

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0325-1553
Lot 8 Graham Mill Lane

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: I72726305 thru I72726316

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

North Carolina COA: C-0844

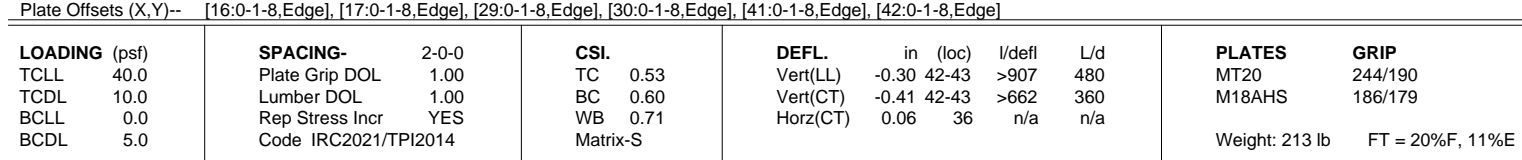


April 15, 2025

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.

Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:34:02 2025 Page 1
ID:tpZlv46Jpk9SvtxrZpWkKFzu5_4-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCdoi7J4zJC?f




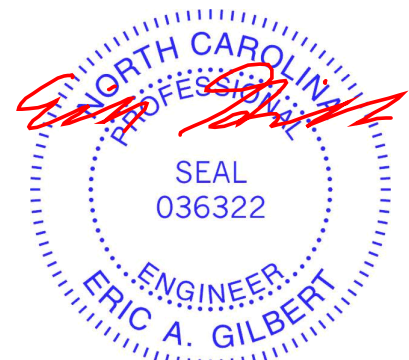
REACTIONS. All bearings 0-5-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 46=1098(LC 16), 27=609(LC 4), 32=956(LC 4), 36=1852(LC 16).

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1806/0, 3-4=-3080/0, 4-5=-3080/0, 5-6=-3799/0, 6-7=-3943/0, 7-8=-3943/0, 8-9=-3943/0, 9-11=-3119/0, 11-12=-1943/0, 12-13=-1943/0, 14-15=0/2420, 15-16=0/2420, 16-17=0/1971, 17-19=0/1771, 19-20=0/1771, 20-21=-428/857, 21-22=-1180/281, 22-23=-1180/281, 23-24=-1180/281, 24-25=-857/0
BOT CHORD	45-46=0/1053, 44-45=0/2532, 43-44=0/3549, 42-43=0/3997, 41-42=0/3943, 39-41=0/3584, 38-39=0/2656, 37-38=0/1146, 36-37=-1092/0, 34-36=-1971/0, 33-34=-1971/0, 32-33=-1971/0, 31-32=-1087/0, 30-31=-603/863, 29-30=-281/1180, 28-29=-69/1128, 27-28=0/542
WEBS	2-46=-1487/0, 2-45=0/1120, 3-45=-1079/0, 3-44=0/793, 14-36=-1882/0, 14-37=0/1495, 13-37=-1459/0, 13-38=0/1180, 11-38=-1058/0, 11-39=0/710, 9-39=-720/0, 5-44=-679/0, 5-43=0/372, 6-43=-324/0, 6-42=-412/347, 9-41=0/819, 8-41=-410/0, 16-36=-822/0, 17-32=-122/506, 25-27=-784/0, 25-28=-17/469, 24-28=-403/112, 24-29=-308/74, 20-32=-1111/0, 20-31=0/766, 21-31=-816/0, 21-30=0/808, 22-30=-412/0

NOTES-

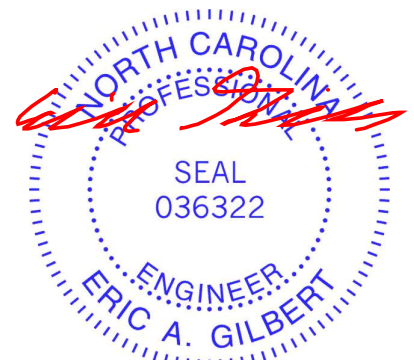
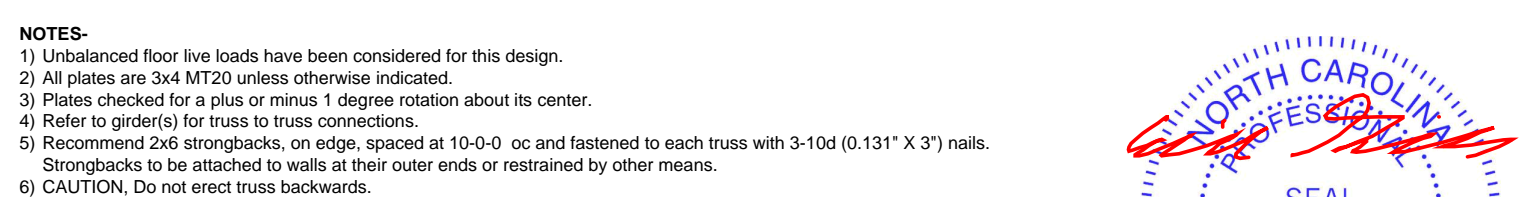
- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, 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.





April 15, 2025

Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:34:03 2025 Page 1
ID:tpZlv46Jpk9SvtxrZpWkKFzu5_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDoi7J4Jc?f



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)

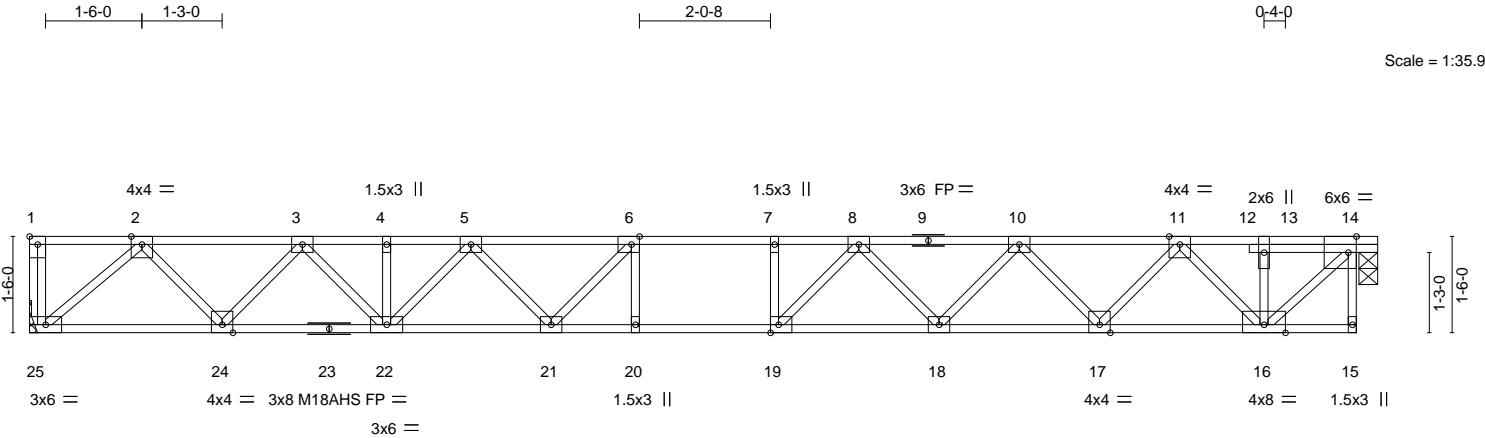


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane
J0325-1553	F03	Floor	1	1	172726307

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:34:04 2025 Page 1
ID:tpZlv46Jpk9SvtxrZpWkKFzu5_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



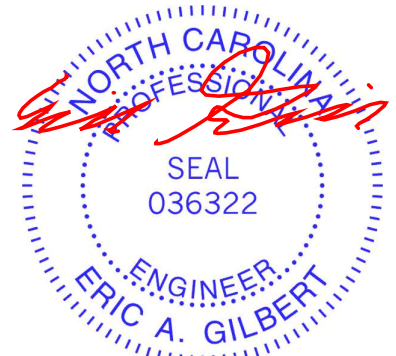
										20-8-0		21-0-0	
										20-8-0		0-4-0	
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [14:0-1-8,Edge], [19:0-1-8,Edge]													
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.25	20	>978	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.34	20	>714	360	M18AHS	186/179	
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.02	14	n/a	n/a			
BCDL	5.0	Code IRC2021/TPI2014		Matrix-S							Weight: 115 lb	FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP 2400F 2.0E(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 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) 25=Mechanical, 14=0-3-8
Max Grav 25=1126(LC 1), 14=1126(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2000/0, 3-4=-3264/0, 4-5=-3264/0, 5-6=-3960/0, 6-7=-4163/0, 7-8=-4163/0, 8-10=-3583/0, 10-11=-2580/0, 11-13=-1069/0, 13-14=-1069/0
BOT CHORD 24-25=0/1251, 22-24=0/2720, 21-22=0/3730, 20-21=0/4163, 19-20=0/4163, 18-19=0/3947, 17-18=0/3205, 16-17=0/1929
WEBS 14-16=0/1478, 2-25=-1638/0, 2-24=0/1113, 3-24=-1072/0, 3-22=0/787, 11-16=-1246/0, 11-17=0/967, 10-17=-929/0, 10-18=0/562, 8-18=-541/0, 8-19=-107/660, 7-19=-313/0, 5-22=-675/0, 5-21=0/491, 6-21=-596/95

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Plates checked for a plus or minus 1 degree rotation about its center.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 8) CAUTION, Do not erect truss backwards.



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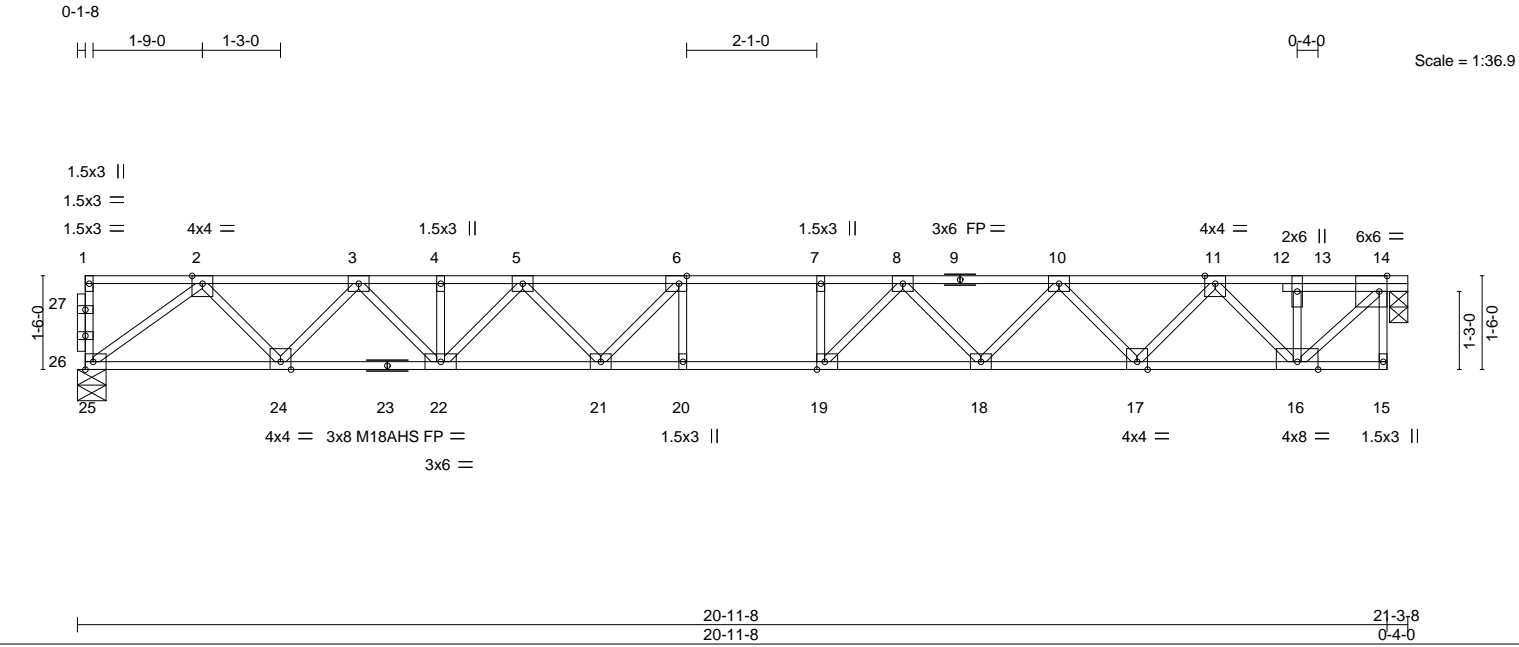
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

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

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane
J0325-1553	F04	Floor	2	1	I72726308

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:34:04 2025 Page 1
ID:tpZlv46Jpk9SvtxrZpWkKFzu5_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



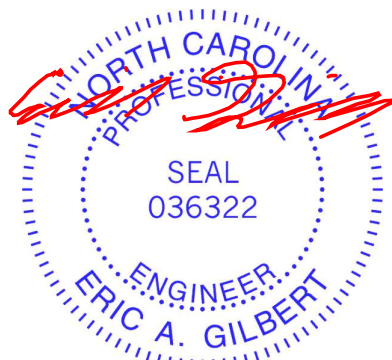
LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.43	Vert(LL) -0.27 20 >933 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.65	Vert(CT) -0.37 20 >681 360	M18AHS	186/179
BCLL 0.0	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.02 14 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 115 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 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, 25=0-5-8
Max Grav 14=1139(LC 1), 25=1139(LC 1)

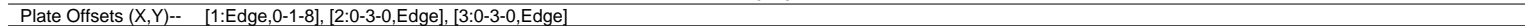
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2137/0, 3-4=-3385/0, 4-5=-3385/0, 5-6=-4066/0, 6-7=-4255/0, 7-8=-4255/0, 8-10=-3641/0, 10-11=-2616/0, 11-13=-1082/0, 13-14=-1082/0
BOT CHORD 24-25=0/1396, 22-24=0/2849, 21-22=0/3845, 20-21=0/4255, 19-20=0/4255, 18-19=0/4018, 17-18=0/3253, 16-17=0/1954
WEBS 14-16=0/1496, 2-25=-1753/0, 2-24=0/1102, 3-24=-1058/0, 3-22=0/776, 11-16=-1263/0, 11-17=0/985, 10-17=-946/0, 10-18=0/577, 8-18=-560/0, 8-19=-93/690, 7-19=-327/0, 5-22=-666/0, 5-21=0/487, 6-21=-590/116

- 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 7) CAUTION, Do not erect truss backwards.



April 15, 2025

Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:34:05 2025 Page 1
ID:tpZlv46Jpk9SvtxrZpWkKFzu5_4-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKwRCdoi7J4zJCf?



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane
J0325-1553	F05	Floor	2	1	172726310
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:34:05 2025 Page 1
ID:tpZlv46Jpk9SvtxrZpWkKFzu5_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

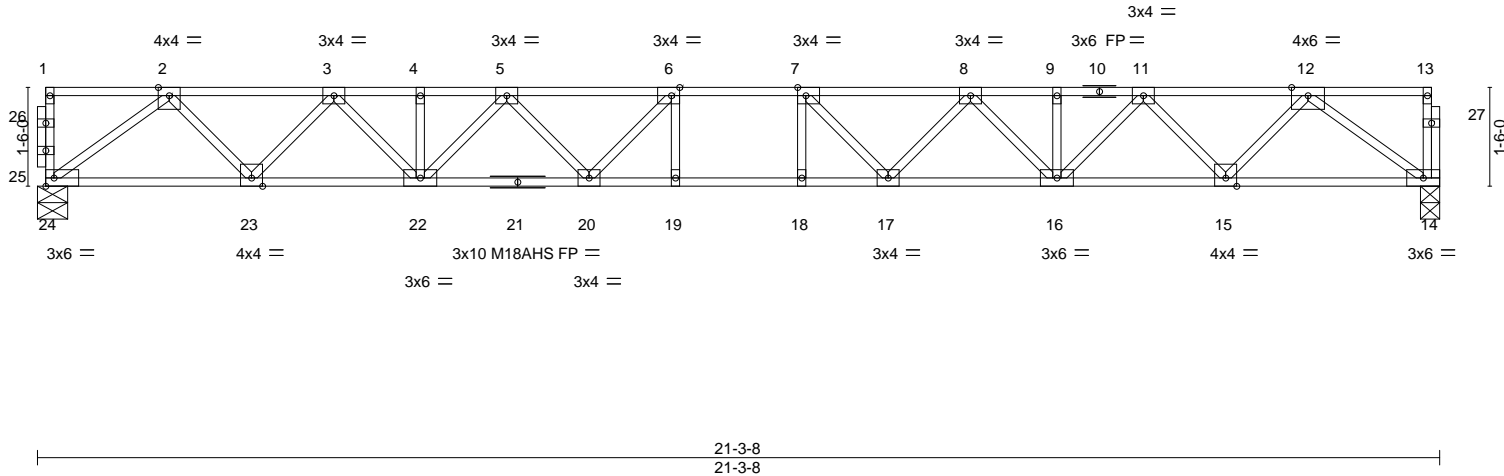
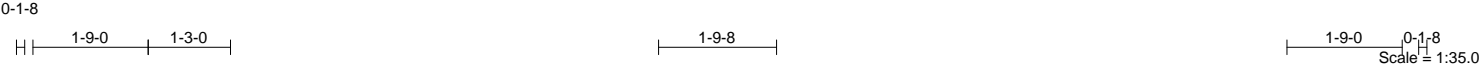


Plate Offsets (X,Y)--		[6:0-1-8,Edge], [7:0-1-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.34
TCDL 10.0	Lumber DOL	1.00	BC 0.61
BCLL 0.0	Rep Stress Incr	YES	WB 0.53
BCDL 5.0	Code	IRC2021/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.27 18-19 >937 480
			Vert(CT) -0.37 18-19 >680 360
			Horz(CT) 0.07 14 n/a n/a
			PLATES GRIP
			MT20 244/190
			M18AHS 186/179
			Weight: 115 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 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) 24=0-5-8, 14=0-3-8
Max Grav 24=1154(LC 1), 14=1148(LC 1)

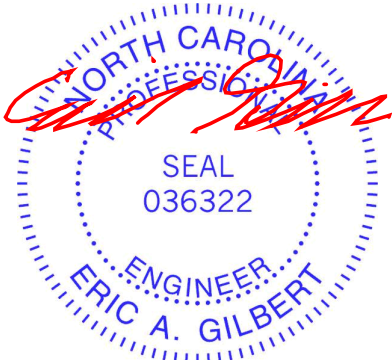
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2170/0, 3-4=-3447/0, 4-5=-3447/0, 5-6=-4154/0, 6-7=-4385/0, 7-8=-4165/0, 8-9=-3471/0, 9-11=-3471/0, 11-12=-2207/0

BOT CHORD 23-24=0/1416, 22-23=0/2896, 20-22=0/3916, 19-20=0/4385, 18-19=0/4385, 17-18=0/4385, 16-17=0/3935, 15-16=0/2927, 14-15=0/1458

WEBS 2-24=-1777/0, 2-23=0/1122, 3-23=-1079/0, 3-22=0/798, 12-14=-1805/0, 12-15=0/1113, 11-15=-1070/0, 11-16=0/788, 8-16=-672/0, 8-17=0/487, 7-17=-612/100, 5-22=-679/0, 5-20=0/494, 6-20=-622/89

- 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.



April 15,2025

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

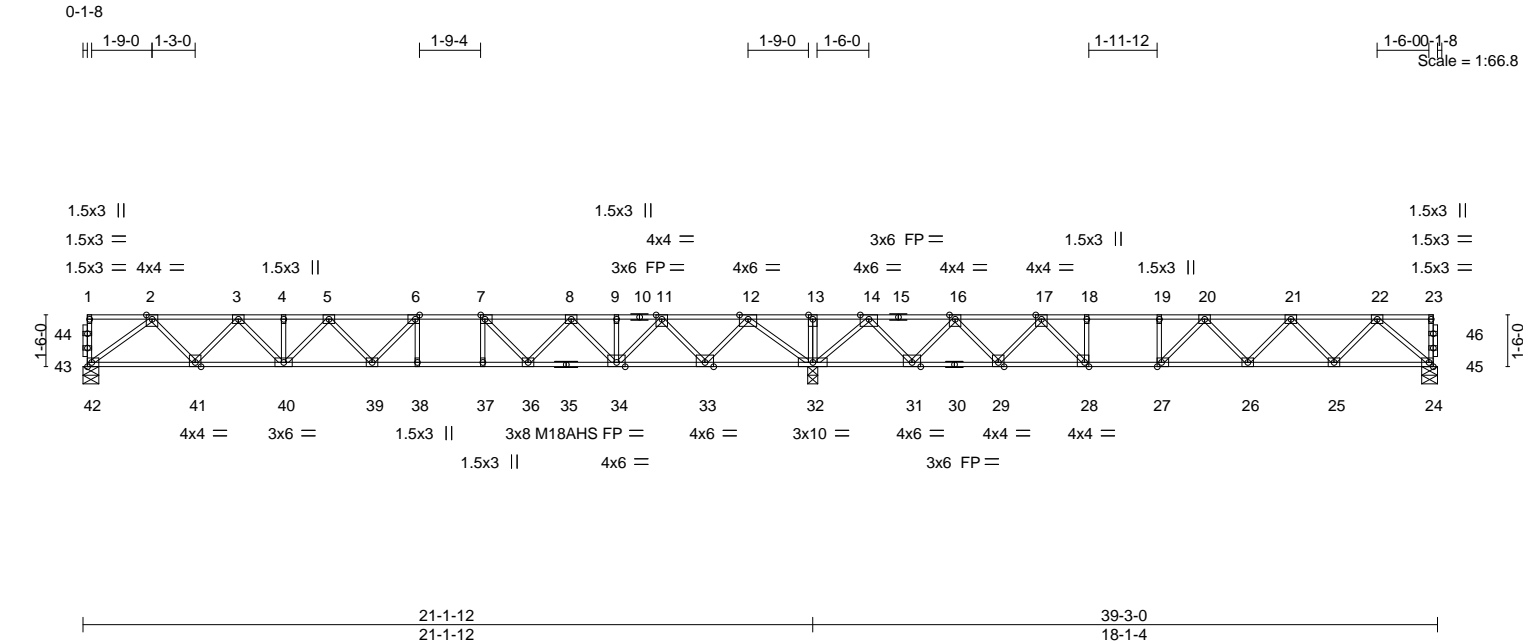
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane
J0325-1553	F06	Floor	6	1	172726311

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:34:06 2025 Page 1
ID:tpZlv46Jpk9SvtxrZpWkKFzu5_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



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 0.64	Vert(LL)	-0.23 38-39	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.72	Vert(CT)	-0.31 38-39	>799	360	M18AHS	186/179
BCLL 0.0	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.05 24	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-S					Weight: 207 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 24=0-5-8, 42=0-5-8, 32=0-3-8
Max Grav 24=861(LC 4), 42=1013(LC 3), 32=2557(LC 1)

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

TOP CHORD 2-3=-1859/0, 3-4=-2869/0, 4-5=-2869/0, 5-6=-3317/0, 6-7=-3321/0, 7-8=-2877/0, 8-9=-1930/232, 9-11=-1930/232, 11-12=-399/780, 12-13=0/2898, 13-14=0/2898, 14-16=-349/1300, 16-17=-1522/762, 17-18=-2372/184, 18-19=-2372/184, 19-20=-2372/184, 20-21=-2184/0, 21-22=-1421/0

BOT CHORD 41-42=0/1231, 40-41=0/2457, 39-40=0/3227, 38-39=0/3321, 37-38=0/3321, 36-37=0/3321, 34-36=-28/2502, 33-34=-491/1249, 32-33=-1223/0, 31-32=-1709/0, 29-31=-1000/1062, 28-29=-509/1989, 27-28=-184/2372, 26-27=0/2397, 25-26=0/1920, 24-25=0/903

WEBS 2-42=-1546/0, 12-32=-2079/0, 12-33=0/1367, 11-33=-1340/0, 11-34=0/1064, 2-41=0/933, 3-41=-888/0, 3-40=0/597, 5-40=-519/0, 6-39=-206/409, 8-34=-890/0, 8-36=0/696, 7-36=-928/0, 7-37=-5/365, 6-38=-337/33, 14-32=-1717/0, 14-31=0/1240, 16-31=-1194/0, 16-29=0/806, 17-29=-849/0, 17-28=0/985, 22-24=-1202/0, 22-25=0/771, 21-25=-742/0, 21-26=-34/393, 20-26=-317/125, 20-27=-508/23, 18-28=-495/0

- 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.



April 15, 2025

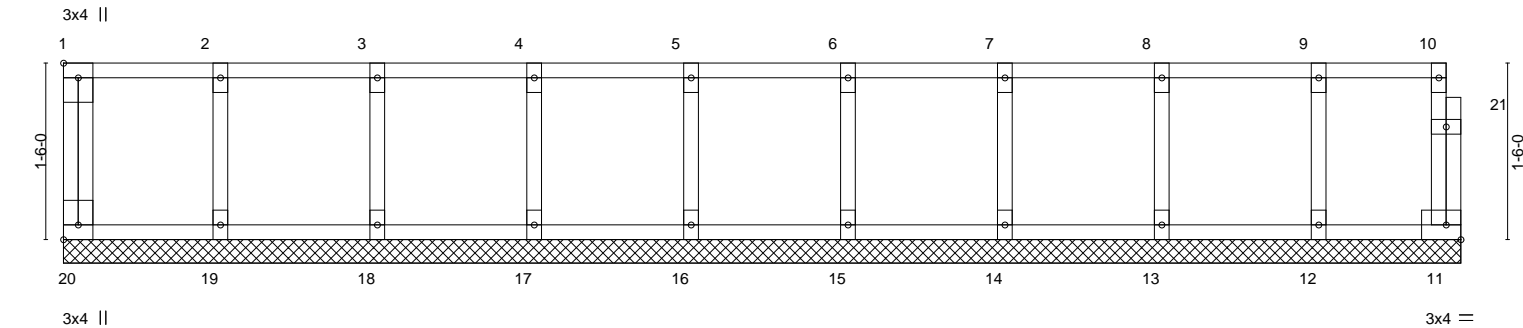
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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane
J0325-1553	FKW00	GABLE	1	1	I72726312
Job Reference (optional)					



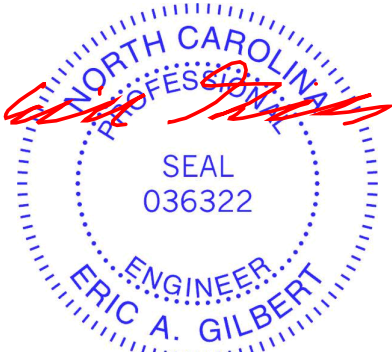
1-4-0		2-8-0		4-0-0		5-4-0		6-8-0		8-0-0		9-4-0		10-8-0		11-10-8	
1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-2-8	
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [20:Edge,0-1-8]																	
LOADING (psf)		SPACING-		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	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	11	n/a	n/a							
BCDL	5.0	Code IRC2021/TPI2014		Matrix-R										Weight: 57 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)		
WEBS	2x4 SP No.3(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3(flat)		

REACTIONS. All bearings 11-10-8.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

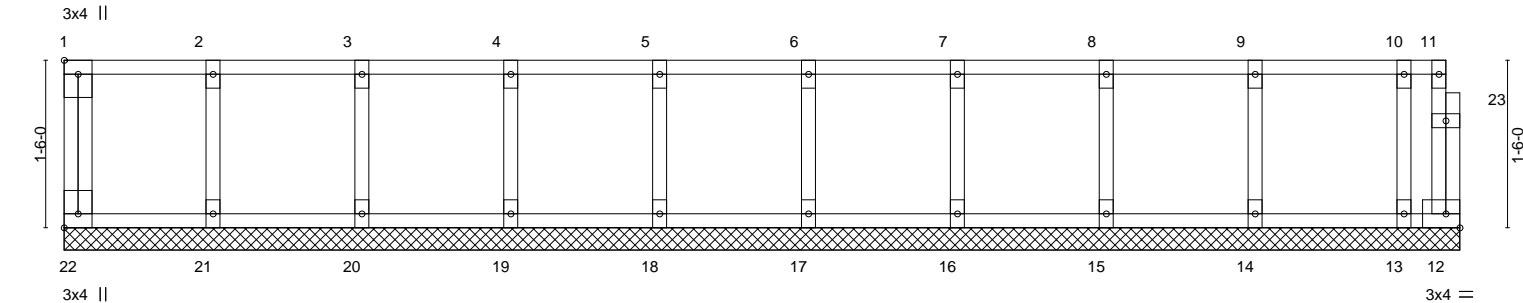
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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.



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Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane
J0325-1553	FKW01	GABLE	1	1	172726313
Job Reference (optional)					



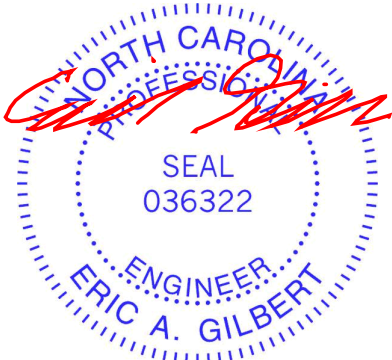
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1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		0-6-0	
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [22:Edge,0-1-8]																			
LOADING (psf)		SPACING- 2-0-0				CSI.		DEFL. in (loc) l/defl L/d						PLATES		GRIP			
TCLL	40.0	Plate Grip DOL 1.00				TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20		244/190				
TCDL	10.0	Lumber DOL 1.00				BC	0.02	Vert(CT)	n/a	-	n/a	999							
BCLL	0.0	Rep Stress Incr YES				WB	0.03	Horz(CT)	0.00	12	n/a	n/a							
BCDL	5.0	Code IRC2021/TPI2014				Matrix-R								Weight: 61 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 12-6-0.
 (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.
 - 7) CAUTION, Do not erect truss backwards.



April 15,2025

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane
J0325-1553	FKW05	GABLE	1	1	I72726315
Job Reference (optional)					

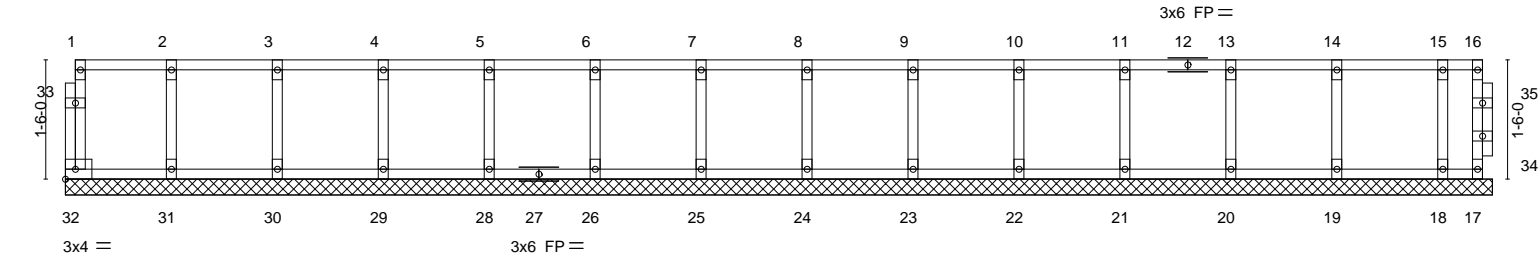
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:34:07 2025 Page 1
ID:tpZlv46Jpk9SvtxrZpWkKFzu5_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

0-1-8

0-1-8

Scale = 1:29.0



	1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	17-11-8
	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-8
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	17	n/a	n/a			
	BCDL	5.0	Code IRC2021/TPI2014		Matrix-R							Weight: 84 lb	FT = 20%F, 11%E	

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

REACTIONS. All bearings 17-11-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

NOTES-

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



April 15,2025

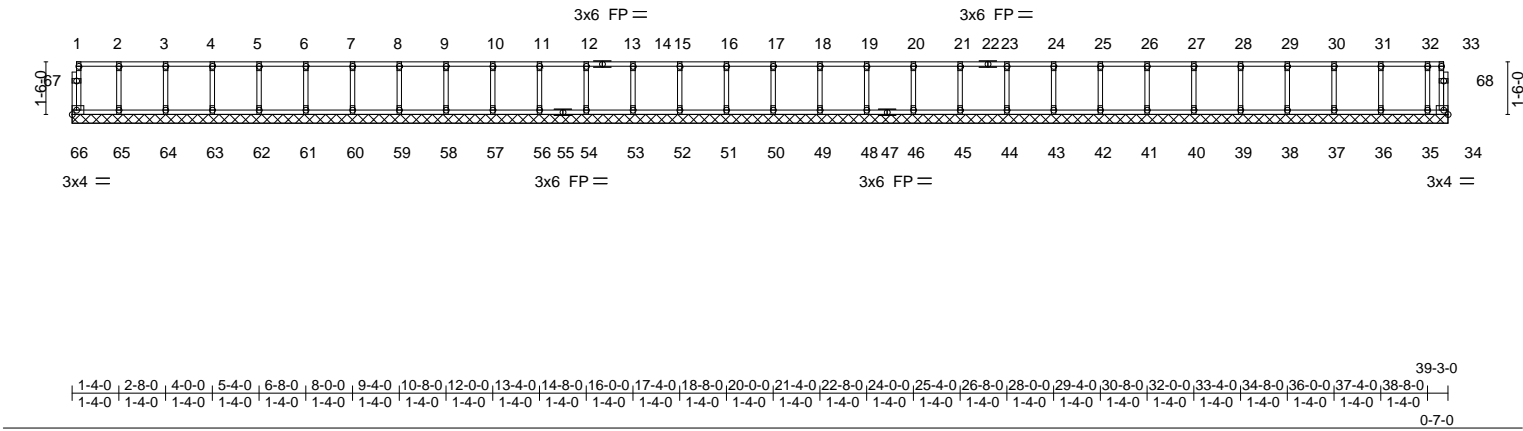
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

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

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane
J0325-1553	FKW06	GABLE	1	1	172726316
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:34:08 2025 Page 1
ID:tpZlv46Jpk9SvtxrZpWkKFzu5_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8 0-1-8
Scale = 1:65.7



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	34	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-R						Weight: 177 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 39-3-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 66, 34, 65, 64, 63, 62, 61, 60, 59, 58, 57, 56, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35

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

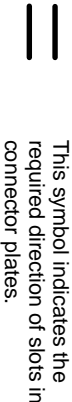
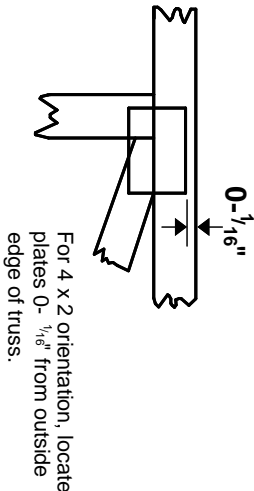
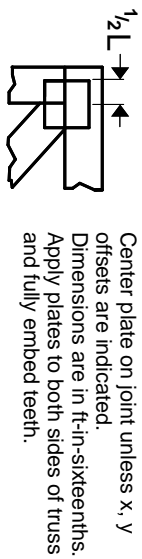
NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) 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.



April 15, 2025

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

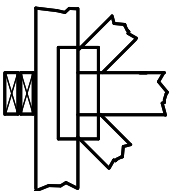
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

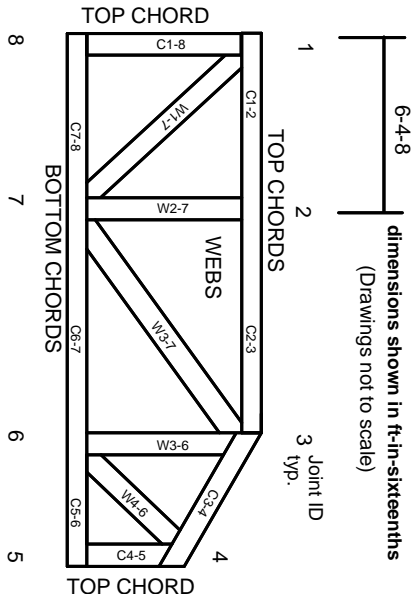


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

Product Code Approvals

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

Design General Notes

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

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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