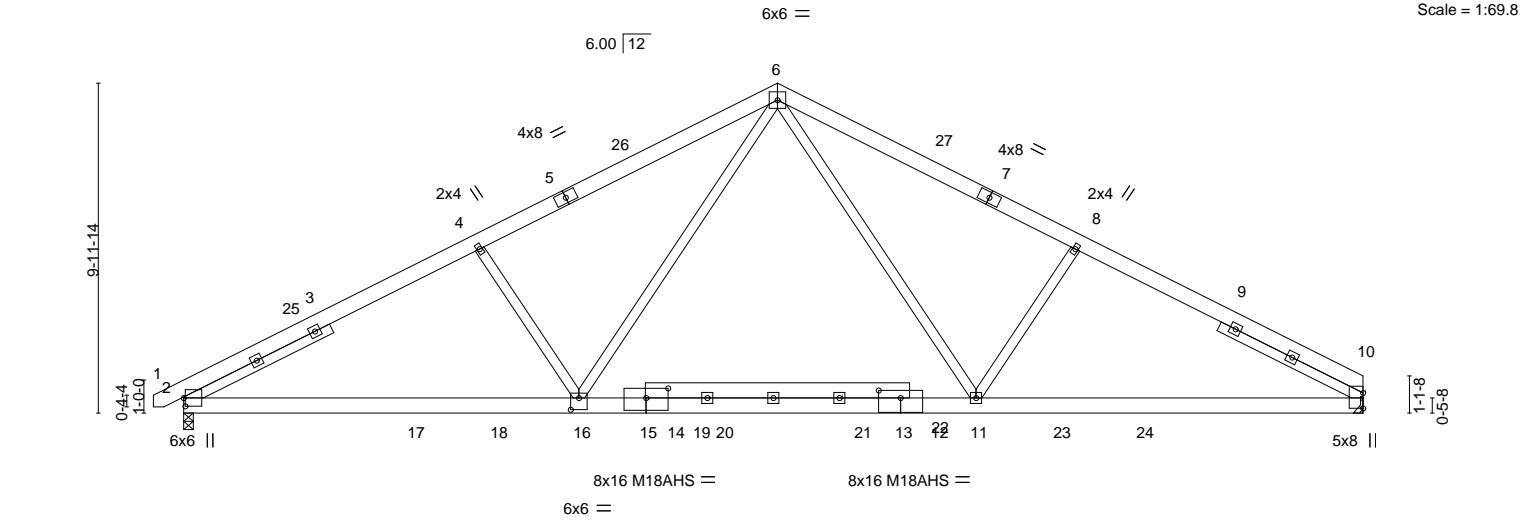


Plate Offsets (X,Y)--		[2:0-3-0,0-0-9], [13:0-8-0,0-2-12], [14:0-8-0,0-3-8], [16:0-3-0,0-4-4]		[11-11-10, 11-11-10]		[23-11-14, 12-0-5]		[35-8-8, 11-8-10]	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.18 2-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.35 11-16	>999	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.09 10	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.06 11-16	>999	240	Weight: 262 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 4-11-6, Right 2x4 SP No.2 4-10-6

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

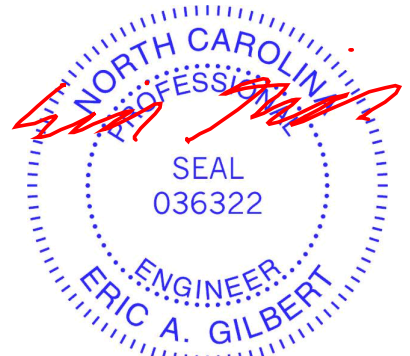
(size) 2=0-3-8, 10=Mechanical
Max Horz 2=127(LC 8)
Max Grav 2=1825(LC 2), 10=1791(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2983/308, 4-6=-2751/327, 6-8=-2714/330, 8-10=-2949/311
BOT CHORD 2-16=-163/2585, 11-16=-262/1775, 10-11=-144/2479
WEBS 4-16=-446/319, 6-16=-15/1174, 6-11=-11/1117, 8-11=-410/314

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 17-11-12, Exterior(2R) 17-11-12 to 22-4-9, Interior(1) 22-4-9 to 35-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 17-11-12 from left end, supported at two points, 5-0-0 apart.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 4x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.



July 2,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3258	A04	FINK	2	1	174577708
Job Reference (optional)					

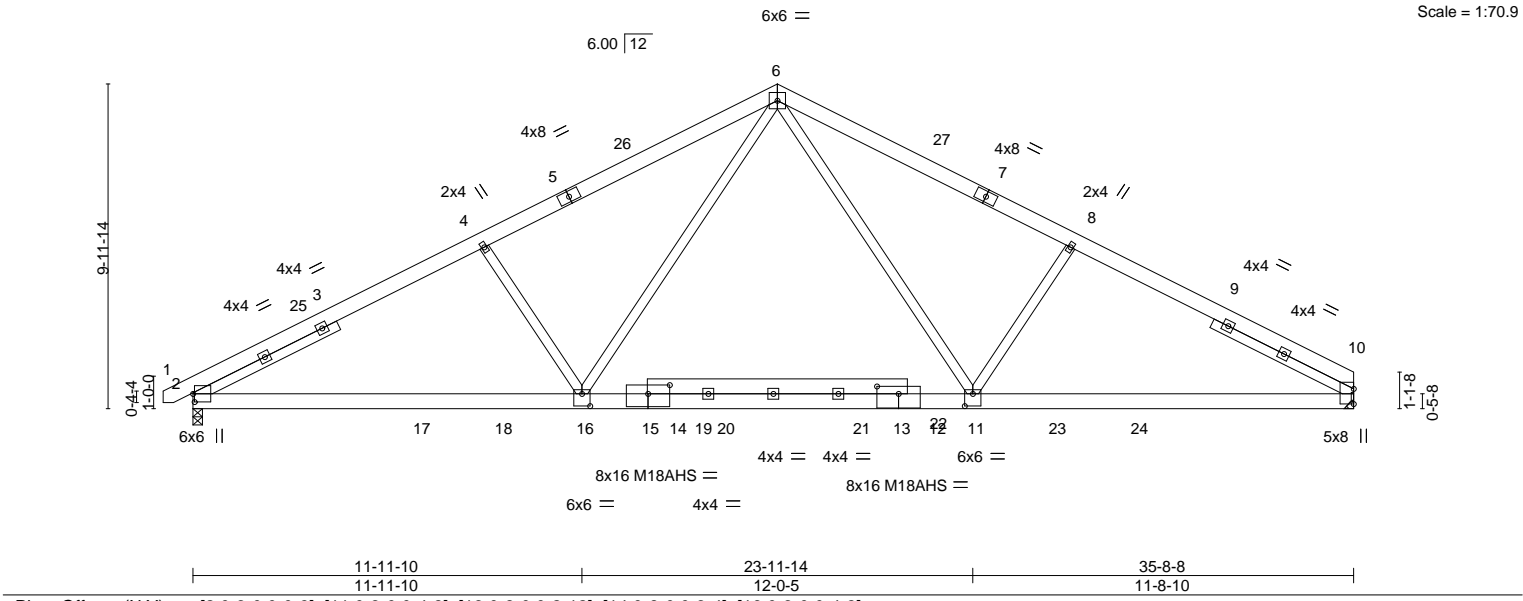
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ID:MRVdg0cxPqsK8U739DzMHizpZIL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0-11-0 8-11-8 17-11-12 27-0-0 35-8-8
0-11-0 8-11-8 9-0-4 9-0-4 8-8-8

Scale = 1:70.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.19 2-16 >999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.37 11-16 >999 240	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.09 10 n/a n/a	Weight: 262 lb FT = 20%	
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S		Wind(LL)	0.06 11-16 >999 240		

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-10-14 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.2		
SLIDER	Left 2x4 SP No.2 4-11-6, Right 2x4 SP No.2 4-10-6		

REACTIONS.	
(size)	2=0-3-8, 10=Mechanical
Max Horz	2=135(LC 8)
Max Uplift	2=3(LC 12)
Max Grav	2=1933(LC 2), 10=1896(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-3156/341, 4-6=-2909/361, 6-8=-2870/363, 8-10=-3120/344
BOT CHORD	2-16=-185/2735, 11-16=-273/1878, 10-11=-164/2623
WEBS	4-16=-475/337, 6-16=-23/1241, 6-11=-19/1180, 8-11=-437/333

- 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 17-11-12, Exterior(2R) 17-11-12 to 22-4-9, Interior(1) 22-4-9 to 35-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 200.0lb AC unit load placed on the bottom chord, 17-11-12 from left end, supported at two points, 5-0-0 apart.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.



July 2,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3258	A05GE	GABLE	1	1	174577709
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:26:17 2025 Page 1

ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0-11-0 8-10-12 17-10-4 26-9-12 35-8-8
0-11-0 8-10-12 8-11-8 8-11-8 8-10-12

5x12 ||

Scale = 1:67.1

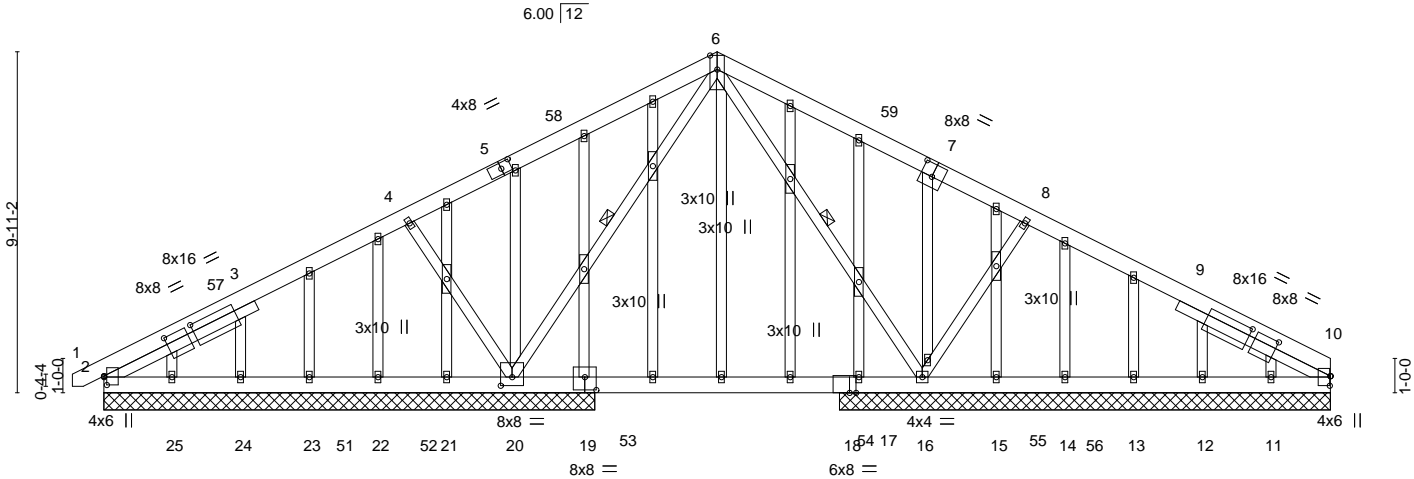


Plate Offsets (X,Y)-- [2:0-2-12,0-1-0], [5:0-3-7,0-2-0], [7:0-4-0,0-4-8], [10:0-3-6,0-0-4], [18:0-2-4,0-0-0], [19:0-4-0,0-4-8], [20:0-4-0,0-3-0], [37:2-10-14,0-2-8], [38:2-0-10,0-2-8], [49:2-7-10,0-2-8], [50:1-9-6,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	-0.11 17-20	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.15 17-20	>826	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.00 2-25	>999	240	Weight: 360 lb	FT = 20%

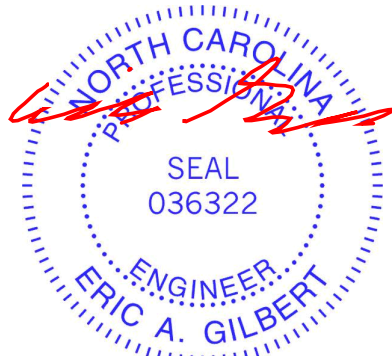
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 4-10-15, Right 2x4 SP No.2 4-10-15

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-20, 6-16

REACTIONS. All bearings 14-3-8.
(lb) - Max Horz 2=194(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 11 except 2=101(LC 13), 20=247(LC 12), 16=388(LC 13), 10=130(LC 13), 21=339(LC 18), 25=112(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 23, 24, 25, 15, 14, 13, 12, 11 except 2=361(LC 1), 20=1126(LC 2), 16=573(LC 1), 10=326(LC 1), 22=267(LC 18), 17=798(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-489/223, 4-6=-183/254, 8-10=-499/232
BOT CHORD 2-25=-188/323, 24-25=-188/323, 23-24=-188/323, 22-23=-188/323, 21-22=-188/323, 20-21=-188/323, 15-16=-71/332, 14-15=-71/332, 13-14=-71/332, 12-13=-71/332, 11-12=-71/332, 10-11=-71/332
WEBS 4-20=-526/417, 6-20=-271/62, 6-16=-256/51, 8-16=-533/420

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) gable end zone and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 17-10-4, Exterior(2R) 17-10-4 to 22-3-1, Interior(1) 22-3-1 to 35-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (it=lb) 2=101, 20=247, 16=388, 10=130, 21=339, 25=112.



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3258	B01GE	COMMON SUPPORTED GAB	1	1	174577710
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID:MRVdg0cxPqsK8U739DzMHiZpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

0-11-0 7-0-0 14-0-0 14-11-0
0-11-0 7-0-0 7-0-0 0-11-0

5x5 =

Scale = 1:38.5

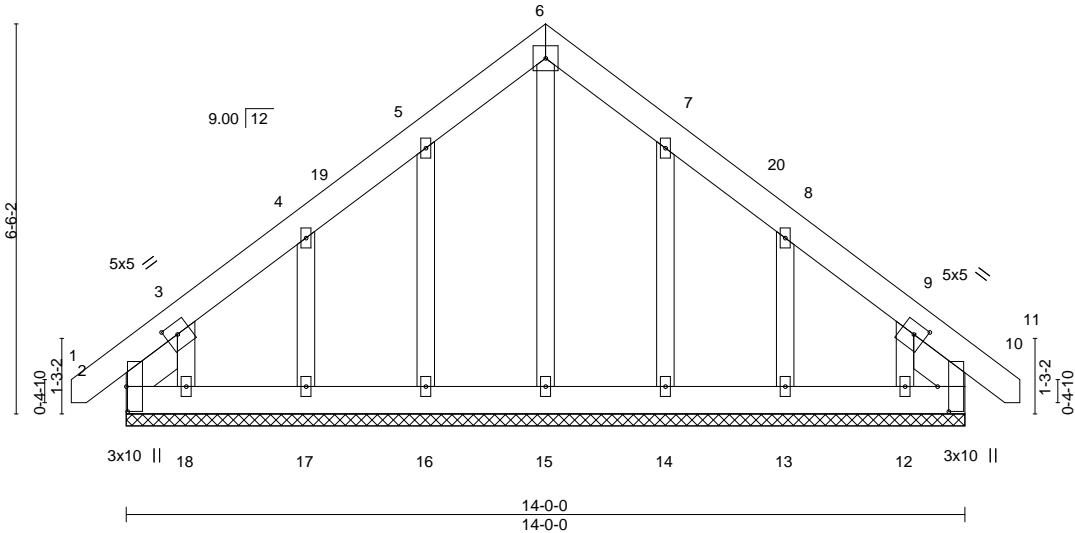


Plate Offsets (X,Y)--		[2:0-5-0,0-0-4], [3:0-2-5,0-2-4], [9:0-2-5,0-2-4], [10:0-5-0,0-2-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15		TC 0.03		Vert(LL) -0.00	10	n/r	120	MT20	244/190
TCDL 10.0		Lumber DOL 1.15		BC 0.02		Vert(CT) -0.00	10	n/r	120		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.07		Horz(CT) 0.00	10	n/a	n/a		
BCDL 10.0		Code IRC2021/TPI2014		Matrix-S						Weight: 117 lb	FT = 20%

LUMBER-

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

BRACING-

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

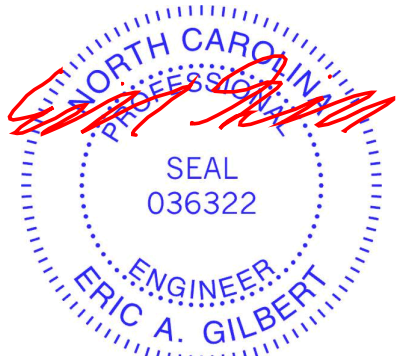
REACTIONS.

All bearings 14-0-0.
(lb) - Max Horz 2=178(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 14 except 17=111(LC 12), 18=181(LC 12),
13=111(LC 13), 12=164(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-8 to 3-7-5, Exterior(2N) 3-7-5 to 7-0-0, Corner(3R) 7-0-0 to 11-4-13, Exterior(2N) 11-4-13 to 14-9-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16, 14 except (jt=lb) 17=111, 18=181, 13=111, 12=164.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



July 2,2025

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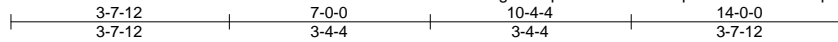
818 Soundside Road
Edenton, NC 27932

Job J0625-3258	Truss B02-GR	Truss Type Common Girder	Qty 1	Ply 2	Lot 55 Duncan's Creek 174577711
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Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:26:19 2025 Page 1

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6x6 ||

Scale = 1:38.5

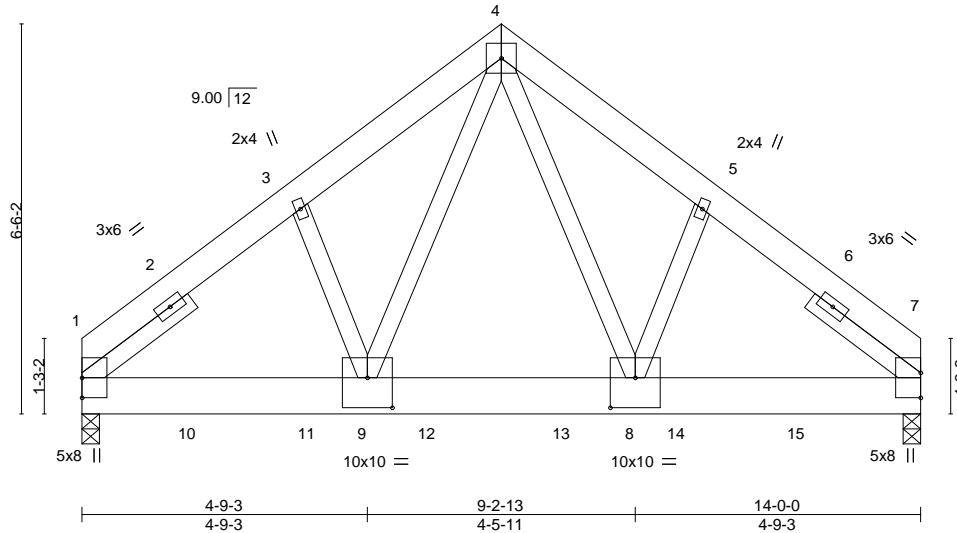


Plate Offsets (X,Y)-- [8:0-5-0,0-6-0], [9:0-5-0,0-6-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.52	Vert(LL)	-0.04	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.08	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.46	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.00	9	>999		
								Weight: 237 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 2-3-1, Right 2x4 SP No.2 2-3-1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 7=0-3-8
Max Horz 1=142(LC 26)
Max Grav 1=6007(LC 2), 7=5805(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-6673/0, 3-4=-6319/0, 4-5=-6309/0, 5-7=-6668/0
BOT CHORD 1-9=0/4871, 8-9=0/3825, 7-8=0/4860
WEBS 4-8=0/3735, 5-8=0/904, 4-9=0/3755, 3-9=0/892

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1771 lb down at 1-9-4, 1771 lb down at 3-9-4, 1875 lb down at 5-9-4, 1875 lb down at 8-0-4, and 1771 lb down at 11-11-4 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 (plf)
Vert: 1-4=-60, 4-7=-60, 1-7=-20
Concentrated Loads (lb)
Vert: 10=-1509(B) 11=-1509(B) 12=-1597(B) 13=-1597(B) 14=-1509(B) 15=-1509(B)



July 2, 2025

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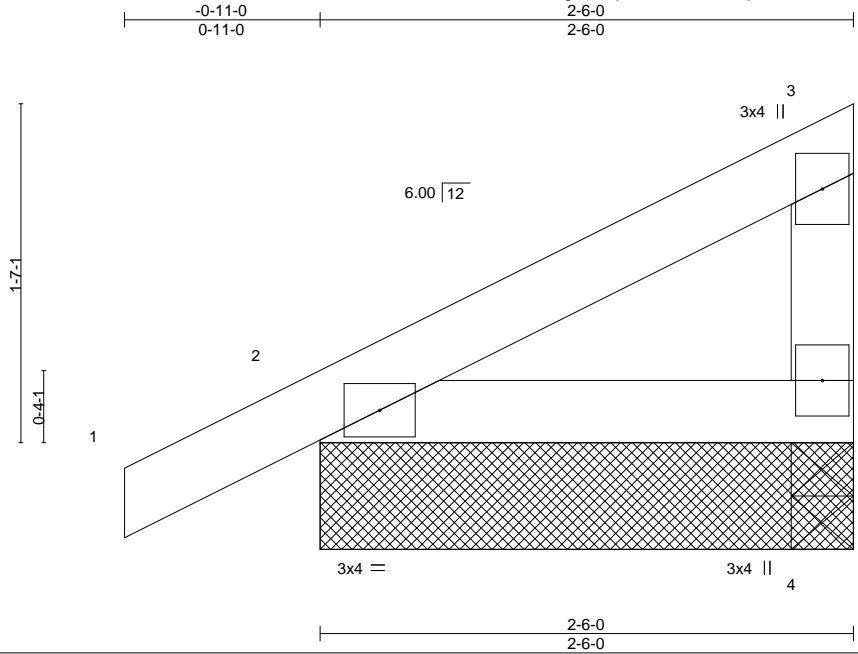
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3258	M01GE	MONOPITCH	2	1	174577712
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:10.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-

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

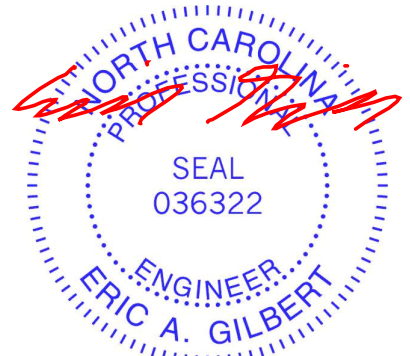
REACTIONS.

(size) 4=2-6-0, 4=2-6-0, 2=2-6-0
Max Horz 2=74(LC 12)
Max Uplift 4=35(LC 12), 2=-45(LC 12)
Max Grav 4=83(LC 1), 4=83(LC 1), 2=160(LC 1)

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

NOTES-

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



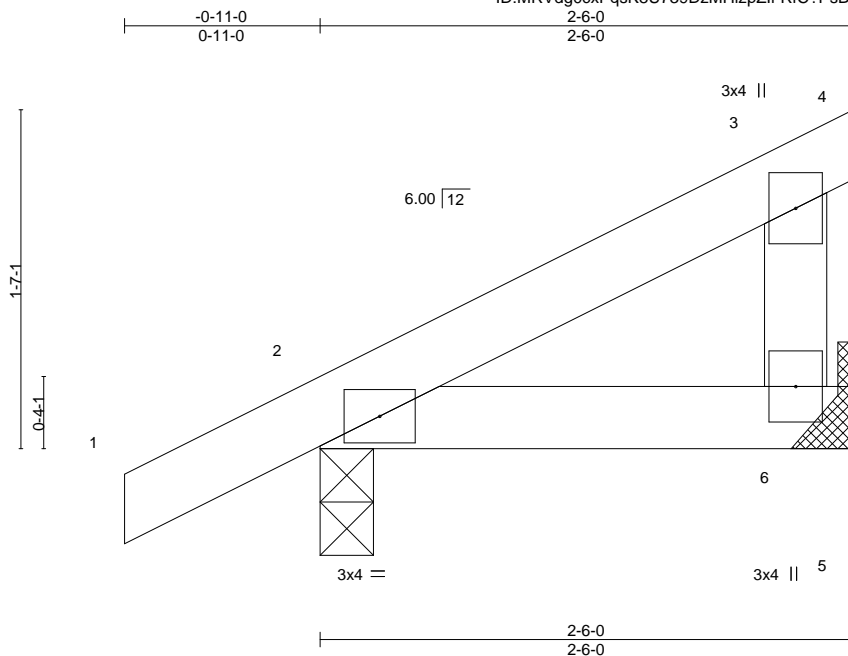
July 2,2025

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Edenton, NC 27932



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) -0.00 2 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.00 2-6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-P	Wind(LL) 0.00 2-6 >999 240	Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 6=Mechanical, 2=0-3-0
Max Horz 2=52(LC 12)
Max Uplift 6=-17(LC 12), 2=-25(LC 8)
Max Grav 6=80(LC 1), 2=161(LC 1)

FORCES.

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate gr DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.



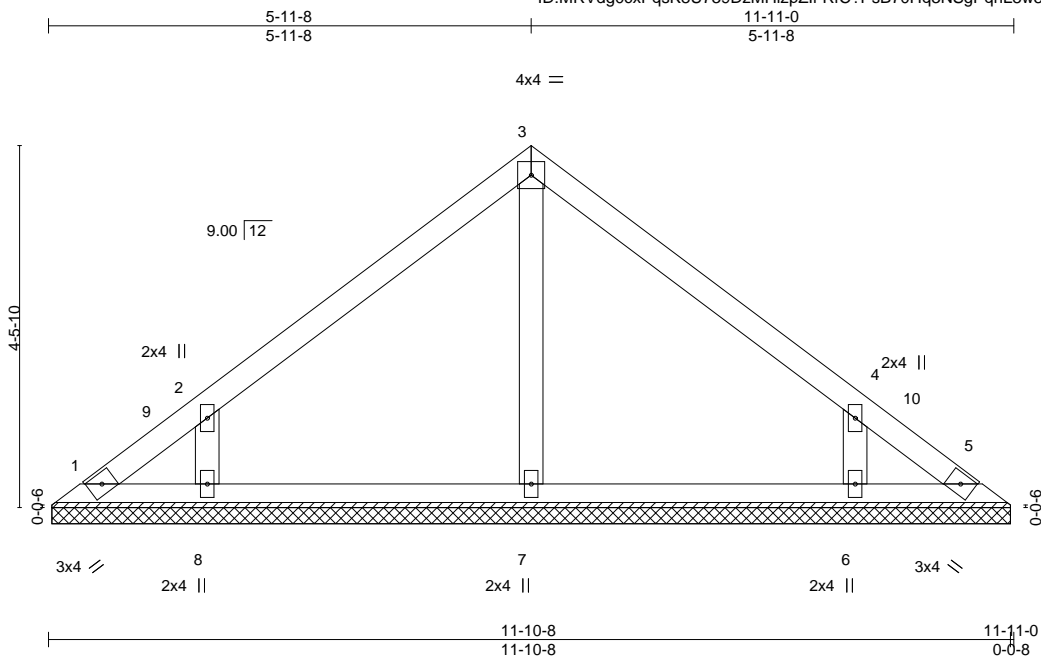
July 2, 2025

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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S						Weight: 47 lb	FT = 20%

LUMBER-

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

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

REACTIONS. All bearings 11-10-0.
(lb) - Max Horz 1=99(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=108(LC 12), 6=108(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=253(LC 1), 8=319(LC 19), 6=319(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-259/271, 4-6=-258/271

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) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 5-11-8, Exterior(2R) 5-11-8 to 10-4-5, Interior(1) 10-4-5 to 11-5-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=108, 6=108.



July 2, 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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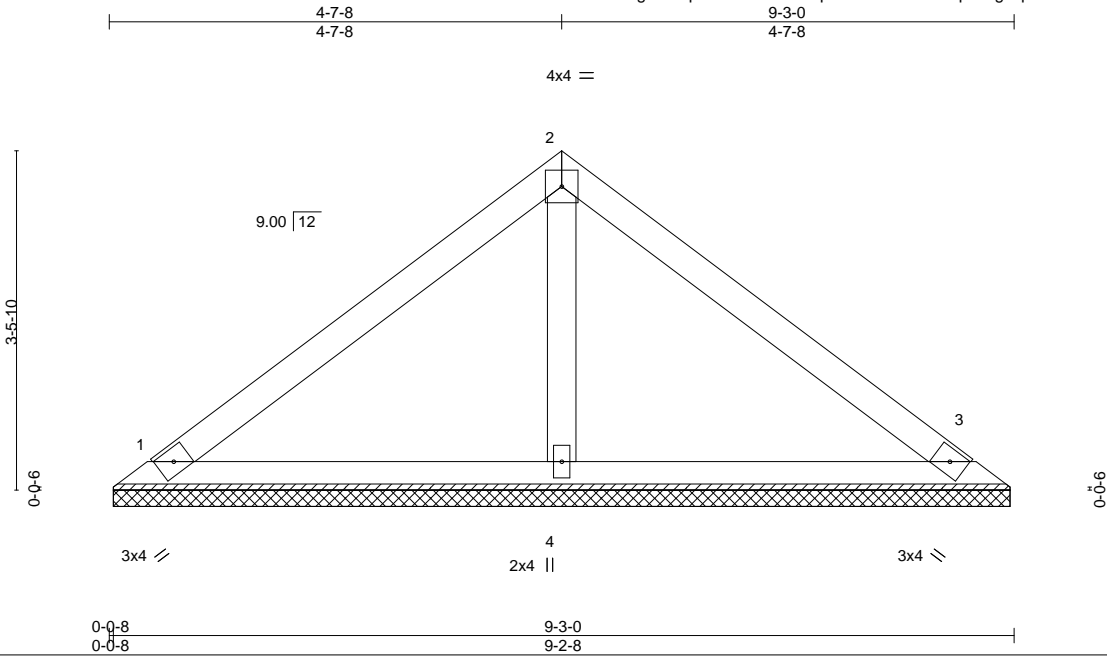
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3258	VB2	Valley	1	1	174577715
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:26:20 2025 Page 1

ID:MRVdg0cxPqsK8U739DzMHiZpZII-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



Scale = 1:23.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 33 lb	FT = 20%

LUMBER-

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

BRACING-

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

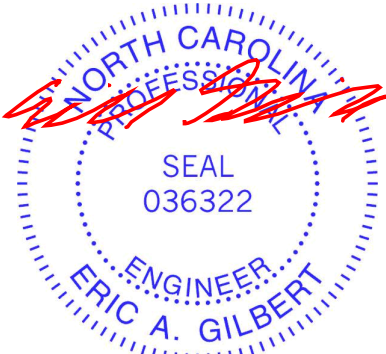
REACTIONS.

(size) 1=9-2-0, 3=9-2-0, 4=9-2-0
Max Horz 1=-75(LC 10)
Max Uplift 1=-20(LC 12), 3=-28(LC 13)
Max Grav 1=173(LC 1), 3=173(LC 1), 4=324(LC 1)

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

NOTES-

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



July 2,2025

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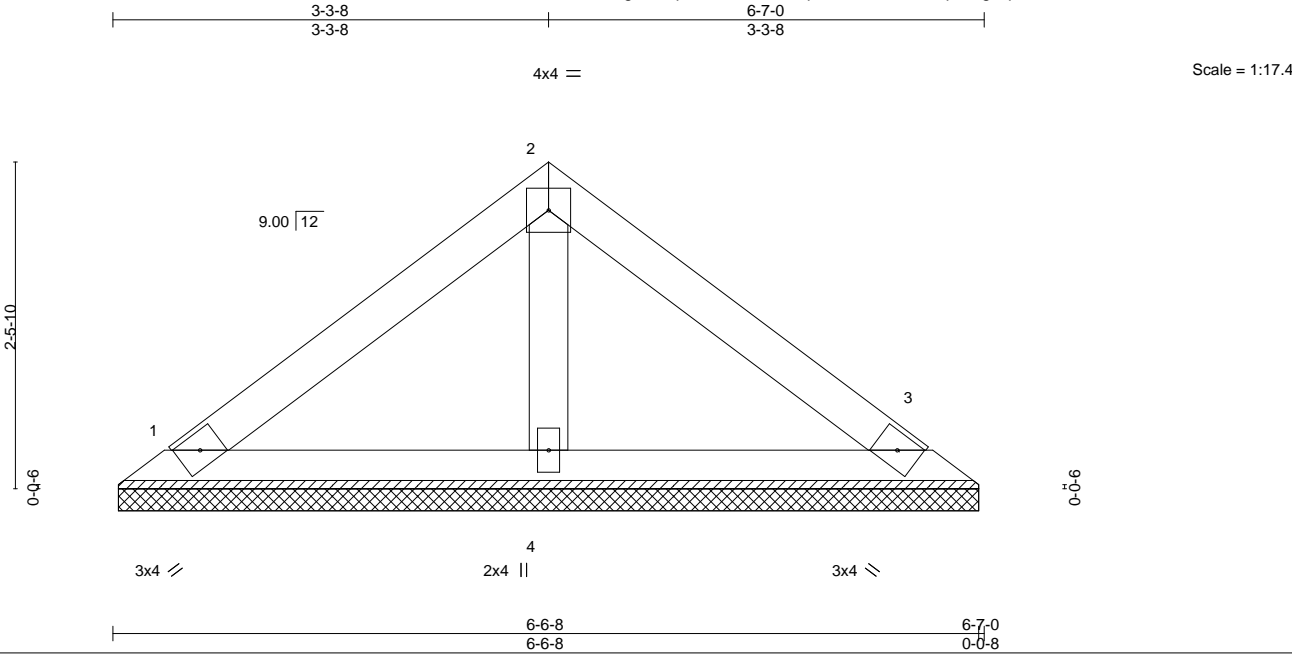
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3258	VB3	Valley	1	1	174577716
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:26:21 2025 Page 1

ID:MRVdg0cxPqsK8U739DzMhizpZII-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 23 lb	FT = 20%

LUMBER-

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

BRACING-

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

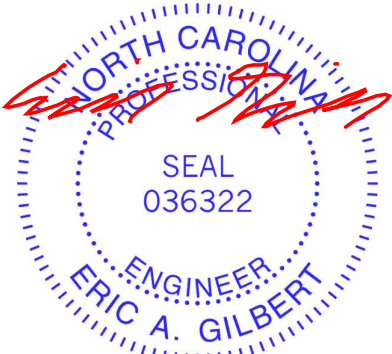
REACTIONS.

(size) 1=6-6-0, 3=6-6-0, 4=6-6-0
Max Horz 1=51(LC 9)
Max Uplift 1=20(LC 12), 3=25(LC 13)
Max Grav 1=128(LC 1), 3=128(LC 1), 4=200(LC 1)

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

NOTES-

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



July 2,2025

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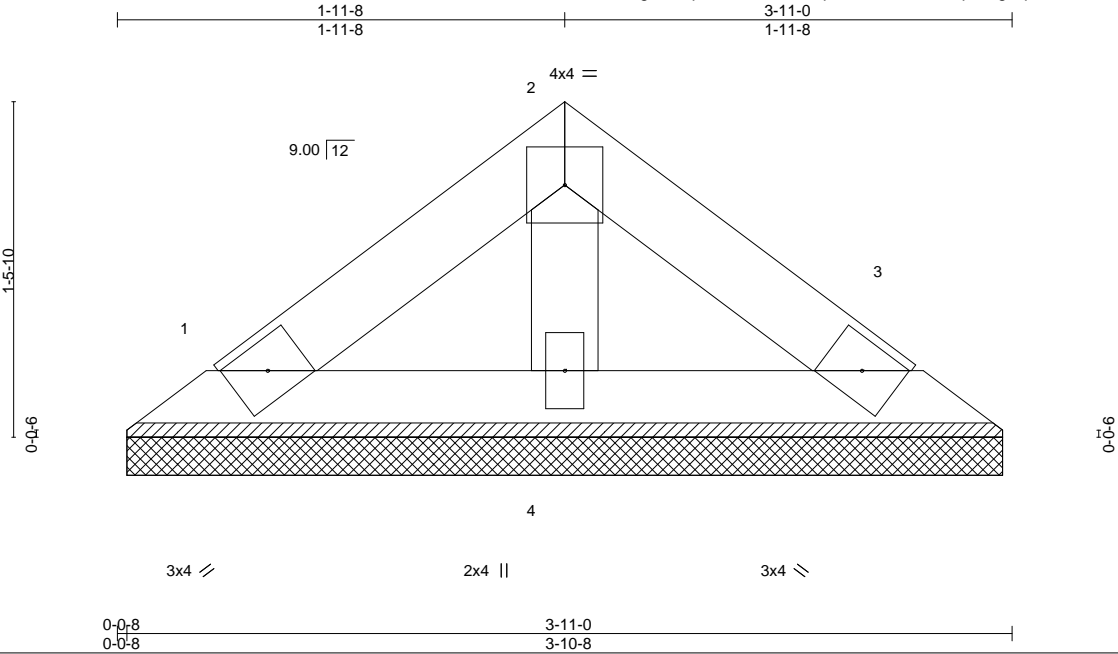
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3258	VB4	Valley	1	1	174577717
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:26:21 2025 Page 1

ID:MRVdg0cxPqsK8U739DzMHizpZIL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



Scale = 1:10.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

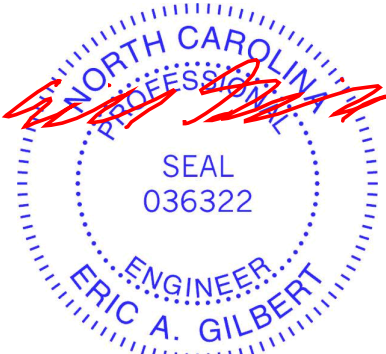
REACTIONS.

(size) 1=3-10-0, 3=3-10-0, 4=3-10-0
Max Horz 1=27(LC 8)
Max Uplift 1=11(LC 12), 3=13(LC 13)
Max Grav 1=68(LC 1), 3=68(LC 1), 4=107(LC 1)

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

NOTES-

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



July 2,2025

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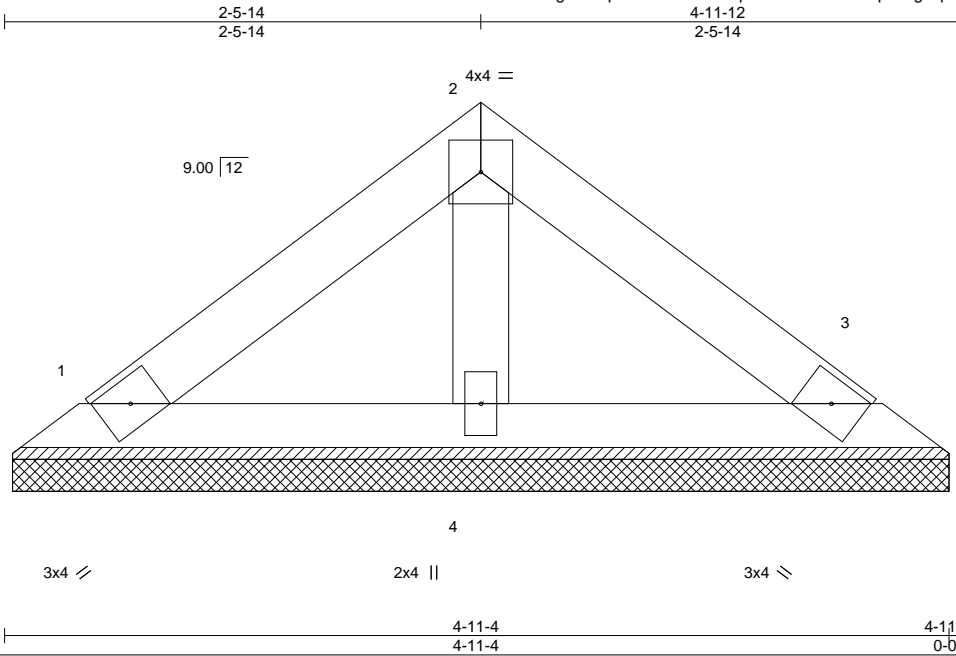
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3258	VM1	Valley	1	1	174577718
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:26:21 2025 Page 1

ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 17 lb	FT = 20%

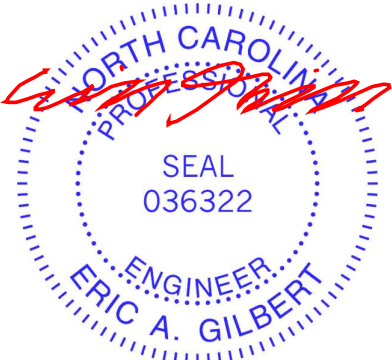
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-10-12, 3=4-10-12, 4=4-10-12
Max Horz 1=46(LC 8)
Max Uplift 1=29(LC 12), 3=35(LC 13), 4=3(LC 12)
Max Grav 1=92(LC 1), 3=92(LC 1), 4=144(LC 1)

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

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



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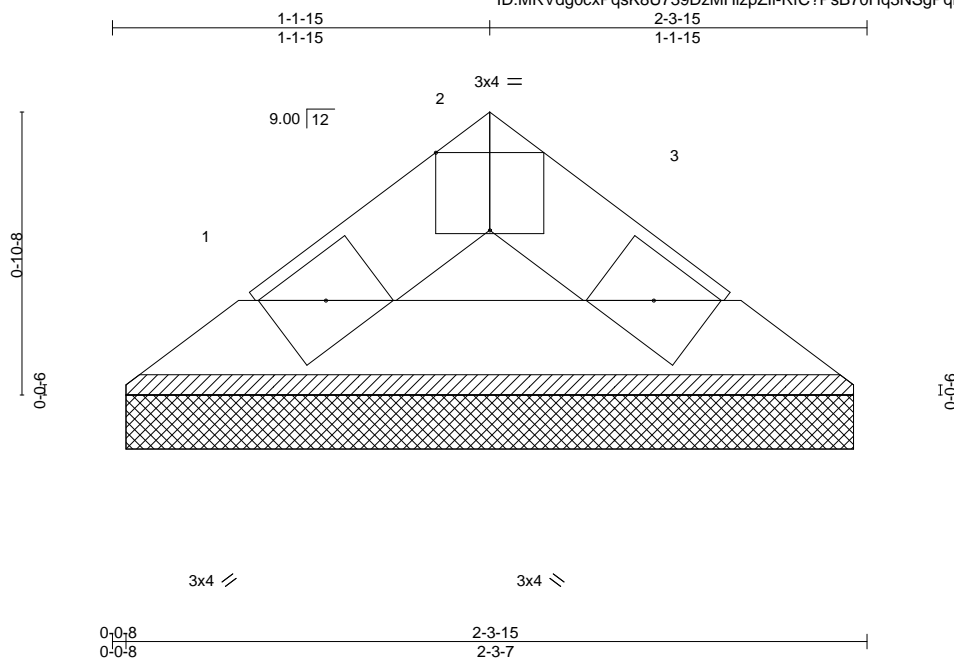


Plate Offsets (X,Y)--		[2:0-2-0,Edge]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) I/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)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

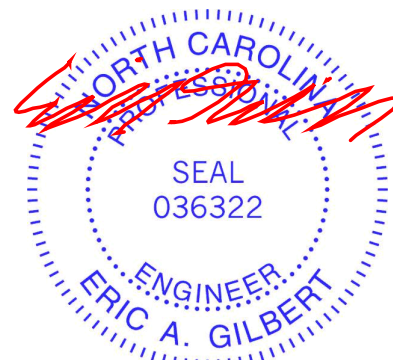
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 2-3-15 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-2-15, 3=2-2-15
 Max Horz 1=13(LC 11)
 Max Uplift 1=-3(LC 12), 3=-3(LC 13)
 Max Grav 1=58(LC 1), 3=58(LC 1)

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

NOTES-

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



July 2, 2025

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

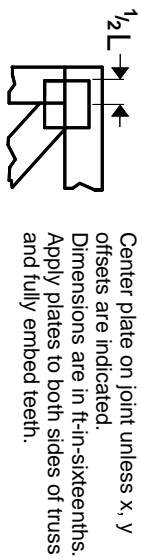
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



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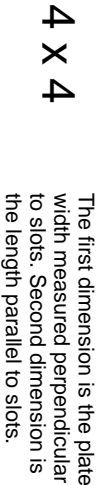
Symbols

PLATE LOCATION AND ORIENTATION

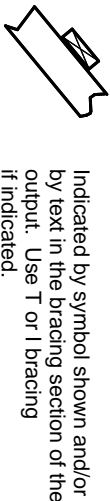


* Plate location details available in MITek software or upon request.

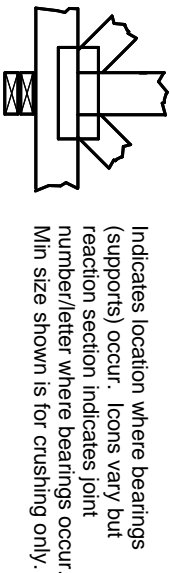
PLATE SIZE



LATERAL BRACING LOCATION

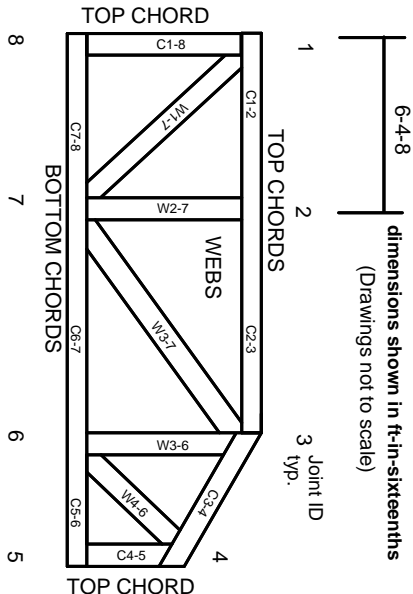


BEARING



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

Numbering System



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

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

Product Code Approvals

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

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.
Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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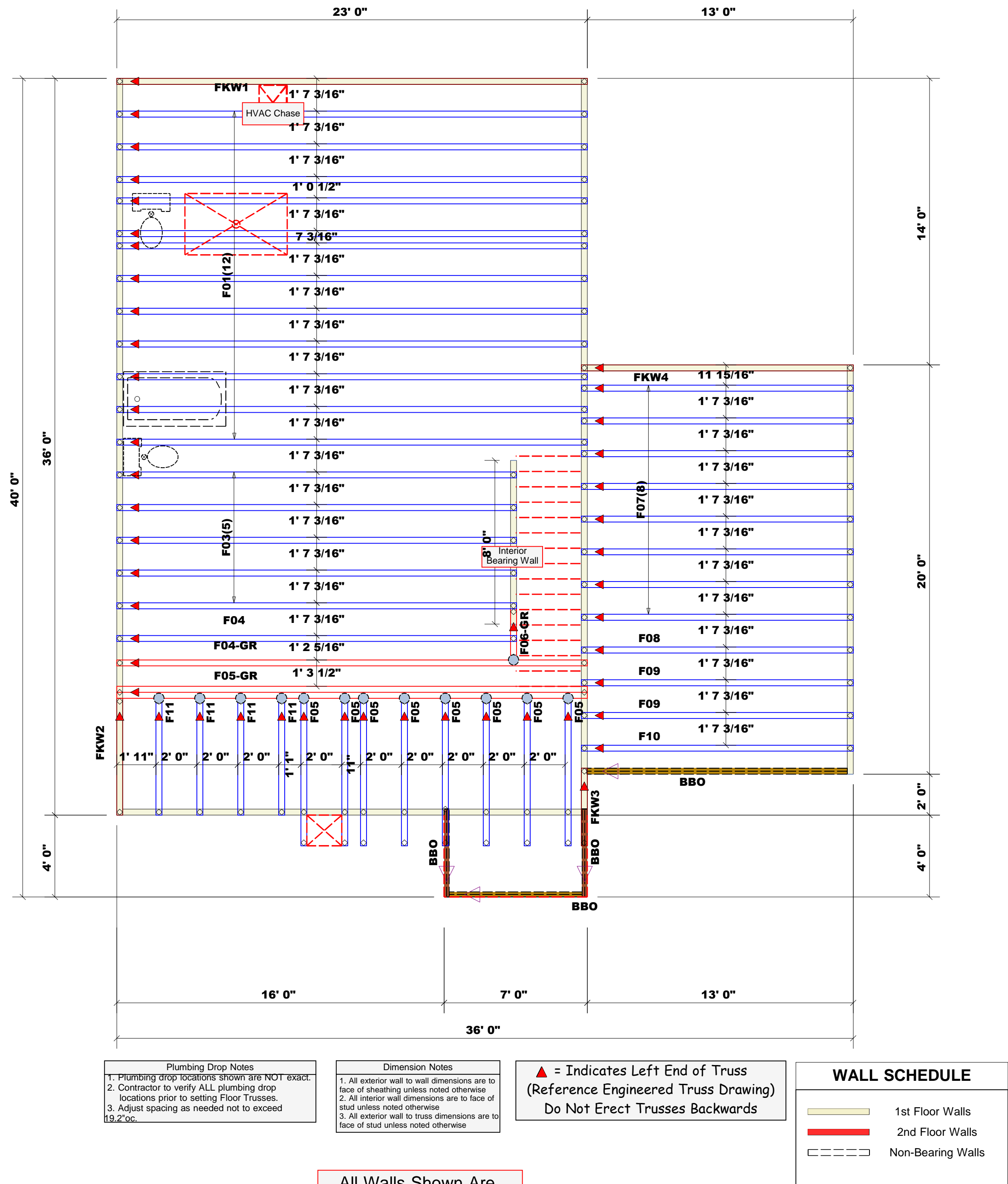
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TRENCO
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MITek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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 verifying and permitting framing of the roof and floor system and for the overall structure. The design of the truss support structure including bearing, bracing, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult RCB-81 and RCB-82 provided with the truss delivery package or online @ secondary.com

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: Johnnie Baggett
Johnnie Baggett



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.

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

▲ = 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

Connector Information					Nail Information	
Sym.	Product	Manuf	Qty	Supported Member	Header	Truss
●	MSH422	USP	13	Varies	10d/3"	10d/3"

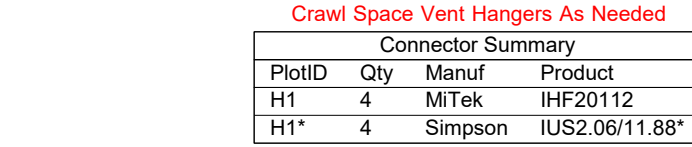
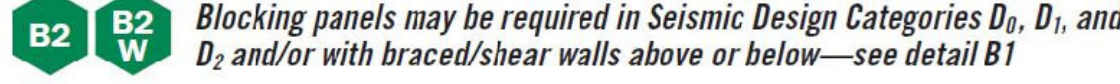
Truss Placement Plan
SCALE: NTS

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





CITY / CO.	Lillington / Harnett
ADDRESS	620 Beacon Hill Road
MODEL	Floor
DATE REV.	6/30/25
DRAWN BY	Johnnie Baggett
SALES REP.	TBD

Builder	New Home Inc.
Job Name	Lot 55 Duncan's Creek
Plan	The Wilson - Elev. A
Seal Date	7/22/22
Quote #	
Job #	J0625-3259

LOAD CHART FOR JACK STUDS									
BASED ON TABLES 502.5.1 & 503									
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS/ORDER									
REQ'D STUDS FOR 1" x 12" HEADERS	REQ'D STUDS FOR 2" x 12" HEADERS	REQ'D STUDS FOR 1" x 10" HEADERS	REQ'D STUDS FOR 2" x 10" HEADERS	REQ'D STUDS FOR 1" x 8" HEADERS	REQ'D STUDS FOR 2" x 8" HEADERS	REQ'D STUDS FOR 1" x 6" HEADERS	REQ'D STUDS FOR 2" x 6" HEADERS	REQ'D STUDS FOR 1" x 4" HEADERS	REQ'D STUDS FOR 2" x 4" HEADERS
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								



Products				
PlotID	Length	Product	Plies	Net Qty
J1	24' 0"	11 7/8" TJI® 210	1	24
J2	12' 0"	11 7/8" TJI® 210	1	5
Rim1	16' 0"	1 1/8" x 11 7/8" TJI® Rim Board	1	8
Bk1	4' 0"	11 7/8" TJI® 210	1	1

-  = Point Load From Above
 = Post / Stud Column Below
 BBO = Beam By Others
 = Load Bearing Wall
 = Non-Load Bearing Wall

Framer Notes:

*First Floor I-Joists Painted - Green (Verde)
(Primer piso I-vigas pintadas de verde.)

*Second Floor I-Joists Painted - Blue (Azul)
(Vigas en I del segundo piso pintadas de azul.)

*Third Floor I-Joists Painted - Red (Rojo)
(Tercer piso I-vigas pintadas de rojo.)

HVAC Hole Notes:

➡ = Red End (Lado Rojo)

Field Trim Non Red End To Keep Holes Aligned
(Cortar el lado sin marca roja para alinear los hoyos.)



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⁾	See Weyerhaeuser's <i>Rim Board Specifier's Guide</i> (Reorder #TJ-8000)
Floor Panel Nail: 6d (0.131" x 2½")	6" o.c.	
Toe Nail: (0.131" x 3")	6" o.c.	
Wall Sheathing	Per code	

(1) Per code, increase nailing to 4" on center for braced walls.

DRAWN BY:

JJC

DATE:

06-26-2025

SCALE:

$1/4'' = 1'-0''$

SALESPERSON:

Kevin Martin

New Home Inc.

**Lot 55 Duncans Creek
(The Wilson A - GR)**

BUILDER NAME:

PROJECT NAME:

LEVEL NAME:

1st Floor Framing Layout

PAGE: 1

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0625-3259
Lot 55 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: I74577832 thru I74577847

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

North Carolina COA: C-0844



July 2, 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.

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:27:24 2025 Page 1
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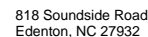
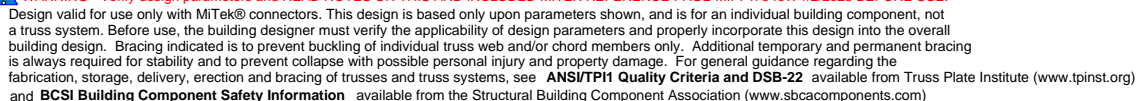
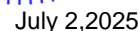
0-1-8
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TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Strongbacks to be attached to walls at their outer ends or restrained by other means.



Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3259	F03	FLOOR	5	1	174577833
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:27:24 2025 Page 1
ID:MRVdg0cxPqsK8U739DzMHiZpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

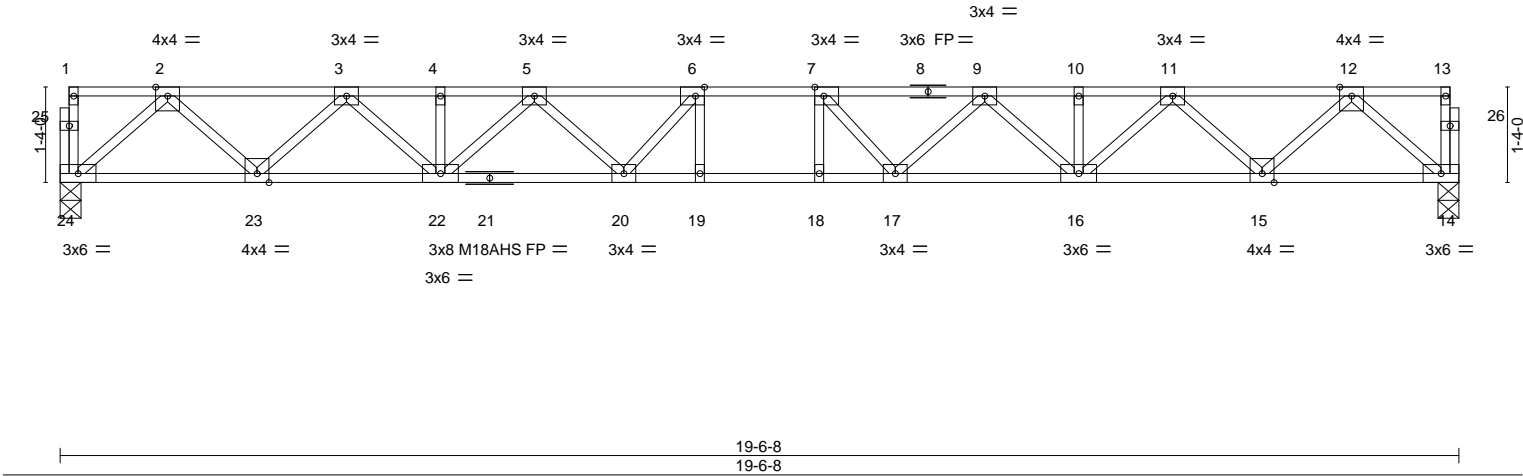
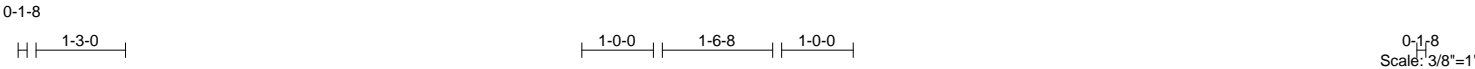


Plate Offsets (X,Y)--		[6:0-1-8,Edge], [7:0-1-8,Edge]	
LOADING (psf)		SPACING-	
TCLL 40.0		1-7-3	
TCDL 10.0		Plate Grip DOL 1.00	
BCLL 0.0		Lumber DOL 1.00	
BCDL 5.0		Rep Stress Incr YES	
		Code IRC2021/TPI2014	
		CSI.	
		TC 0.34	
		BC 0.76	
		WB 0.43	
		Matrix-S	
		DEFL.	
		in (loc) l/defl L/d	
		Vert(LL) -0.24 18-19 >957 480	
		Vert(CT) -0.33 18-19 >695 360	
		Horz(CT) 0.06 14 n/a n/a	
		PLATES	
		MT20 244/190	
		M18AHS 186/179	
		Weight: 104 lb FT = 20%F, 11%E	

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

REACTIONS.		(size) 24=0-3-8, 14=0-3-8
		Max Grav 24=843(LC 1), 14=843(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-1567/0, 3-4=-2656/0, 4-5=-2656/0, 5-6=-3226/0, 6-7=-3371/0, 7-9=-3226/0, 9-10=-2656/0, 10-11=-2656/0, 11-12=-1567/0	
BOT CHORD 23-24=0/918, 22-23=0/2193, 20-22=0/3038, 19-20=0/3371, 18-19=0/3371, 17-18=0/3371, 16-17=0/3038, 15-16=0/2193, 14-15=0/918	
WEBS 2-24=-1220/0, 2-23=0/903, 3-23=-870/0, 3-22=0/629, 12-14=-1220/0, 12-15=0/903, 11-15=-870/0, 11-16=0/629, 5-22=-519/0, 5-20=0/377, 6-20=-436/85, 9-16=-519/0, 9-17=0/377, 7-17=-436/85	

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



July 2,2025

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3259	F04	FLOOR	1	1	174577834
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:27:25 2025 Page 1
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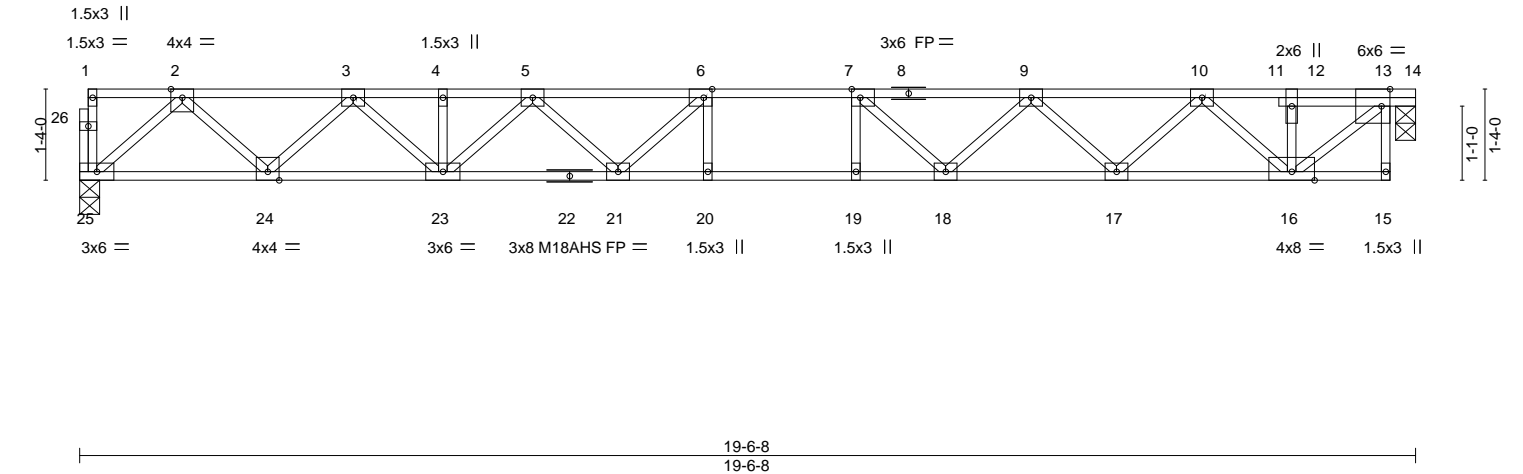
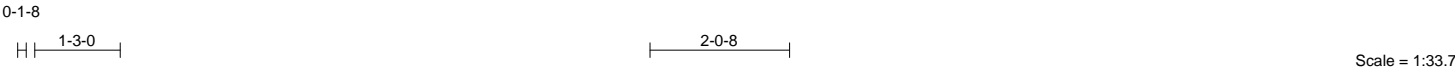


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [13:0-1-8,Edge]											
LOADING (psf)		SPACING- 1-7-3		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	40.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.27 20	>858	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.37 20	>625	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.02 14	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-S						Weight: 103 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, Except: 2-2-0 oc bracing: 19-20.

REACTIONS.

(size) 25=0-3-8, 14=0-3-8
Max Grav 25=849(LC 1), 14=850(LC 1)

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

TOP CHORD 2-3=-1580/0, 3-4=-2676/0, 4-5=-2676/0, 5-6=-3256/0, 6-7=-3399/0, 7-9=-3110/0, 9-10=-2367/0, 10-12=-1209/0, 12-13=-1209/0
BOT CHORD 24-25=0/924, 23-24=0/2211, 21-23=0/3078, 20-21=0/3399, 19-20=0/3399, 18-19=0/3399, 17-18=0/2846, 16-17=0/1861
WEBS 12-16=-394/0, 13-16=0/1574, 2-25=-1228/0, 2-24=0/912, 3-24=-878/0, 3-23=0/633, 5-23=-546/0, 5-21=0/369, 6-21=-453/108, 10-16=-886/0, 10-17=0/703, 9-17=-667/0, 9-18=0/449, 7-18=-589/0

NOTES-

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



July 2,2025

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 55 Duncan's Creek
J0625-3259	F04-GR	FLOOR GIRDER	1	1	174577835
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:27:25 2025 Page 1
ID:MRVdg0cxPqsK8U739DzMHiZpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8
1-3-0
2-0-0
0-1-8
Scale = 1:39.6

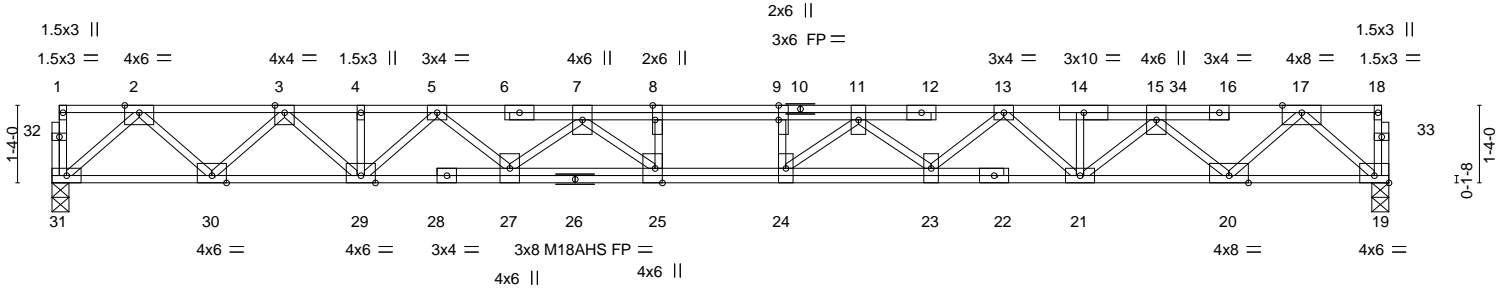


Plate Offsets (X,Y)--		[8:0-3-0,Edge], [9:0-3-0,0-0-0], [19:Edge,0-1-8], [25:0-3-0,Edge]	
LOADING (psf)	SPACING-	1-7-3	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.44
TCDL 10.0	Lumber DOL	1.00	BC 0.65
BCLL 0.0	Rep Stress Incr	NO	WB 0.78
BCDL 5.0	Code IRC2021/TPI2014		Matrix-S
DEFL.	in (loc)	L/defl	L/d
Vert(LL)	-0.33 24	>837	480
Vert(CT)	-0.45 24	>606	360
Horz(CT)	0.08 19	n/a	n/a
PLATES	GRIP		
MT20	244/190		
M18AHS	186/179		
Weight: 147 lb		FT = 20%F, 11%E	

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 31=0-3-8, 19=0-3-8
Max Grav 31=1060(LC 1), 19=1354(LC 1)

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

TOP CHORD 2-3=-2041/0, 3-4=-3571/0, 4-5=-3571/0, 5-7=-4830/0, 7-8=-5867/0, 8-9=-5867/0,
9-11=-5867/0, 11-13=-5246/0, 13-14=-4236/0, 14-15=-4244/0, 15-17=-2700/0
BOT CHORD 30-31=0/1166, 29-30=0/2878, 27-29=0/4226, 25-27=0/5419, 24-25=0/5867, 23-24=0/5677,
21-23=0/4752, 20-21=0/3882, 19-20=0/1498
WEBS 2-31=-1551/0, 2-30=0/1216, 3-30=-1164/0, 3-29=0/943, 5-29=-890/0, 5-27=0/814,
7-27=-785/0, 17-19=-1992/0, 17-20=0/1642, 15-20=-1633/0, 15-21=0/471, 13-21=-702/0,
13-23=0/664, 11-23=-576/0, 11-24=-199/544, 9-24=-251/50, 7-25=0/894, 8-25=-397/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 474 lb down at 19-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 19-31=-8, 1-18=-80
Concentrated Loads (lb)
Vert: 34=-423(B)



July 2, 2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3259	F05	Floor	8	1	174577836
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:27:26 2025 Page 1
ID:MRVdg0cxPqsK8U739DzMhizpZII-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

1-3-0 2-5-8

0-1-8

Scale = 1:13.4

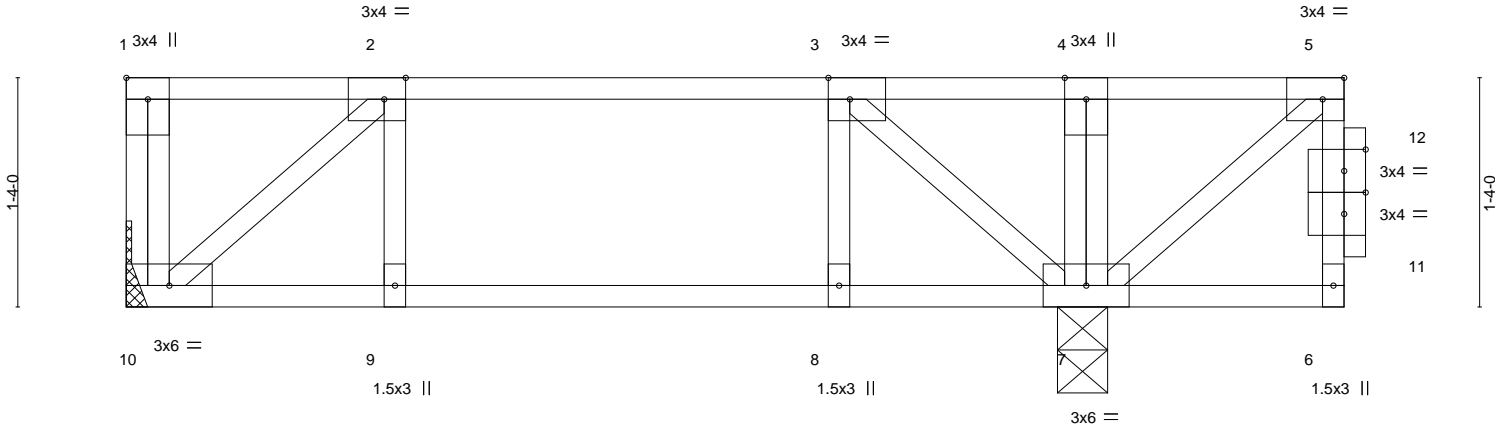


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge], [5:0-1-8,Edge], [11:0-1-8,0-1-8], [12:0-1-8,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.72
TCDL 10.0	Lumber DOL	1.00	BC 0.50
BCLL 0.0	Rep Stress Incr	NO	WB 0.18
BCDL 5.0	Code IRC2021/TPI2014		Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.04 9 >999 480
		Vert(CT)	-0.06 9 >999 360
		Horz(CT)	-0.00 7 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 41 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)

REACTIONS.

(size) 10=Mechanical, 7=0-3-8
Max Uplift 10=31(LC 4)
Max Grav 10=202(LC 3), 7=921(LC 1)

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

TOP CHORD 3-4=0/529, 4-5=0/529
WEBS 3-7=-741/0, 5-7=-691/0

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 10.
- 5) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-10=-10, 1-5=-100
Concentrated Loads (lb)
Vert: 5=-350

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, Except: 10-0-0 oc bracing: 6-7.



July 2,2025

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 55 Duncan's Creek
J0625-3259	F05-GR	FLOOR GIRDER	1	2	174577837
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:27:26 2025 Page 1
ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f

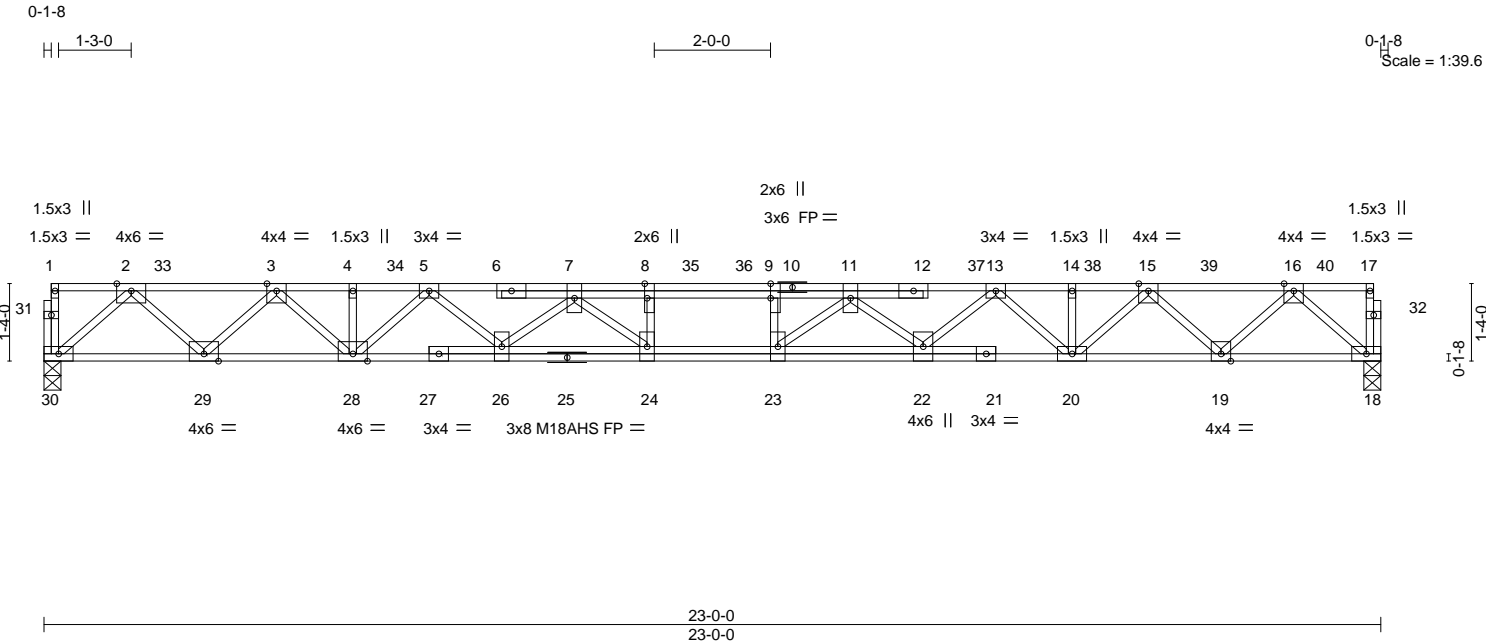


Plate Offsets (X,Y)--	[8:0-3-0,Edge], [9:0-3-0,0-0]		23-0-0 23-0-0			
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.33	Vert(LL)	-0.29 24	>926 480
TCDL 10.0	Lumber DOL	1.00	BC 0.58	Vert(CT)	-0.41 24	>661 360
BCLL 0.0	Rep Stress Incr	NO	WB 0.59	Horz(CT)	0.07 18	n/a n/a
BCDL 5.0	Code IRC2021/TP12014		Matrix-S			
				PLATES	GRIP	
				MT20	244/190	
				M18AHS	186/179	
				Weight: 286 lb	FT = 20%F, 11%E	

LUMBER-

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

BRACING-

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

REACTIONS. (size) 30=0-3-8, 18=0-3-8
Max Grav 30=2147(LC 1), 18=1975(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4199/0, 3-4=-7218/0, 4-5=-7218/0, 5-7=-9509/0, 7-8=-10837/0, 8-9=-10837/0, 9-11=-10837/0, 11-13=-8914/0, 13-14=-6590/0, 14-15=-6590/0, 15-16=-3767/0
BOT CHORD 29-30=0/2428, 28-29=0/5911, 26-28=0/8476, 24-26=0/10459, 23-24=0/10837, 22-23=0/10011, 20-22=0/7802, 19-20=0/5312, 18-19=0/2167
WEBS 2-30=-3232/0, 2-29=0/2463, 3-29=-2382/0, 3-28=0/1777, 16-18=-2881/0, 16-19=0/2225, 15-19=-2149/0, 15-20=0/1738, 13-20=-1647/0, 13-22=0/1504, 11-22=-1456/0, 11-23=0/1283, 5-28=-1709/0, 5-26=0/1391, 7-26=-1267/25, 7-24=-532/642, 8-24=-317/241, 9-23=-620/0

NOTES-

- 1) Fasten trusses together to act as a single unit as per standard industry detail, or loads are to be evenly applied to all plies.
- 2) Unbalanced floor live loads have been considered for this design.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 3x6 MT20 unless otherwise indicated.
- 5) Plates checked for a plus or minus 1 degree rotation about its center.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 280 lb down at 2-0-12, 280 lb down at 4-0-12, 280 lb down at 6-0-12, 280 lb down at 8-0-12, 182 lb down and 131 lb up at 9-1-12, 114 lb down and 131 lb up at 11-1-12, 122 lb down and 131 lb up at 12-0-12, 182 lb down and 131 lb up at 14-0-12, 182 lb down and 131 lb up at 16-0-12, 182 lb down and 131 lb up at 18-0-12, and 182 lb down and 131 lb up at 20-0-12, and 185 lb down and 121 lb up at 22-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 18-30=-10, 1-17=-100



July 2,2025

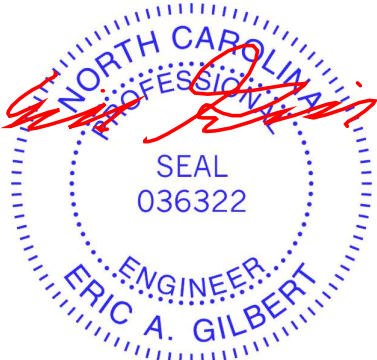
Continued on page 2

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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3259	F05-GR	FLOOR GIRDER	1	2	174577837
					Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-200(F) 11=-102(F) 7=-102(F) 6=-200(F) 33=-200(F) 34=-200(F) 35=-102(F) 36=-102(F) 37=-102(F) 38=-102(F) 39=-102(F) 40=-115(F)

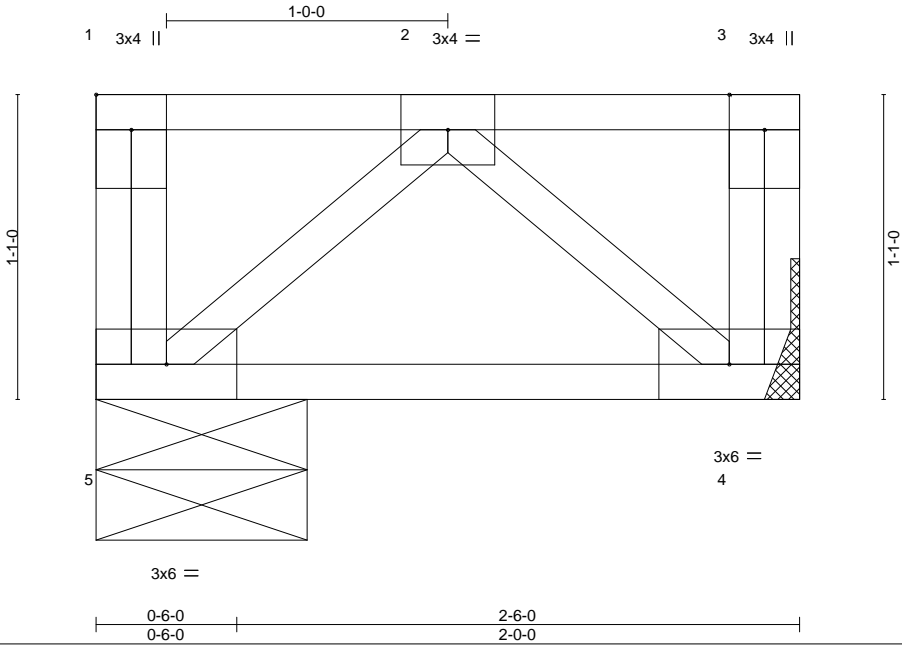


July 2,2025

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3259	F06-GR	FLOOR GIRDER	1	1	174577838
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:27:27 2025 Page 1
ID:MRVdg0cxPqsK8U739DzMHiZpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:8.2

Plate Offsets (X,Y)--		[1:Edge,0-1-8]	
LOADING (psf)	SPACING-	1-7-3	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.05
TCDL 10.0	Lumber DOL	1.00	BC 0.12
BCLL 0.0	Rep Stress Incr	NO	WB 0.16
BCDL 5.0	Code IRC2021/TPI2014		Matrix-P
DEFL.	in (loc)	l/defl	L/d
Vert(LL) 0.00	5	****	480
Vert(CT) -0.00	4-5	>999	360
Horz(CT) 0.00	4	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 16 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 2-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-9-0, 4=Mechanical
Max Grav 5=487(LC 1), 4=487(LC 1)

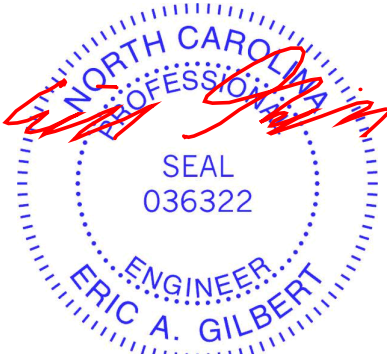
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=0/514
WEBS 2-4=-675/0, 2-5=-675/0

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 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-5=-8, 1-3=-80
Concentrated Loads (lb)
Vert: 2=-776



July 2,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3259	F07	FLOOR	8	1	174577839
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:27:27 2025 Page 1
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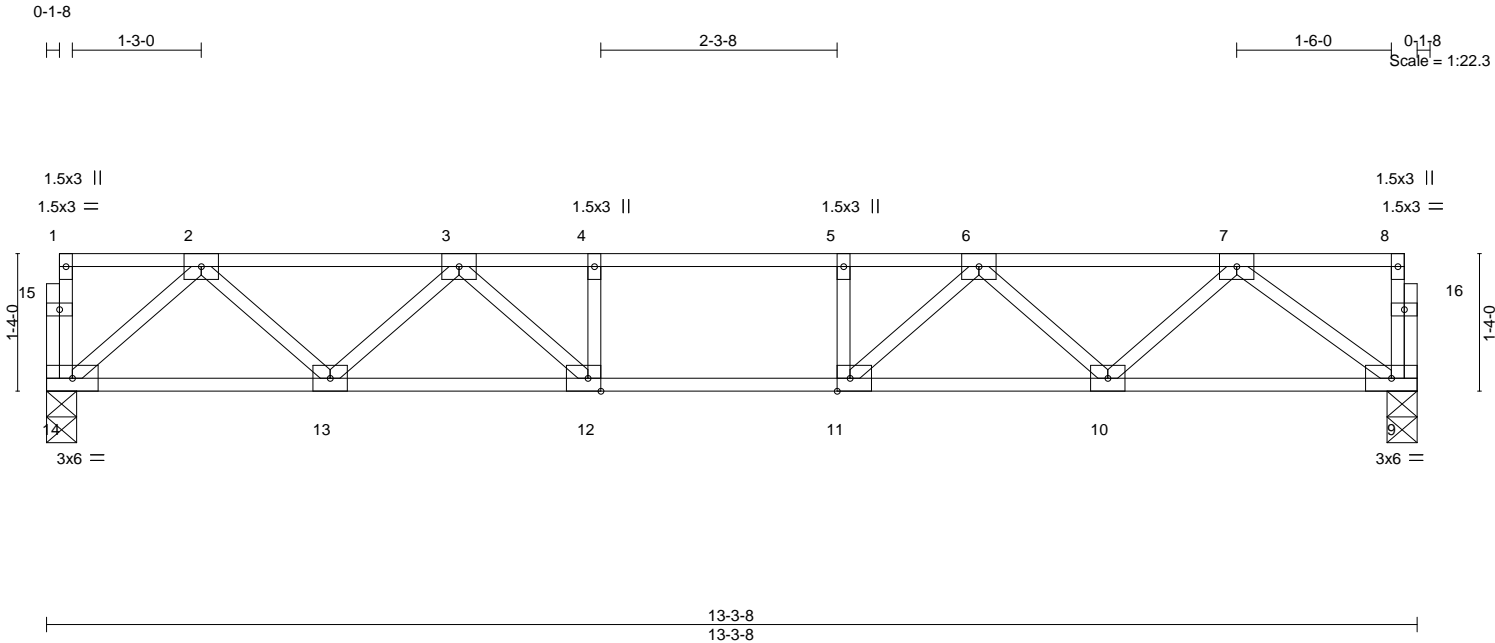


Plate Offsets (X,Y)--		[11:0-1-8,Edge], [12:0-1-8,Edge]	
LOADING (psf)	SPACING-	1-7-3	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.36
TCDL 10.0	Lumber DOL	1.00	BC 0.39
BCLL 0.0	Rep Stress Incr	YES	WB 0.24
BCDL 5.0	Code	IRC2021/TPI2014	Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.09 10-11 >999 480
		Vert(CT)	-0.11 10-11 >999 360
		Horz(CT)	0.02 9 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 68 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) 14=0-3-8, 9=0-3-8
Max Grav 14=568(LC 1), 9=568(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-970/0, 3-4=-1514/0, 4-5=-1514/0, 5-6=-1514/0, 6-7=-1042/0
BOT CHORD 13-14=0/608, 12-13=0/1311, 11-12=0/1514, 10-11=0/1356, 9-10=0/700
WEBS 7-9=-870/0, 7-10=0/476, 6-10=-436/0, 6-11=0/385, 2-14=-807/0, 2-13=0/503, 3-13=-475/0, 3-12=0/429

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 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



July 2,2025

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ENGINEERING BY
TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3259	F08	FLOOR	1	1	174577840
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:27:27 2025 Page 1
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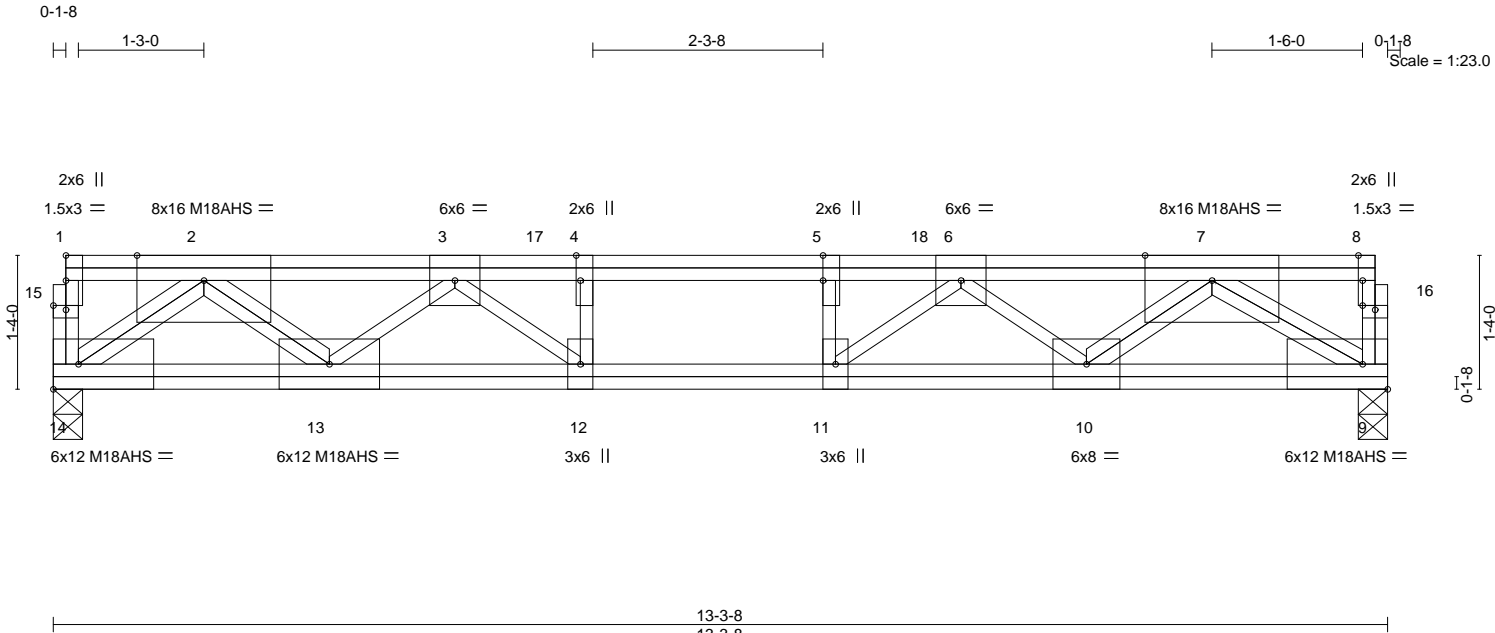


Plate Offsets (X,Y)--		[4:0-3-0,Edge], [5:0-3-0,0-0-0], [8:0-3-0,Edge], [15:0-1-8,0-0-8], [16:0-1-8,0-0-8]	
LOADING (psf)	SPACING-	1-7-3	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.71
TCDL 10.0	Lumber DOL	1.00	BC 0.94
BCLL 0.0	Rep Stress Incr	NO	WB 0.63
BCDL 5.0	Code IRC2021/TPI2014		Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.17 11-12 >903 480
		Vert(CT)	-0.24 11-12 >656 360
		Horz(CT)	0.06 9 n/a n/a
		PLATES	GRIP
		MT20	244/190
		M18AHS	186/179
		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)

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, 9=0-3-8
Max Grav 14=3530(LC 1), 9=3475(LC 1)

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

TOP CHORD 1-14=-256/0, 8-9=-361/0, 2-3=-5942/0, 3-4=-7920/0, 4-5=-7920/0, 5-6=-7920/0, 6-7=-6134/0
BOT CHORD 13-14=0/4146, 12-13=0/7869, 11-12=0/7920, 10-11=0/7796, 9-10=0/4605
WEBS 3-13=-2504/0, 6-10=-2159/0, 6-11=-29/336, 2-14=-5260/0, 2-13=0/2425, 7-10=0/2052, 7-9=-5527/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-14=-8, 1-17=-726, 17-18=-80, 8-18=-726



July 2,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3259	F09	Floor	2	1	174577841
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:27:28 2025 Page 1
ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

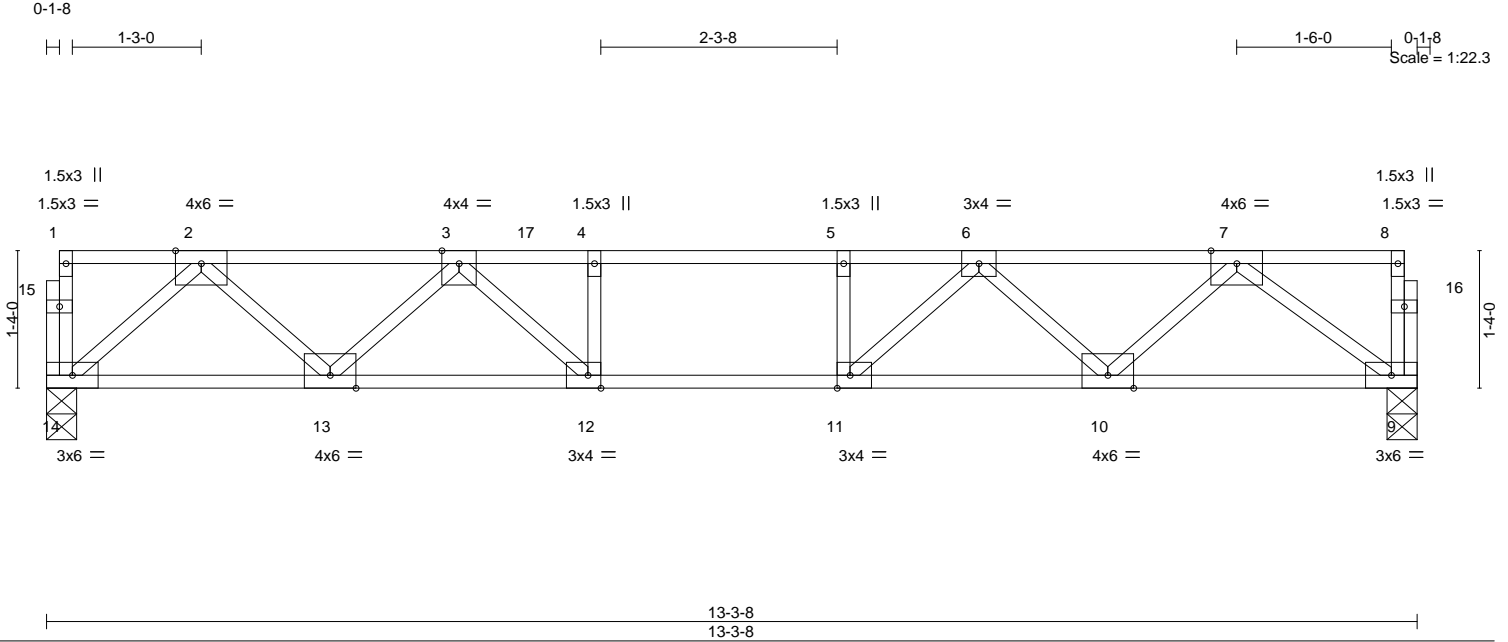


Plate Offsets (X,Y)--		[11:0-1-8,Edge], [12:0-1-8,Edge]	
LOADING (psf)		SPACING-	1-7-3
TCLL	40.0	Plate Grip DOL	1.00
TCDL	10.0	Lumber DOL	1.00
BCLL	0.0	Rep Stress Incr	NO
BCDL	5.0	Code	IRC2021/TPI2014
		CSI.	
		TC	0.82
		BC	1.00
		WB	0.72
		Matrix-S	
		DEFL.	
		in (loc)	l/defl L/d
		Vert(LL)	-0.17 12-13 >922 480
		Vert(CT)	-0.22 12-13 >700 360
		Horz(CT)	0.05 9 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 68 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)

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, 9=0-3-8
Max Grav 14=1243(LC 1), 9=1294(LC 1)

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

TOP CHORD 2-3=-2450/0, 3-4=-4051/0, 4-5=-4051/0, 5-6=-4051/0, 6-7=-2753/0
BOT CHORD 13-14=0/1359, 12-13=0/3506, 11-12=0/4051, 10-11=0/3824, 9-10=0/1670
WEBS 2-14=-1806/0, 2-13=0/1518, 3-13=-1468/0, 3-12=0/896, 4-12=-578/0, 7-9=-2078/0, 7-10=0/1507, 6-10=-1489/0, 6-11=0/481

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) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-14=-8, 1-8=-80
Concentrated Loads (lb)
Vert: 6=-700 17=-700



July 2,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3259	F10	FLOOR	1	1	174577842
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:27:28 2025 Page 1
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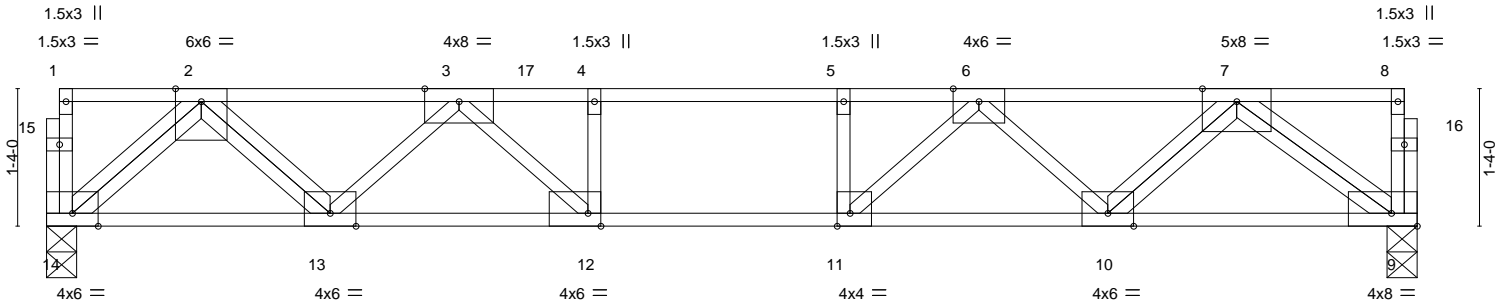
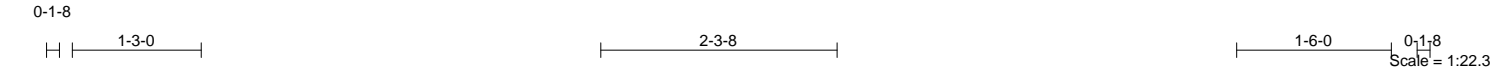


Plate Offsets (X,Y)--		[9:Edge,0-1-8], [11:0-1-8,Edge], [12:0-1-8,Edge]	
LOADING (psf)		SPACING- 1-7-3	
TCLL 40.0		Plate Grip DOL 1.00	
TCDL 10.0		Lumber DOL 1.00	
BCLL 0.0		Rep Stress Incr NO	
BCDL 5.0		Code IRC2021/TPI2014	
CSI.		DEFL.	
TC 0.88		in (loc) l/defl L/d	
BC 0.73		Vert(LL) -0.19 11 >834 480	
WB 0.78		Vert(CT) -0.25 11 >627 360	
Matrix-S		Horz(CT) 0.06 9 n/a n/a	
		PLATES GRIP	
		MT20 244/190	
		Weight: 78 lb FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD 2x4 SP 2400F 2.0E(flat)		TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.	
BOT CHORD 2x4 SP 2400F 2.0E(flat)		BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.	
WEBS 2x4 SP No.3(flat)			

REACTIONS. (size) 14=0-3-8, 9=0-3-8
Max Grav 14=1658(LC 1), 9=1741(LC 1)

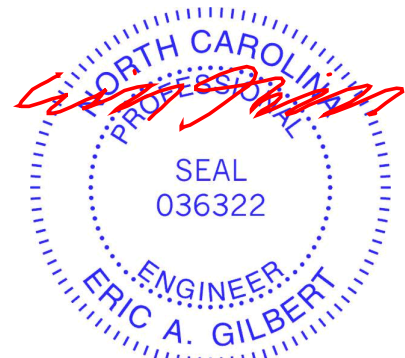
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3286/0, 3-4=-5920/0, 4-5=-5920/0, 5-6=-5920/0, 6-7=-3766/0
BOT CHORD 13-14=0/1834, 12-13=0/4830, 11-12=0/5920, 10-11=0/5346, 9-10=0/2258
WEBS 2-14=-2439/0, 2-13=0/2059, 3-13=-2110/0, 3-12=0/1633, 4-12=-1038/0, 7-9=-2818/0, 7-10=0/2128, 6-10=-2159/0, 6-11=0/949, 5-11=-590/0

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) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-14=-8, 1-17=-80, 6-17=-280, 6-8=-80
Concentrated Loads (lb)
Vert: 6=700 17=700



July 2,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek	174577843
J0625-3259	F11	Floor	4	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:27:28 2025 Page 1

ID:MRVdg0cxPqsK8U739DzMHiZpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

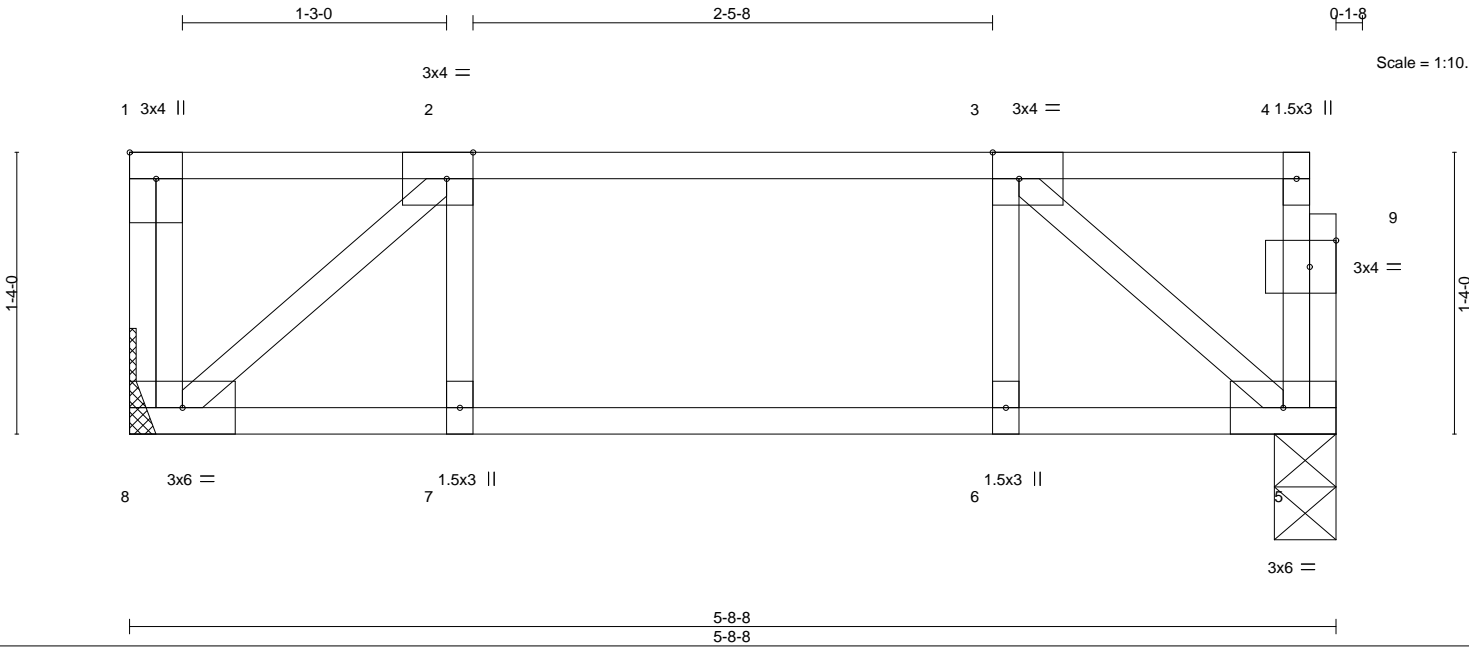


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,0-1-8]							
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	-0.01 7 >999 480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.12	Vert(CT)	-0.01 7 >999 360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00 5 n/a n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-S				Weight: 31 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-

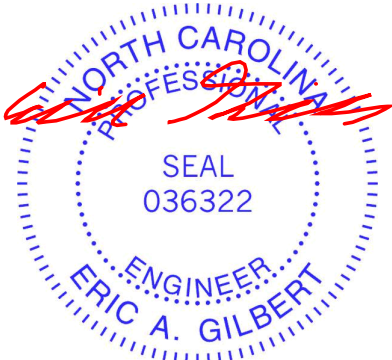
TOP CHORD Structural wood sheathing directly applied or 5-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=0-3-8
Max Grav 8=300(LC 1), 5=294(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-304/0
BOT CHORD 7-8=0/304, 6-7=0/304, 5-6=0/304
WEBS 2-8=-397/0, 3-5=-394/0

NOTES-

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



July 2,2025

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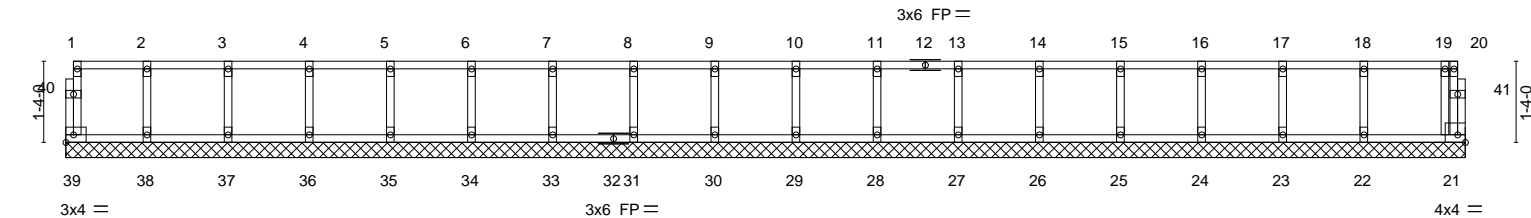
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TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek	174577844
J0625-3259	FKW1	Floor Supported Gable	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 1 16:49:54 2025 Page 1
ID:MRVdg0cxPqsK8U739DzMhizpZII-KRd3Li89nNZ??Zm?sL?mD_mVNIDIOVqDAqcs2Fz0NLx

0-1-8 0-1-8
Scale = 1:37.9



LOADING (psf)		SPACING- 1-7-3		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	in (loc)	l/defl	MT20		244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.01	n/a	n/a				
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	n/a	n/a				
BCDL	5.0	Code IRC2021/TPI2014		Matrix-R		0.00	21				
								Weight: 101 lb		FT = 20%F, 11%E	

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

REACTIONS. All bearings 23-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 39, 21, 38, 37, 36, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

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

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



July 2,2025

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek	174577845
J0625-3259	FKW2	Floor Supported Gable	1	1	Job Reference (optional)	

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8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:27:29 2025 Page 1
ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8

Scale = 1:10.9

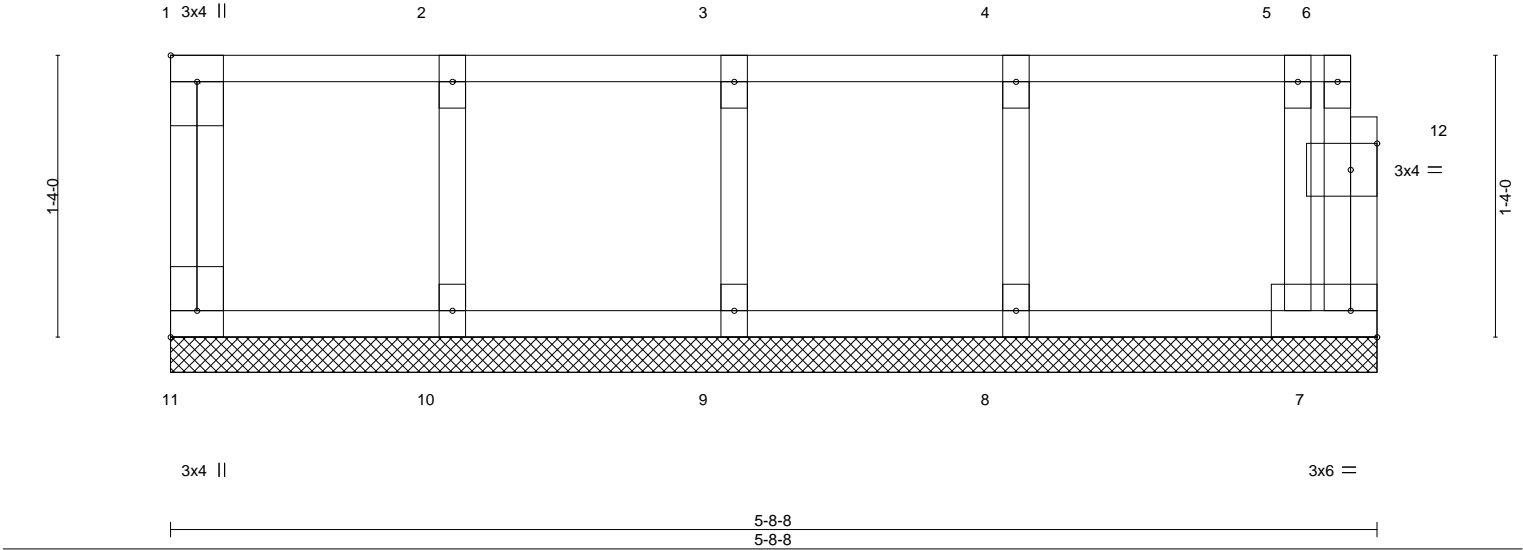


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [11:Edge,0-1-8], [12:0-1-8,0-1-8]	
LOADING (psf)	SPACING-	1-7-3	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.05
TCDL 10.0	Lumber DOL	1.00	BC 0.02
BCLL 0.0	Rep Stress Incr	YES	WB 0.03
BCDL 5.0	Code	IRC2021/TPI2014	Matrix-R
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	n/a	-	n/a 999
Vert(CT)	n/a	-	n/a 999
Horz(CT)	0.00	7	n/a n/a
PLATES	GRIP		
MT20	244/190		
Weight: 29 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 5-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 5-8-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 11, 7, 10, 9, 8

FORCES.

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

NOTES-

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



July 2,2025

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TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek	174577846
J0625-3259	FKW3	FLOOR SUPPORTED GABL	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:27:29 2025 Page 1
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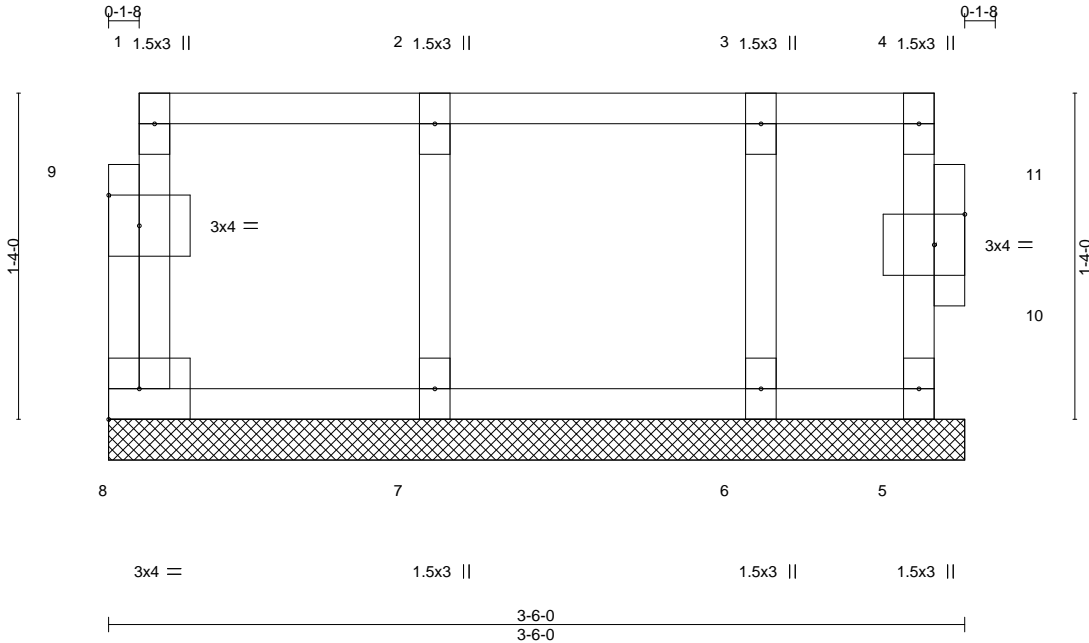


Plate Offsets (X,Y)--		[9:0-1-8,0-1-8], [10:0-1-8,0-1-8]					
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 40.0		Plate Grip DOL 1.00		TC 0.06	Vert(LL) n/a - n/a	999	MT20 244/190
TCDL 10.0		Lumber DOL 1.00		BC 0.01	Vert(CT) n/a - n/a	999	
BCLL 0.0		Rep Stress Incr YES		WB 0.03	Horz(CT) 0.00 5 n/a	n/a	
BCDL 5.0		Code IRC2021/TPI2014		Matrix-R			Weight: 19 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 3-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 3-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

FORCES.

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

NOTES-

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



July 2,2025

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TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 55 Duncan's Creek
J0625-3259	FKW4	Floor Supported Gable	1	1	174577847
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

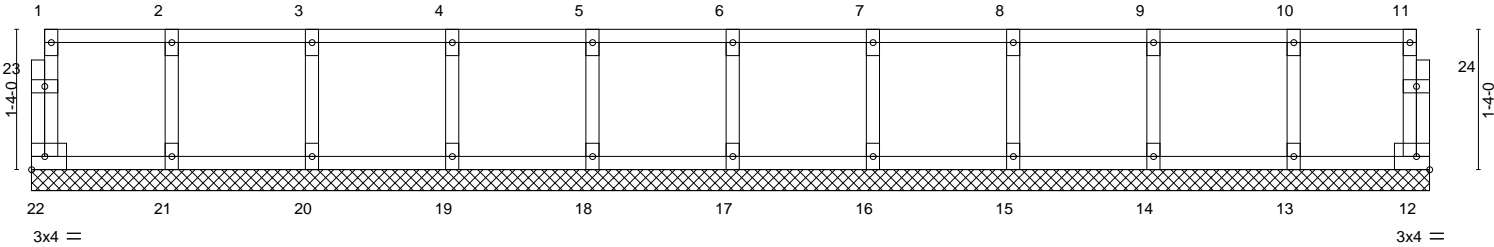
8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Jun 30 13:27:30 2025 Page 1

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01:8

01:8

Scale = 1:21.9



13-3-8									
13-3-8									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	40.0	Plate Grip DOL	2-0-0	TC	0.06	in (loc)	L/defl	MT20	GRIP
TCDL	10.0	Lumber DOL	1.00	BC	0.01	n/a	n/a		244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-R		0.00	12	Weight: 60 lb	FT = 20%F, 11%E

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

REACTIONS. All bearings 13-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

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



July 2,2025

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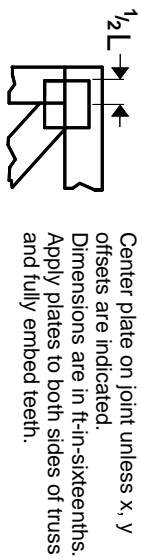
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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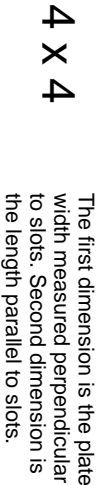
Symbols

PLATE LOCATION AND ORIENTATION

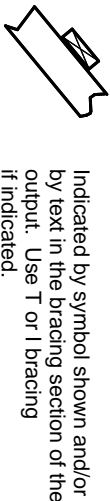


* Plate location details available in MITek software or upon request.

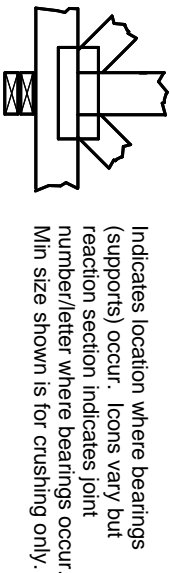
PLATE SIZE



LATERAL BRACING LOCATION

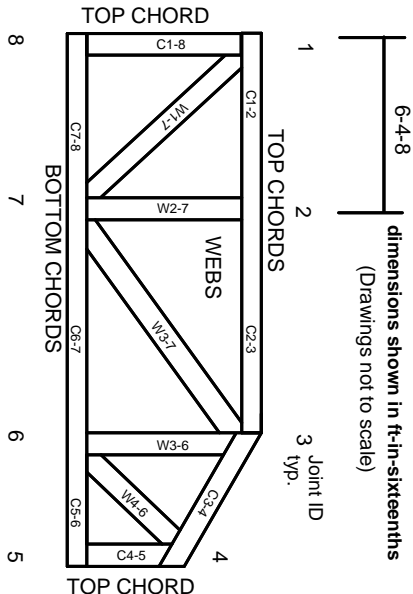


BEARING



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

Numbering System



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

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

Product Code Approvals

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

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.
Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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