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

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

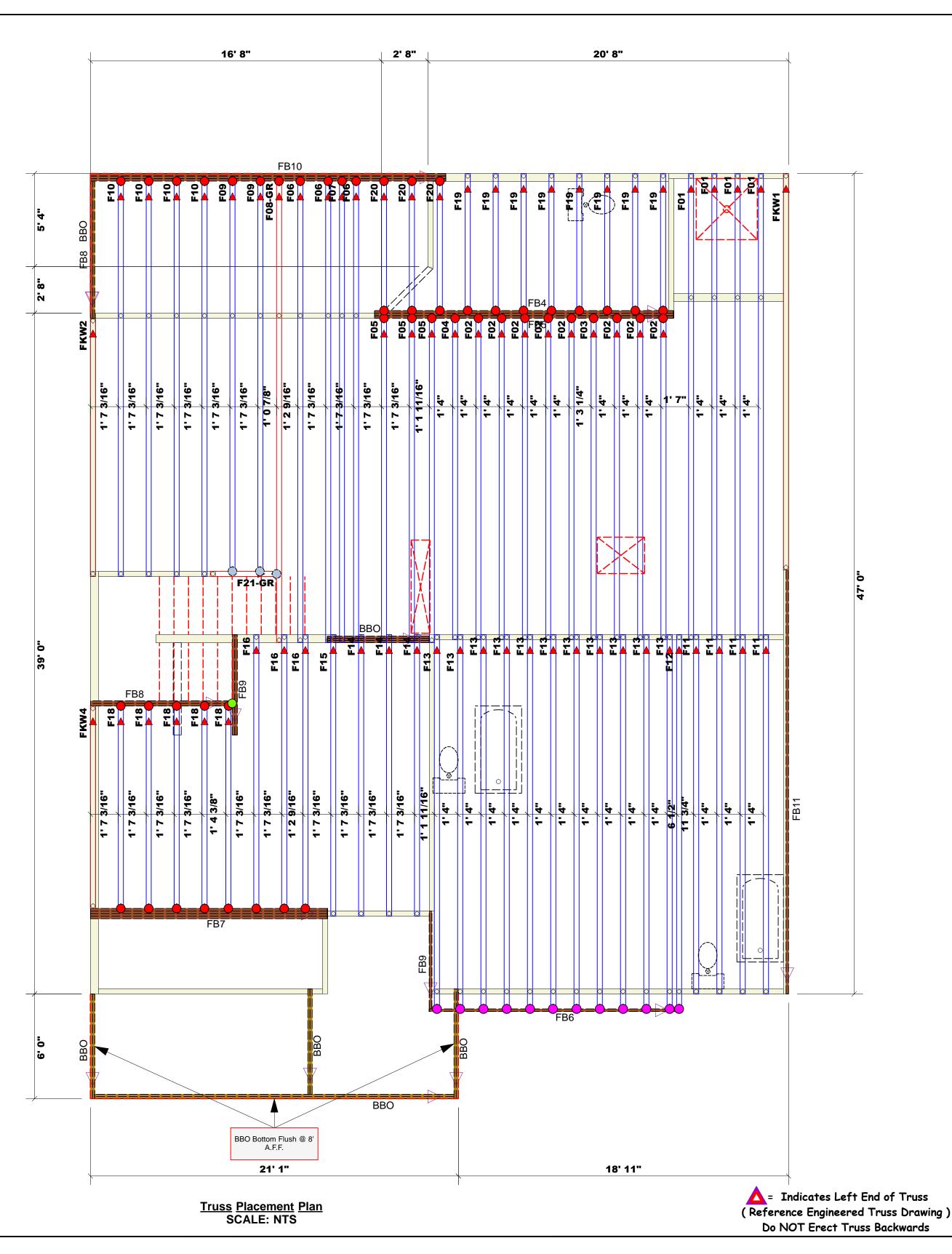
All Walls Shown Are Considered Load Bearing

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

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

Nail Info	ormation	Connector Information						
Truss	Header	Supported Member	Qty	Manuf	Product	Sym		
16d/3-1/2"	16d/3-1/2"	NA	51	USP	JUS414			
16d/3-1/2"	16d/3-1/2"	NA	12	USP	IHFL3514			
16d/3-1/2"	16d/3-1/2"	NA	1	USP	HD414			
10d/3"	10d/3"	Varies	3	USP	MSH422			

			Products		
Fab Type	Net Qty	Plies	Product	Length	PlotID
FF	1	1	1-3/4"x 14" LVL Kerto-S	25' 0"	FB11
FF	1	1	1-3/4"x 14" LVL Kerto-S	18' 0"	FB4
FF	2	2	1-3/4"x 14" LVL Kerto-S	18' 0"	FB5
FF	1	1	1-3/4"x 14" LVL Kerto-S	15' 0"	FB6
FF	4	4	1-3/4"x 14" LVL Kerto-S	14' 0"	FB7
FF	2	2	1-3/4"x 14" LVL Kerto-S	9' 0"	FB8
FF	1	1	1-3/4"x 14" LVL Kerto-S	8' 0"	FB8
FF	1	1	1-3/4"x 14" LVL Kerto-S	6' 0"	FB9
FF	2	2	1-3/4"x 14" LVL Kerto-S	6' 0"	FB9
FF	3	3	1-3/4"x 23-7/8" LVL Kerto-S	21' 0"	FB10



соттесн **ROOF & FLOOR**

TRUSSES & BEAMS

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

Johnnie Baggett

Johnnie Baggett

LOAD CHART FOR JACK STUDS

Fuquay-Varina / Wake Johnnie Baggett Johnnie Baggett 5/2/52 SALES REP. DRAWN BY CITY / CO. DATE REV.

Craftsman New Home Inc B0325-1177 DATE JOB NAME BUILDER

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



Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0525-2422

Lot 192 Ballard Road

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: I73198329 thru I73198351

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

North Carolina COA: C-0844



May 5,2025

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
					173198329
J0525-2422	F01	Floor	4	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:50 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 6-0-0 oc purlins,

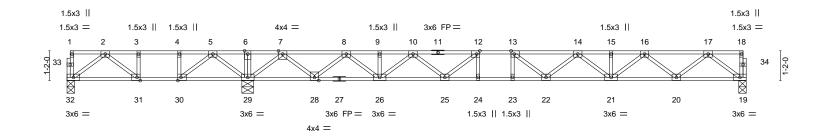
Rigid ceiling directly applied or 6-0-0 oc bracing.

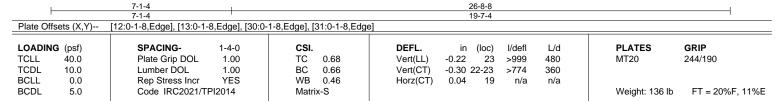
except end verticals.

0-1-8

1-2-12

0-1-8 Scale = 1:45.3





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SP No.1(flat) TOP CHORD 2x4 SP No.1(flat)

BOT CHORD WFBS 2x4 SP No.3(flat)

32=0-3-8, 29=0-5-8, 19=0-3-8 (size)

Max Uplift 32=-159(LC 4)

Max Grav 32=180(LC 3), 29=1290(LC 1), 19=630(LC 7)

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

2-3=-180/642, 3-4=-180/642, 4-5=-180/642, 5-6=0/1606, 6-7=0/1606, 8-9=-1510/0, TOP CHORD

9-10=-1510/0, 10-12=-2269/0, 12-13=-2588/0, 13-14=-2570/0, 14-15=-2200/0,

15-16=-2200/0. 16-17=-1332/0

BOT CHORD 30-31=-642/180, 29-30=-1149/0, 28-29=-616/0, 26-28=0/957, 25-26=0/1984,

24-25=0/2588, 23-24=0/2588, 22-23=0/2588, 21-22=0/2497, 20-21=0/1849, 19-20=0/791 2-32=-224/291, 2-31=-522/0, 5-29=-717/0, 5-30=0/793, 4-30=-361/0, 17-19=-991/0, 17-20=0/704, 16-20=-673/0, 16-21=0/448, 14-21=-380/0, 7-29=-1243/0, 7-28=0/972,

8-28=-936/0, 8-26=0/719, 10-26=-615/0, 10-25=0/414, 12-25=-517/0

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 32.
- 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.





Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
J0525-2422	F02	Floor	8	1	173198330
					Job Reference (optional)

1-3-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:51 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

2-5-0

Scale = 1:30.7

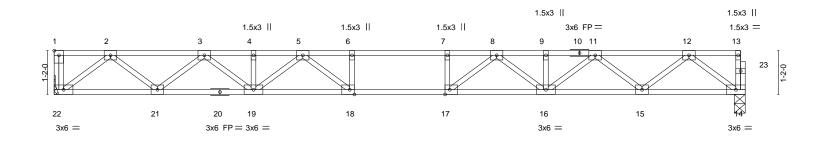


Plate Off	sets (X,Y)	[1:Edge,0-1-8], [17:0-1-8,Edge], [18-5-0		
LOADING	G (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.44	Vert(LL) -0.21 17-18 >999 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.61	Vert(CT) -0.29 17-18 >744 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.05 14 n/a n/a	
BCDL	5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 93 lb FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

18-5-0

LUMBER-TOP CHORD

BOT CHORD

2x4 SP No 1(flat) BOT CHORD 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 22=Mechanical, 14=0-3-8

Max Grav 22=666(LC 1), 14=662(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1411/0, 3-4=-2366/0, 4-5=-2366/0, 5-6=-2865/0, 6-7=-2865/0, 7-8=-2865/0, TOP CHORD

8-9=-2366/0, 9-11=-2366/0, 11-12=-1410/0 21-22=0/833, 19-21=0/1965, 18-19=0/2660, 17-18=0/2865, 16-17=0/2660, 15-16=0/1965.

14-15=0/833 WFBS

2-22=-1046/0, 2-21=0/751, 3-21=-722/0, 3-19=0/512, 5-19=-374/0, 5-18=-22/499, 12-14=-1043/0, 12-15=0/752, 11-15=-722/0, 11-16=0/512, 8-16=-374/0, 8-17=-22/499

NOTES-

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



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



Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
					I73198331
J0525-2422	F03	FLOOR	1	1	
					Job Reference (optional)

1-3-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:51 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

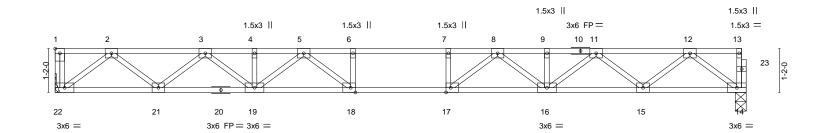
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

2-5-0

Scale = 1:30.7



			10-3-0	
Plate Offsets (X,Y)	[1:Edge,0-1-8], [17:0-1-8,Edge], [18:0-1	-8,Edge]		
LOADING (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.44	Vert(LL) -0.21 17-18 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.61	Vert(CT) -0.29 17-18 >744 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.05 14 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 93 lb FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

LUMBER-2x4 SP No 1(flat)

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

REACTIONS. (size) 22=Mechanical, 14=0-3-8

Max Grav 22=666(LC 1), 14=662(LC 1)

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

2-3=-1411/0, 3-4=-2366/0, 4-5=-2366/0, 5-6=-2865/0, 6-7=-2865/0, 7-8=-2865/0, TOP CHORD

8-9=-2366/0, 9-11=-2366/0, 11-12=-1410/0

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

14-15=0/833

WFBS 2-22=-1046/0, 2-21=0/751, 3-21=-722/0, 3-19=0/512, 5-19=-374/0, 5-18=-22/499,

12-14=-1043/0, 12-15=0/752, 11-15=-722/0, 11-16=0/512, 8-16=-374/0, 8-17=-22/499

NOTES-

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





Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
10525 2422	E04	FLOOD			173198332
J0525-2422	F04	FLOOR	1	1	Job Reference (optional)

1-3-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:51 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

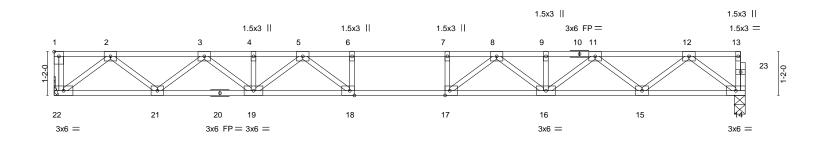
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

2-5-0

Scale = 1:30.7



'			18-5-0	· · · · · · · · · · · · · · · · · · ·
Plate Offsets (X,Y)	[1:Edge,0-1-8], [17:0-1-8,Edge], [18:0-1	I-8,Edge]		
LOADING (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.44	Vert(LL) -0.21 17-18 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.61	Vert(CT) -0.29 17-18 >744 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.05 14 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 93 lb FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

18-5-0

LUMBER-TOP CHORD

2x4 SP No 1(flat) 2x4 SP No.1(flat)

BOT CHORD

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 22=Mechanical, 14=0-3-8

Max Grav 22=666(LC 1), 14=662(LC 1)

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

2-3=-1411/0, 3-4=-2366/0, 4-5=-2366/0, 5-6=-2865/0, 6-7=-2865/0, 7-8=-2865/0, TOP CHORD

8-9=-2366/0, 9-11=-2366/0, 11-12=-1410/0

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

14-15=0/833

WFBS 2-22=-1046/0, 2-21=0/751, 3-21=-722/0, 3-19=0/512, 5-19=-374/0, 5-18=-22/499,

12-14=-1043/0, 12-15=0/752, 11-15=-722/0, 11-16=0/512, 8-16=-374/0, 8-17=-22/499

NOTES-

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





Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
					173198333
J0525-2422	F05	FLOOR	3	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:52 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

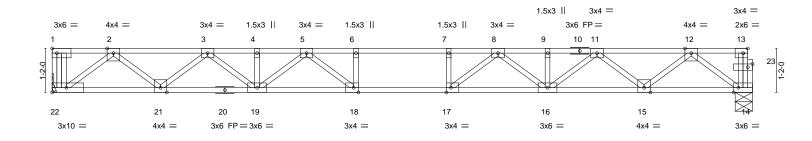
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

1-3-0 2-4-0

Scale = 1:30.6



'			18-7-0	
Plate Offsets (X,Y)	[13:0-1-8,Edge], [14:0-1-8,Edge], [17:0	-1-8,Edge], [18:0-1-8,Edg	je], [23:0-1-8,0-1-0]	
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.56	Vert(LL) -0.26 17-18 >831 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.74	Vert(CT) -0.36 17-18 >604 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.06 14 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 96 lb FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

18-7-0

LUMBER-TOP CHORD 2x4 SP No 1(flat)

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

REACTIONS. (size) 14=0-5-8, 22=Mechanical

Max Grav 14=796(LC 1), 22=806(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD $2\text{-}3\text{=-}1778/0,\ 3\text{-}4\text{=-}2915/0,\ 4\text{-}5\text{=-}2915/0,\ 5\text{-}6\text{=-}3501/0,\ 6\text{-}7\text{=-}3501/0,\ 7\text{-}8\text{=-}3501/0,\ 7\text{-$

8-9=-2915/0, 9-11=-2915/0, 11-12=-1778/0

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

14-15=0/1089 WFBS

 $12\text{-}14\text{=-}1321/0,\ 12\text{-}15\text{=-}0/897,\ 11\text{-}15\text{=-}861/0,\ 11\text{-}16\text{=-}0/608,\ 8\text{-}16\text{=-}444/0,\ 8\text{-}17\text{=-}38/591,}$ 7-17=-276/0, 2-22=-1328/0, 2-21=0/896, 3-21=-859/0, 3-19=0/608, 5-19=-444/0,

5-18=-38/591, 6-18=-276/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



May 5,2025

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

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Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
			_		173198334
J0525-2422	F06	Floor	3	1	
					Job Reference (optional)

Comtech, Inc.

1-3-0

Fayetteville, NC - 28314,

2-1-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:52 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

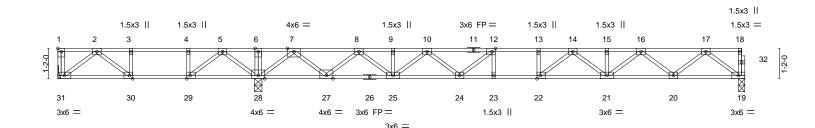
Structural wood sheathing directly applied or 6-0-0 oc purlins,

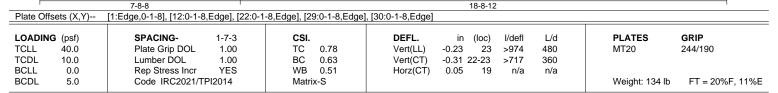
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

1-7-4

Scale = 1:44.3





BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

REACTIONS. 31=Mechanical, 28=0-3-8, 19=0-2-14 (size)

Max Uplift 31=-89(LC 4)

Max Grav 31=274(LC 3), 28=1416(LC 1), 19=744(LC 7)

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

TOP CHORD 2-3=-367/488, 3-4=-367/488, 4-5=-367/488, 5-6=0/1438, 6-7=0/1438, 7-8=-682/0,

8-9=-2034/0, 9-10=-2034/0, 10-12=-2789/0, 12-13=-3035/0, 13-14=-3035/0,

14-15=-2587/0, 15-16=-2587/0, 16-17=-1565/0

BOT CHORD 30-31=-149/284, 29-30=-488/367, 28-29=-969/13, 27-28=-329/0, 25-27=0/1454,

 $24 - 25 = 0/2533,\ 23 - 24 = 0/3035,\ 22 - 23 = 0/3035,\ 21 - 22 = 0/2883,\ 20 - 21 = 0/2171,\ 19 - 20 = 0/933$ 2-31=-357/187, 2-30=-433/106, 5-28=-748/0, 5-29=0/835, 4-29=-393/0, 7-28=-1391/0, $7-27 = 0/1071,\ 8-27 = -1026/0,\ 8-25 = 0/761,\ 10-25 = -653/0,\ 10-24 = 0/422,\ 12-24 = -504/0,$

17-19=-1168/0, 17-20=0/824, 16-20=-788/0, 16-21=0/531, 14-21=-378/0,

14-22=-115/428

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 31.
- 7) 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.
- 8) CAUTION, Do not erect truss backwards.



May 5,2025

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Job Truss Truss Type Qty Ply Lot 192 Ballard Road 173198335 J0525-2422 **FLOOR** F07 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

2-1-0

1-3-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:53 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

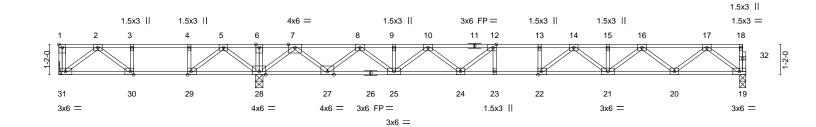
Structural wood sheathing directly applied or 6-0-0 oc purlins,

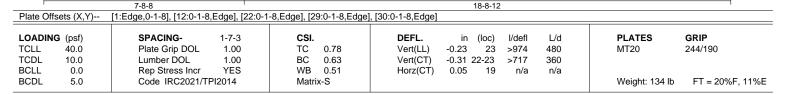
Rigid ceiling directly applied or 6-0-0 oc bracing

except end verticals.

1-7-4

Scale = 1:44.3





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WFBS 2x4 SP No.3(flat)

REACTIONS. 31=Mechanical, 28=0-3-8, 19=0-2-14 (size)

Max Uplift 31=-89(LC 4)

Max Grav 31=274(LC 3), 28=1416(LC 1), 19=744(LC 7)

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

TOP CHORD 2-3=-367/488, 3-4=-367/488, 4-5=-367/488, 5-6=0/1438, 6-7=0/1438, 7-8=-682/0,

8-9=-2034/0, 9-10=-2034/0, 10-12=-2789/0, 12-13=-3035/0, 13-14=-3035/0,

14-15=-2587/0, 15-16=-2587/0, 16-17=-1565/0

BOT CHORD 30-31=-149/284, 29-30=-488/367, 28-29=-969/13, 27-28=-329/0, 25-27=0/1454,

 $24 - 25 = 0/2533,\ 23 - 24 = 0/3035,\ 22 - 23 = 0/3035,\ 21 - 22 = 0/2883,\ 20 - 21 = 0/2171,\ 19 - 20 = 0/933$ 2-31=-357/187, 2-30=-433/106, 5-28=-748/0, 5-29=0/835, 4-29=-393/0, 7-28=-1391/0, $7-27 = 0/1071,\ 8-27 = -1026/0,\ 8-25 = 0/761,\ 10-25 = -653/0,\ 10-24 = 0/422,\ 12-24 = -504/0,$

17-19=-1168/0, 17-20=0/824, 16-20=-788/0, 16-21=0/531, 14-21=-378/0,

14-22=-115/428

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 31.
- 7) 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.
- 8) CAUTION, Do not erect truss backwards.



May 5,2025

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Job Truss Truss Type Qty Ply Lot 192 Ballard Road 173198336 J0525-2422 F08-GR Floor Girder Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

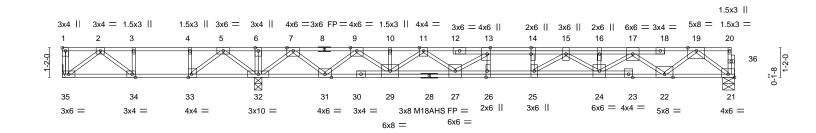
8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:54 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 1-3-0 2-1-0

1-7-4

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

Scale = 1:45.3



	7-8-8		18-8-12		<u>'</u>
Plate Offsets (X,Y)	[1:Edge,0-1-8], [13:0-3-0,Edge], [14:0-3	3-0,0-0-0], [21:Edge,0-1-8]], [26:0-3-0,Edge], [33:0-1-8,Edge], [34:0-1-8,Edge]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.74	Vert(LL) -0.26 25 >868 480	MT20	244/190
TCDL 10.0 BCLL 0.0	Lumber DOL 1.00 Rep Stress Incr NO	BC 0.70 WB 0.91	Vert(CT) -0.35 25 >629 360 Horz(CT) 0.05 21 n/a n/a	M18AHS	186/179
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 160 lb	FT = 20%F, 11%E

BOT CHORD

26-5-4

except end verticals.

LUMBER-**BRACING-**TOP CHORD 2x4 SP 2400F 2 0F(flat) TOP CHORD

2x4 SP No.1(flat) *Except* BOT CHORD

21-28: 2x4 SP 2400F 2.0E(flat)

WFBS 2x4 SP No.3(flat)

REACTIONS. 35=Mechanical, 32=0-3-8, 21=0-5-8

7-8-8

Max Uplift 35=-110(LC 4)

Max Grav 35=307(LC 3), 32=1910(LC 1), 21=1454(LC 7)

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

TOP CHORD 2-3=-328/610 3-4=-328/610 4-5=-328/610 5-6=0/1802 6-7=0/1802 7-9=-1191/0

9-10=-3385/0, 10-11=-3385/0, 11-13=-4888/0, 13-14=-5709/0, 14-15=-5709/0,

15-16=-5554/0, 16-17=-5554/0, 17-19=-3287/0

BOT CHORD 34-35=-177/310, 33-34=-610/328, 32-33=-1216/0, 31-32=-297/23, 29-31=0/2365,

27-29=0/4182, 26-27=0/5709, 25-26=0/5709, 24-25=0/5794, 22-24=0/4938, 21-22=0/1818 2-35=-389/223, 2-34=-553/23, 3-34=-39/267, 5-32=-916/0, 5-33=0/1055, 4-33=-517/0,

19-21=-2277/0, 19-22=0/1907, 17-22=-2103/0, 17-24=0/751, 7-32=-1953/0, 7-31=0/1543,

9-31=-1550/0, 9-29=0/1295, 11-29=-1016/0, 11-27=0/931, 13-27=-1220/0,

15-24=-293/172, 15-25=-552/148, 13-26=0/316

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 35.
- 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.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 742 lb down at 22-6-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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: 21-35=-10, 1-20=-100

Concentrated Loads (lb) Vert: 17=-662(B)



May 5,2025



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Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
			_		I73198337
J0525-2422	F09	Floor	2	1	
					Job Reference (optional)

2-1-0

1-3-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:54 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

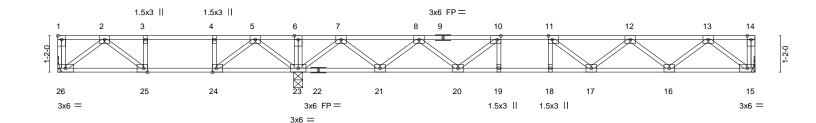
Structural wood sheathing directly applied or 6-0-0 oc purlins,

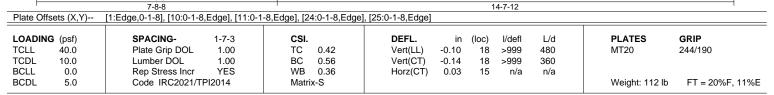
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

1-6-4

Scale = 1:36.9





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 26=Mechanical, 23=0-3-8, 15=Mechanical Max Grav 26=298(LC 3), 23=1120(LC 1), 15=597(LC 7)

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

TOP CHORD 2-3=-454/159, 3-4=-454/159, 4-5=-454/159, 5-6=0/781, 6-7=0/781, 7-8=-828/0,

8-10=-1632/0, 10-11=-1930/0, 11-12=-1798/0, 12-13=-1192/0 25-26=-25/317, 24-25=-159/454, 23-24=-427/156, 21-23=-22/266, 20-21=0/1356,

BOT CHORD 19-20=0/1930, 18-19=0/1930, 17-18=0/1930, 16-17=0/1630, 15-16=0/729

2-26=-398/31, 5-23=-594/0, 5-24=0/566, 4-24=-278/0, 13-15=-915/0, 13-16=0/602,

 $12 - 16 = -570/0, \ 12 - 17 = 0/256, \ 11 - 17 = -286/45, \ 7 - 23 = -1054/0, \ 7 - 21 = 0/754, \ 8 - 21 = -712/0, \ 7 - 21 = 0/754, \$

8-20=0/389, 10-20=-477/0

NOTES-

WFBS

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



May 5,2025



Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
					173198338
J0525-2422	F10	Floor	4	1	
					Job Reference (optional)

Comtech, Inc.

1-3-0

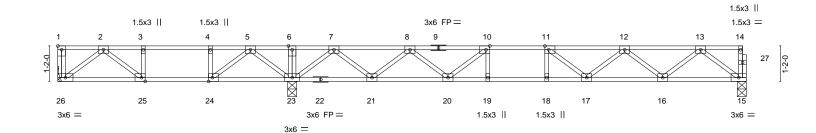
Fayetteville, NC - 28314,

2-1-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:55 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1-9-12

Scale = 1:37.9



	7-8-8	'	14-11-4	
Plate Offsets (X,Y)	[1:Edge,0-1-8], [10:0-1-8,Edge], [11:0-1	I-8,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge]	
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.43	Vert(LL) -0.11 17-18 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.62	Vert(CT) -0.15 17-18 >999 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.37	Horz(CT) 0.03 15 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 113 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

BOT CHORD

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

22-7-12

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 26=Mechanical, 23=0-3-8, 15=0-3-8

Max Grav 26=298(LC 3), 23=1135(LC 1), 15=605(LC 7)

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

2-3=-453/167, 3-4=-453/167, 4-5=-453/167, 5-6=0/793, 6-7=0/793, 7-8=-842/0, TOP CHORD

8-10=-1679/0, 10-11=-2002/0, 11-12=-1858/0, 12-13=-1222/0

25-26=-28/317, 24-25=-167/453, 23-24=-441/154, 21-23=-20/264, 20-21=0/1384, BOT CHORD 19-20=0/2002, 18-19=0/2002, 17-18=0/2002, 16-17=0/1675, 15-16=0/744

2-26=-397/35, 5-23=-598/0, 5-24=0/572, 4-24=-281/0, 7-23=-1076/0, 7-21=0/772,

8-21=-730/0, 8-20=0/413, 10-20=-511/0, 13-15=-931/0, 13-16=0/622, 12-16=-590/0,

12-17=0/273, 11-17=-306/31

NOTES-

WFBS

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



May 5,2025

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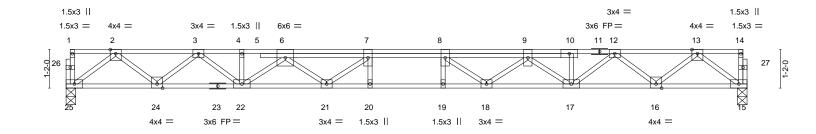


Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
					173198339
J0525-2422	F11	FLOOR	4	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:55 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8

0-1-8 Scale = 1:34.8



	20-7-0							
LOADING (psf) TCLL 40.0	SPACING- 1-4-0 Plate Grip DOL 1.00	CSI. TC 0.13	DEFL. in (loc) I/defl L/d Vert(LL) -0.27 19-20 >891 480	PLATES GRIP MT20 244/190				
TCLL 40.0 TCDL 10.0	Lumber DOL 1.00	BC 0.72	Vert(CT) -0.27 19-20 >891 480 Vert(CT) -0.38 19-20 >647 360	W1120 244/190				
BCLL 0.0	Rep Stress Incr YES	WB 0.42	Horz(CT) 0.07 15 n/a n/a					
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 116 lb FT = 20%F, 11%E				

20-7-0

LUMBER-**BRACING-**

TOP CHORD 2x4 SP 2400F 2.0E(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

2x4 SP No.1(flat) BOT CHORD except end verticals.

2x4 SP No.3(flat) **BOT CHORD** WFBS Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 25=0-3-8, 15=0-3-8

Max Grav 25=741(LC 1), 15=741(LC 1)

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

2-3=-1610/0, 3-4=-2746/0, 4-6=-2749/0, 6-7=-3566/0, 7-8=-3809/0, 8-9=-3575/0, TOP CHORD 9-10=-2763/0, 10-12=-2759/0, 12-13=-1609/0

BOT CHORD 24-25=0/936, 22-24=0/2261, 21-22=0/3311, 20-21=0/3809, 19-20=0/3809, 18-19=0/3809, 17-18=0/3331, 16-17=0/2259, 15-16=0/937

WFBS 2-25=-1173/0, 2-24=0/877, 3-24=-847/0, 3-22=0/619, 13-15=-1174/0, 13-16=0/875,

 $12\text{-}16\text{=-}846/0,\ 12\text{-}17\text{=-}0/638,\ 6\text{-}22\text{=-}705/0,\ 6\text{-}21\text{=-}0/460,\ 7\text{-}21\text{=-}488/0,\ 9\text{-}17\text{=-}714/0,}$

9-18=0/454, 8-18=-483/9

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 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.





Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
					173198340
J0525-2422	F12	Floor	1	1	
					Job Reference (optional)

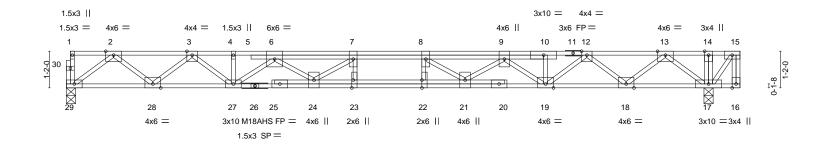
8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:56 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-1-8



		20)-5-4	' 1-0-0 '
Plate Offsets (X,Y)	[22:0-3-0,0-0-0], [23:0-3-0,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.30	Vert(LL) -0.32 22-23 >772 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.73	Vert(CT) -0.43 22-23 >565 360	M18AHS 186/179
BCLL 0.0	Rep Stress Incr NO	WB 0.63	Horz(CT) 0.07 17 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 134 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

20-5-4

LUMBER-

TOP CHORD 2x4 SP 2400F 2 0F(flat)

2x4 SP 2400F 2.0E(flat) *Except* **BOT CHORD**

20-25: 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 29=0-3-8, 17=0-3-8 Max Grav 29=1107(LC 3), 17=1664(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2409/0, 3-4=-4065/0, 4-6=-4071/0, 6-7=-5534/0, 7-8=-6050/0, 8-9=-5526/0, TOP CHORD

9-10=-4054/0, 10-12=-4047/0, 12-13=-2346/0

28-29=0/1400, 27-28=0/3364, 24-27=0/5024, 23-24=0/6050, 22-23=0/6050, 21-22=0/6050,

19-21=0/5025, 18-19=0/3313, 17-18=0/1334 **WEBS** 14-17=-376/0, 2-29=-1754/0, 2-28=0/1312, 3-28=-1244/0, 3-27=0/895, 13-17=-1727/0,

13-18=0/1333, 12-18=-1276/0, 12-19=0/950, 9-19=-1222/0, 9-21=0/743, 8-21=-920/0,

 $6\hbox{-}27\hbox{=-}1196/0,\ 6\hbox{-}24\hbox{=-}0/729,\ 7\hbox{-}24\hbox{=-}882/0,\ 8\hbox{-}22\hbox{=-}88/266,\ 15\hbox{-}17\hbox{=-}298/0}$

NOTES-

BOT CHORD

- 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) The Fabrication Tolerance at joint 26 = 11%
- 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) 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: 16-29=-10, 1-14=-100, 14-15=-600



May 5,2025

21-5-4

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



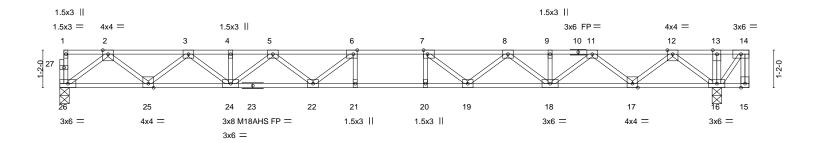
Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
	F40				I73198341
J0525-2422	F13	FLOOR	11	1	
			1		Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:56 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





0-7-8 Scale = 1:35.8



Dista Offi	nata (V V)	[0:0.4.0.54=1.17:0.4.0.54=1		20-5-4	1-0-0
Plate Oils	sets (X,Y)	[6:0-1-8,Edge], [7:0-1-8,Edge]			
LOADING	G (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.48	Vert(LL) -0.33 20-21 >745 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.93	Vert(CT) -0.45 20-21 >547 360	M18AHS 186/179
BCLL	0.0	Rep Stress Incr NO	WB 0.43	Horz(CT) 0.07 16 n/a n/a	
BCDL	5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 111 lb FT = 20%F, 11%E

LUMBER-BRACING-

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

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: 6-0-0 oc bracing: 16-17.

REACTIONS. (size) 26=0-3-8, 16=0-3-8

Max Grav 26=736(LC 3), 16=1124(LC 1)

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

2-3=-1597/0, 3-4=-2728/0, 4-5=-2728/0, 5-6=-3356/0, 6-7=-3559/0, 7-8=-3336/0, 8-9=-2686/0, 9-11=-2686/0, 11-12=-1529/0, 12-13=0/272, 13-14=0/271

BOT CHORD 25-26=0/930, 24-25=0/2241, 22-24=0/3144, 21-22=0/3559, 20-21=0/3559, 19-20=0/3559,

18-19=0/3111, 17-18=0/2186, 16-17=-15/855

WEBS 2-26=-1165/0, 2-25=0/868, 3-25=-839/0, 3-24=0/621, 12-16=-1169/0, 12-17=0/894, 11-17=-872/0, 11-18=0/655, 5-24=-531/0, 5-22=0/377, 6-22=-481/92, 8-18=-556/0,

8-19=0/412, 7-19=-537/36, 14-16=-417/0

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.

LOAD CASE(S) Standard

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

Vert: 15-26=-7, 1-14=-67 Concentrated Loads (lb) Vert: 14=-300



May 5,2025

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

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



Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
					173198342
J0525-2422	F14	Floor	3	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:57 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

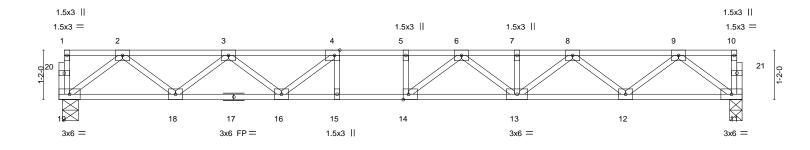
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-1-8





0-1-0			16-0-8	
Plate Offsets (X,Y)				
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.33	Vert(LL) -0.16 13-14 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.62	Vert(CT) -0.23 13-14 >844 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.04 11 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 82 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

16-1-8

LUMBER-

0-1-0

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat)

BOT CHORD

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 19=0-4-8, 11=0-3-8

Max Grav 19=693(LC 1), 11=693(LC 1)

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

TOP CHORD 2-3=-1443/0, 3-4=-2295/0, 4-5=-2621/0, 5-6=-2621/0, 6-7=-2340/0, 7-8=-2340/0,

8-9=-1438/0

BOT CHORD 18-19=0/864, 16-18=0/1991, 15-16=0/2621, 14-15=0/2621, 13-14=0/2569, 12-13=0/1986,

11-12=0/866

2-19=-1082/0, 2-18=0/753, 3-18=-714/0, 3-16=0/431, 4-16=-524/0, 9-11=-1084/0, WFBS

 $9\text{-}12\text{=}0/745,\,8\text{-}12\text{=-}713/0,\,8\text{-}13\text{=}0/452,\,6\text{-}13\text{=-}293/0,\,6\text{-}14\text{=-}156/328}$

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.





Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
J0525-2422	F15	Floor	1	1	I73198343
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:57 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 6-0-0 oc purlins,

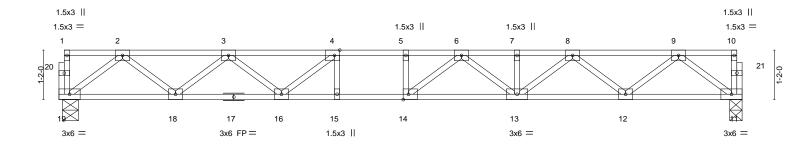
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8

0-1-0





<u>U-1-U</u>			10-0-8	
Plate Offsets (X,Y)				
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.33	Vert(LL) -0.16 13-14 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.62	Vert(CT) -0.23 13-14 >844 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.04 11 n/a n/a	
BCDI 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 82 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

16-1-8

LUMBER-

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 19=0-4-8, 11=0-3-8

Max Grav 19=693(LC 1), 11=693(LC 1)

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

TOP CHORD 2-3=-1443/0, 3-4=-2295/0, 4-5=-2621/0, 5-6=-2621/0, 6-7=-2340/0, 7-8=-2340/0,

8-9=-1438/0

BOT CHORD 18-19=0/864, 16-18=0/1991, 15-16=0/2621, 14-15=0/2621, 13-14=0/2569, 12-13=0/1986,

11-12=0/866

2-19=-1082/0, 2-18=0/753, 3-18=-714/0, 3-16=0/431, 4-16=-524/0, 9-11=-1084/0, WFBS

 $9\text{-}12\text{=}0/745,\,8\text{-}12\text{=-}713/0,\,8\text{-}13\text{=}0/452,\,6\text{-}13\text{=-}293/0,\,6\text{-}14\text{=-}156/328}$

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.



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

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Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
					173198344
J0525-2422	F16	Floor	3	1	
					Lob Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:57 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



Scale = 1:26.1

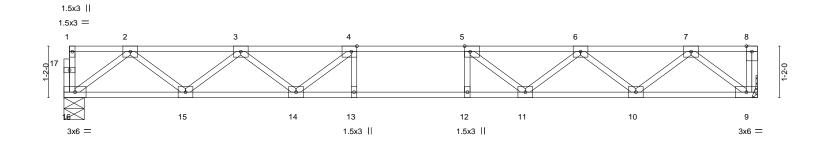


Plate Off	sets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,Edge]		1004							
	0010 (71,17)	[: 0,2 ago], [e.e : 0,2 a	<u></u>								
LOADIN	G (psf)	SPACING-	1-7-3	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.16 11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.21 11-12	>904	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.04 9	n/a	n/a		
BCDL	5.0	Code IRC2021/TP	I2014	Matrix	<-S					Weight: 77 lb	FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3(flat)

REACTIONS.

(size) 16=0-5-8, 9=Mechanical Max Grav 16=674(LC 1), 9=679(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1394/0, 3-4=-2201/0, 4-5=-2478/0, 5-6=-2201/0, 6-7=-1394/0 TOP CHORD

15-16=0/838, 14-15=0/1923, 13-14=0/2478, 12-13=0/2478, 11-12=0/2478, 10-11=0/1923, **BOT CHORD**

9-10=0/839

WEBS 2-16=-1049/0, 2-15=0/724, 3-15=-688/0, 3-14=0/412, 4-14=-515/0, 7-9=-1052/0,

 $7\text{-}10\text{=}0/724,\,6\text{-}10\text{=-}687/0,\,6\text{-}11\text{=}0/412,\,5\text{-}11\text{=-}515/0$

NOTES-

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



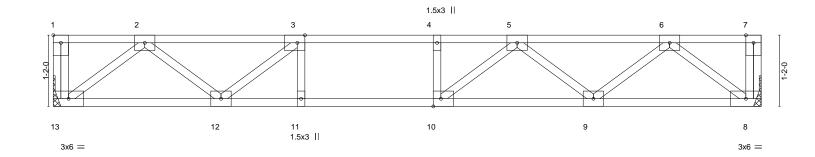


Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
					173198345
J0525-2422	F18	FLOOR	5	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:58 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1-3-0 2-1-4

Scale = 1:18.9



	11-7-4												
Plate Offsets (X,Y) [1:Edge,0-1-8], [3:0-1-8,Edge], [10:0-1-8,Edge]													
LOADING (p	sf)	SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP	
TCLL 40	0.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.09	9-10	>999	480	MT20	244/190	
TCDL 10	0.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.11	9-10	>999	360			
BCLL C	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	8	n/a	n/a			

BRACING-

TOP CHORD

BOT CHORD

Matrix-S

LUMBER-2x4 SP No.1(flat) TOP CHORD

5.0

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

REACTIONS. (size) 13=Mechanical, 8=Mechanical

Max Grav 13=499(LC 1), 8=499(LC 1)

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

Code IRC2021/TPI2014

TOP CHORD 2-3=-944/0, 3-4=-1317/0, 4-5=-1317/0, 5-6=-947/0

BOT CHORD 12-13=0/596, 11-12=0/1317, 10-11=0/1317, 9-10=0/1243, 8-9=0/608 2-13=-747/0, 2-12=0/454, 3-12=-493/0, 6-8=-763/0, 6-9=0/441, 5-9=-386/0, **WEBS**

5-10=-37/279

NOTES-

BCDL

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



Weight: 59 lb

Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

FT = 20%F, 11%E

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

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Job Truss Truss Type Qty Ply Lot 192 Ballard Road 173198346 J0525-2422 F19 Floor 8 Job Reference (optional)

2-1-4

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:58 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

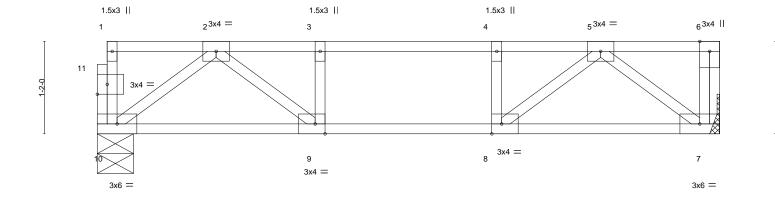
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

1-3-0 H

Scale = 1:14.5



ĺ		7-10-4	1
		7-10-4	
Plate Offsets (X Y)	[8:0-1-8 Edge] [9:0-1-8 Edge] [11:0-1-8 0-1-8]		

i iato on	10010 (71, 17	[0.0 1 0,2490], [0.0 1 0,2490], [11.0 1	0,0 1 0]		
LOADIN	G (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.19	Vert(LL) -0.02 9-10 >999 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.16	Vert(CT) -0.03 9-10 >999 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.00 7 n/a n/a	
BCDL	5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 40 lb FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3(flat)

(size) 10=0-5-8, 7=Mechanical

Max Grav 10=329(LC 1), 7=334(LC 1)

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

TOP CHORD 2-3=-584/0, 3-4=-584/0, 4-5=-584/0 9-10=0/365, 8-9=0/584, 7-8=0/366 **BOT CHORD**

WEBS 2-10=-454/0, 2-9=0/315, 5-7=-459/0, 5-8=0/315

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.





Job Truss Truss Type Qty Ply Lot 192 Ballard Road 173198347 J0525-2422 F20 Floor 3 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:58 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

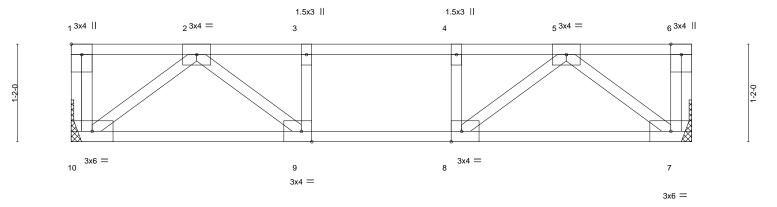
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

1-3-0

Scale = 1:13.8



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

riale Olisels (A, I)	[1.Euge,0-1-0], [0.0-1-0,Euge], [9.0-1-0	,Lugej		
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.14	Vert(LL) -0.02 7-8 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.14	Vert(CT) -0.02 9-10 >999 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.00 7 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 39 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

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=Mechanical

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-526/0, 3-4=-526/0, 4-5=-526/0

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

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

NOTES-

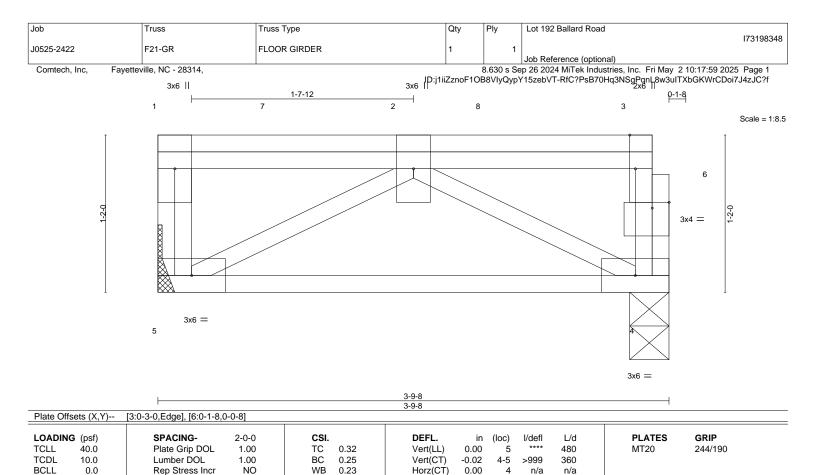
- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d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



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/TP11 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)





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat)

BOT CHORD WFBS 2x4 SP No.3(flat)

5.0

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

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

Code IRC2021/TPI2014

TOP CHORD 1-5=-282/0

BOT CHORD 4-5=0/835

WEBS 2-5=-955/0. 2-4=-941/0

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 517 lb down at 0-11-2, and 517 Ib down at 2-6-5 on top chord. The design/selection of such connection device(s) is the responsibility of others.

Matrix-P

6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 4-5=-10, 1-3=-100 Concentrated Loads (lb)

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



Weight: 27 lb

Structural wood sheathing directly applied or 3-9-8 oc purlins,

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

except end verticals.

FT = 20%F, 11%E

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)



Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
					173198349
J0525-2422	FKW1	Floor Supported Gable	1	1	l
					Llob Reference (optional)

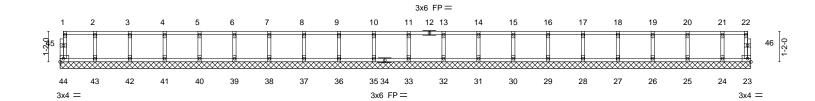
8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:17:59 2025 Page 1

0-<u>1</u>-8

ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Scale = 1:44.1

0-1-8



	26-5-0							
LOADING (psf) TCLL 40.0	SPACING- 1-7-3 Plate Grip DOL 1.00		EFL. in ert(LL) n/a	(/	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01 Ve	ert(CT) n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr YES		orz(CT) 0.00	23	n/a	n/a	Weight: 109 lb	FT = 20%F 11%F
BCDL 5.0	Code IRC2021/TPI2014	Matrix-R					Weight: 109 lb	FT = 20%F, 11%E

26-5-0

LUMBER-**BRACING-**

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

OTHERS 2x4 SP No.3(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

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

REACTIONS. All bearings 26-5-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 44, 23, 43, 42, 41, 40, 39, 38, 37, 36, 35, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24

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.



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)



Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
					I73198350
J0525-2422	FKW2	Floor Supported Gable	1	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:18:00 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

 $0_1 1_7 8$

Scale = 1:24.5

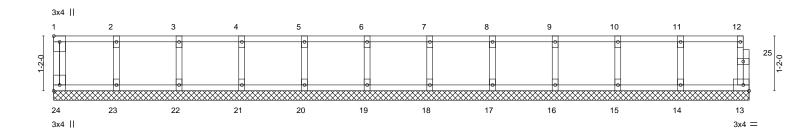


Plate Offsets (X,Y)	Plate Offsets (X,Y) [1:Edge,0-1-8], [24:Edge,0-1-8]										
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.06 BC 0.01 WB 0.02	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 244/190 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 13 n/a								
BCDL 5.0	Code IRC2021/TPI2014	Matrix-R	Weight: 63 lb FT = 20%F	[:] , 11%E							

14-9-8

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

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

REACTIONS. All bearings 14-9-8.

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

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

NOTES-

LUMBER-

- 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.





Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
					I73198351
J0525-2422	FKW4	Floor Supported Gable	1	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 10:18:00 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0₁1₃8

Scale = 1:19.1

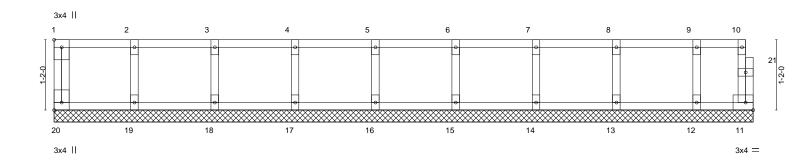


Plate Offsets (X) [1:Edge,0-1-8], [20:Edge,0-	-1-8]								
LOADING (psf	SPACING-	1-7-3	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.05	Vert(LL)	n/a	· -	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI	2014	Matrix-R						Weight: 50 lb	FT = 20%F, 11%E

11-7-4

LUMBER-TOP CHORD 2x4 SP No 1(flat) BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS **OTHERS** 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

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

REACTIONS. All bearings 11-7-4.

(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.



May 5,2025



Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

₹

This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

4 × 4

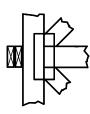
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

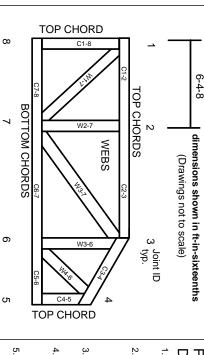
Industry Standards: ANSI/TPI1: National I

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek



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

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.

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

3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

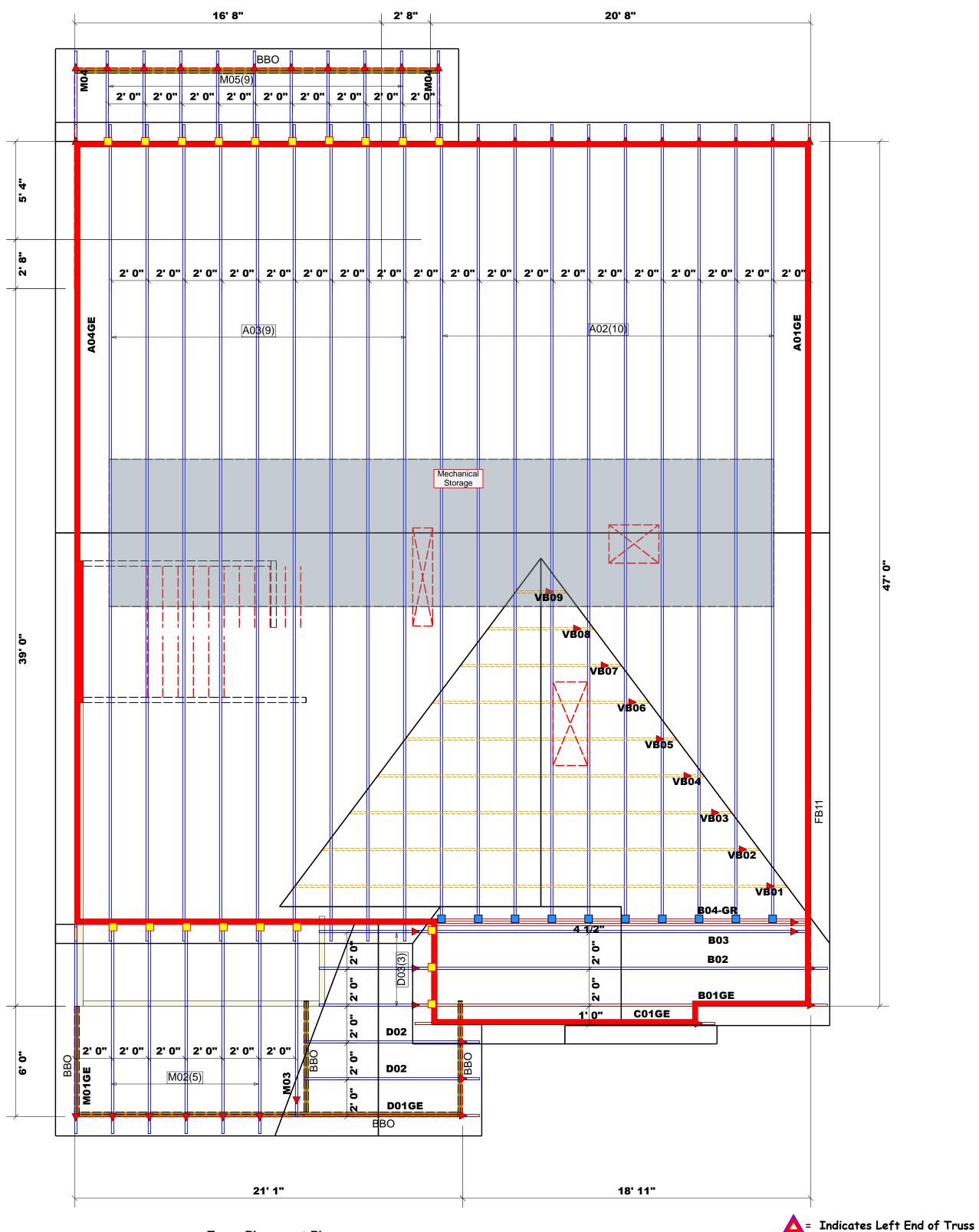
= 2658.25 sq.ft. Roof Area Ridge Line = 79.98 ft. = 0 ft. Hip Line = 195.56 ft. Horiz. OH = 217.66 ft. Raked OH Decking = 91 sheets

All Walls Shown Are Considered Load Bearing

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

WALL SCHE	DULE
1st Floor Walls	
2nd Floor Walls	
Non-Bearing Walls	
Garage Walls Dropped	

						1			
Nail Info	ormation	Connector Information							
Truss	Header	Supported Member	Qty	Manuf	Product	Sym			
16d/3-1/2"	16d/3-1/2"	NA	10	USP	HUS26				
10d/3"	10d/3"	NA	19	USP	JUS24				



COMTECH **ROOF & FLOOR**

TRUSSES & BEAMS

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

aring reactions less than or equal to 3000# are amed to comply with the prescriptive Code juirements. The contractor shall refer to the ached Tables (derived from the prescriptive Code juirements) to determine the minimum foundation are and number of wood studs required to support actions greater than 3000# but not greater than 3000#. A registered design professional shall be tained to design the support system for any action that exceeds those specified in the attached ables. A registered design professional shall be stained to design the support system for all seactions that exceed 15000#.

Johnnie Baggett

Johnnie Baggett

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b))

NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER END REACTION
(UP TO)
REQ'D STUDS FOR
(3) PLY HEADER END REACTION
(UP TO)
REQ'D STUDS FOR 3400 1 1700 1 2550 1 3400 2 6800 2 5100 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

Fuquay-Varina / Wake Baggett Johnnie Baggett Johnnie l 5/2/25 DRAWN BY SALES REP. DATE REV. CITY / CO. ADDRESS

192 Ballard New Home Inc B0325-1176 إ JOB NAME SEAL DATE BUILDER QUOTE ; THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

Craftsman

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 design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com (Reference Engineered Truss Drawing)

Do NOT Erect Truss Backwards

Truss Placement Plan SCALE: NTS



Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0525-2421

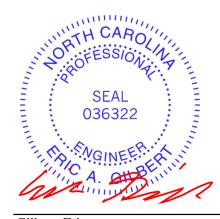
Lot 192 Ballard Road

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: I73267489 thru I73267514

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

North Carolina COA: C-0844



May 7,2025

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 192 Ballard Road 173267489 J0525-2421 COMMON SUPPORTED GAB A01GE Job Reference (optional)

6x6 =

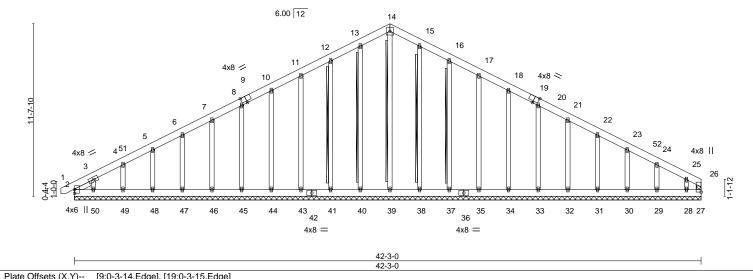
Fayetteville, NC - 28314, Comtech, Inc.

21-3-4 21-3-4

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:39 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 42-3-0

20-11-12

Scale = 1:77.7



1 1010 011												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	27	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2	014	Matri	x-S						Weight: 386 lb	FT = 25%

LUMBER-

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

2x4 SP No 2 WFBS **OTHERS** 2x4 SP No.2

SLIDER Left 2x4 SP No.2 1-3-4 BRACING-TOP CHORD

BOT CHORD

WEBS

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

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

T-Brace: 2x4 SPF No.2 - 14-39, 13-40, 12-41, 15-38

, 16-37

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 42-3-0.

Max Horz 2=240(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 27, 2, 40, 41, 43, 44, 45, 46, 47, 48, 49, 38, 37, 35, 34, 33, 32, 31, 30, 29 except 50=-164(LC 12),

28=-215(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 27, 2, 39, 40, 41, 43, 44, 45, 46, 47, 48, 49, 50, 38, 37, 35, 34, 33, 32, 31, 30, 29, 28

13-14=-151/423, 14-15=-151/423, 15-16=-140/389, 16-17=-118/325, 17-18=-97/267

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-363/124, 3-4=-254/119, 10-11=-97/267, 11-12=-118/325, 12-13=-140/389,

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 Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 21-3-4, Corner(3R) 21-3-4 to 25-8-1 Exterior(2N) 25-8-1 to 42-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 2, 40, 41, 43, 44, 45, 46, 47, 48, 49, 38, 37, 35, 34, 33, 32, 31, 30, 29 except (jt=lb) 50=164, 28=215.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



May 7,2025

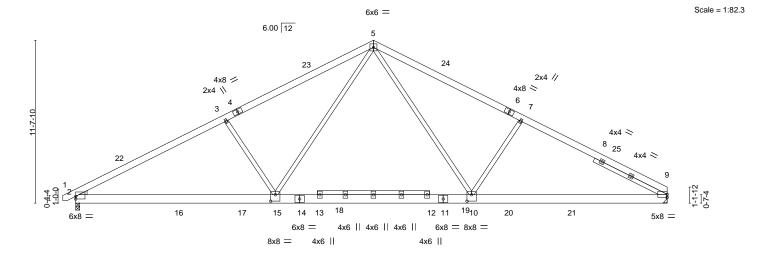
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:39 2025 Page 1 Comtech, Inc. ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 10-9-0 31-9-8 42-3-0 21-3-4 10-9-0 10-6-4 10-6-4 10-5-8



	14-3-2	28-3-6	42-3-0
	14-3-2	14-0-5	13-11-10
Plate Offsets (X,Y)	[2:0-0-0,0-2-5], [9:0-0-0,0-2-10], [10:0-4-0,0-5-8], [15:0-4-0,0-5-8]	

BRACING-

TOP CHORD

BOT CHORD

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 0.75	Vert(LL) -0.23 2-15 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.73	Vert(CT) -0.41 2-15 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.07 9 n/a n/a	
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S	Wind(LL) 0.08 2-15 >999 240	Weight: 322 lb FT = 25%

LUMBER-

TOP CHORD 2x6 SP No 1 **BOT CHORD** 2x8 SP No.1 *Except*

12-13: 2x4 SP No.1 2x4 SP No.2

WEBS WEDGE

Left: 2x4 SP No.3

SLIDER Right 2x4 SP No.2 5-9-7

REACTIONS. (size) 2=0-3-8, 9=Mechanical

Max Horz 2=-146(LC 8)

Max Uplift 2=-113(LC 12), 9=-100(LC 13) Max Grav 2=2105(LC 2), 9=2060(LC 2)

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

TOP CHORD 2-3=-3453/603, 3-5=-3193/633, 5-7=-3127/629, 7-9=-3395/605 **BOT CHORD** 2-15=-406/3014, 10-15=-132/2029, 9-10=-382/2891

WEBS 3-15=-566/355, 5-15=-157/1392, 5-10=-142/1302, 7-10=-544/352

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 21-3-4, Exterior(2R) 21-3-4 to 25-8-1, Interior(1) 25-8-1 to 42-3-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb)



Structural wood sheathing directly applied or 3-1-9 oc purlins.

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

May 7,2025

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

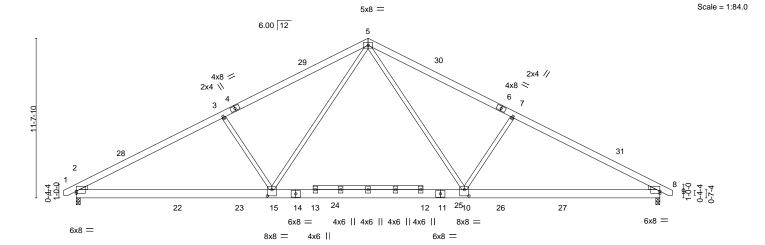
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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Fayetteville, NC - 28314, ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 10-9-0 31-9-8 42-6-8 10-9-0 10-6-4 10-6-4 10-9-0



1	14-3-2	28-3-6	42-6-8
	14-3-2	14-0-5	14-3-2
Plate Offsets (X,Y)	[2:0-0-0,0-1-13], [8:0-0-0,0-1-13], [10:0-4-0,0-	5-8], [15:0-4-0,0-5-8]	

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.25 10-15 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.59	Vert(CT) -0.38 10-15 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.07 8 n/a n/a	
BCDL	10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL) 0.08 10-15 >999 240	Weight: 318 lb FT = 25%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x6 SP No 1 **BOT CHORD** 2x8 SP No.1 *Except*

12-13: 2x4 SP No.1

WFBS 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 8=0-3-8

Max Horz 2=143(LC 11)

Max Uplift 2=-112(LC 12), 8=-112(LC 13) Max Grav 2=2117(LC 2), 8=2117(LC 2)

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

TOP CHORD 2-3=-3480/610, 3-5=-3201/634, 5-7=-3201/634, 7-8=-3480/610 BOT CHORD

2-15=-399/3061, 10-15=-136/2064, 8-10=-396/3006

WEBS $3-15=-602/350,\ 5-15=-143/1360,\ 5-10=-143/1360,\ 7-10=-602/350$

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 21-3-4, Exterior(2R) 21-3-4 to 25-8-1, Interior(1) 25-8-1 to 43-3-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

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Job Truss Truss Type Qty Ply Lot 192 Ballard Road 173267492 J0525-2421 COMMON SUPPORTED GAB A04GE Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:41 2025 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 21-3-4 21-3-4 42-6-8 21-3-4

Scale = 1:79.1

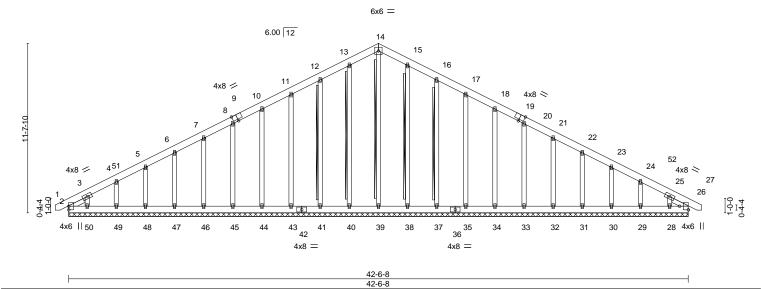


Plate Offsets (X,Y)--[9:0-3-14,Edge], [19:0-3-14,Edge], [26:Edge,0-7-2] LOADING (psf) SPACING-2-0-0 DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00 26 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.02 Vert(CT) -0.00 26 120 n/r WB **BCLL** 0.0 Rep Stress Incr YES 0.14 Horz(CT) 0.01 26 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-S Weight: 391 lb FT = 25%

LUMBER-

TOP CHORD 2x6 SP No 1 **BOT CHORD** 2x6 SP No.1 OTHERS 2x4 SP No 2

SLIDER Left 2x4 SP No.2 1-3-4, Right 2x4 SP No.2 1-3-4 BRACING-

TOP CHORD **BOT CHORD** WFBS

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

T-Brace: 2x4 SPF No.2 - 14-39, 13-40, 12-41, 15-38

, 16-37

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 42-6-8.

Max Horz 2=223(LC 16) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 40, 41, 43, 44, 45, 46, 47, 48,

49, 38, 37, 35, 34, 33, 32, 31, 30, 29 except 50=-167(LC 12), 28=-137(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 39, 40, 41, 43, 44, 45, 46, 47,

48, 49, 50, 38, 37, 35, 34, 33, 32, 31, 30, 29, 28, 26

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-372/106, 3-4=-262/92, 11-12=-111/289, 12-13=-134/353, 13-14=-145/389,

14-15=-145/389, 15-16=-134/353, 16-17=-111/289, 25-26=-272/83

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 Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 21-3-4, Corner(3R) 21-3-4 to 25-8-1 , Exterior(2N) 25-8-1 to 43-3-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 40, 41, 43, 44, 45, 46, 47, 48, 49, 38, 37, 35, 34, 33, 32, 31, 30, 29 except (jt=lb) 50=167, 28=137.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



May 7,2025

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Job Truss Truss Type Qty Ply Lot 192 Ballard Road 173267493 J0525-2421 B01GE COMMON STRUCTURAL GA Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:42 2025 Page 1 Comtech, Inc. ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 10-3-8 15-3-8 20-7-0 5-0-0 5-0-0 5-3-8 Scale = 1:50.1 6x6 = 6 5x5 = 8.00 12 4x4 🖊 4x4 ≫ 8 ⁹10 \aleph 34 12 35 11 4x6 / 4x6 =13 4x6 || 14 15 4x12 || 6-1-8 10-3-8 13-4-4 20-7-0 6-1-8 4-2-0 3-0-12 7-2-12 Plate Offsets (X,Y)--[2:0-7-0,0-0-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP

TCLL 20.0 Plate Grip DOL 1.15 TC 0.50 Vert(LL) -0.02 11-13 >999 360 MT20 244/190 TCDL Vert(CT) 10.0 Lumber DOL 1.15 BC 0.45 -0.02 4-32 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.06 Horz(CT) 0.01 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-AS Wind(LL) 0.01 15-26 >999 240 Weight: 176 lb FT = 25%

LUMBER-**BRACING-**

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

2x4 SP No 2 WFBS **OTHERS** 2x4 SP No.2

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

JOINTS

Structural wood sheathing directly applied. Except:

1 Row at midpt 6-9

6-0-0 oc bracing: 4-5

BOT CHORD Rigid ceiling directly applied. Except:

1 Row at midpt 1 Brace at Jt(s): 5

REACTIONS. All bearings 6-5-0 except (jt=length) 9=0-3-8, 13=0-3-8.

(lb) - Max Horz 2=575(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 4 except 9=-230(LC 12), 15=-494(LC 12), 13=-159(LC 12) All reactions 250 lb or less at joint(s) 14 except 2=613(LC 1), 9=546(LC 19), 15=699(LC 19), Max Grav

4=316(LC 19), 13=704(LC 19), 2=613(LC 1)

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

TOP CHORD 2-6=-965/893, 6-7=-641/422, 7-9=-718/346, 4-5=-257/300

BOT CHORD 2-15=-596/698, 14-15=-596/698, 4-14=-596/698, 4-13=-266/586, 11-13=-266/586,

9-11=-266/586

WEBS 7-11=-43/284

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) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 10-3-8, Exterior(2E) 20-7-0 to 21-4-7 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) 2, 4, 2 except (it=lb) 9=230, 15=494, 13=159,
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



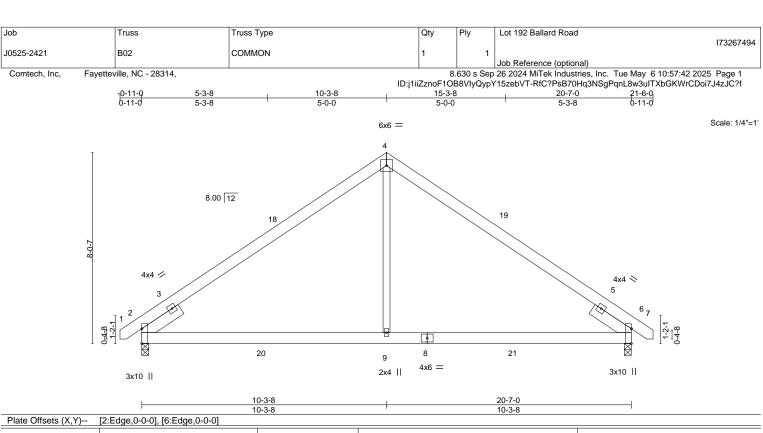
May 7,2025

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LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.10	9-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.14	9-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code IRC2021/TI	PI2014	Matri	x-AS	Wind(LL)	0.06	9-16	>999	240	Weight: 131 lb	FT = 25%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

SLIDER Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0

REACTIONS.

(size) 6=0-3-8, 2=0-3-8 Max Horz 2=-177(LC 10) Max Uplift 6=-52(LC 13), 2=-52(LC 12) Max Grav 6=1119(LC 20), 2=1119(LC 19)

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

TOP CHORD 2-4=-1223/237, 4-6=-1223/237 **BOT CHORD** 2-9=-11/958, 6-9=-11/958

WEBS 4-9=0/771

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) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 10-3-8, Exterior(2R) 10-3-8 to 14-8-5, Interior(1) 14-8-5 to 21-4-7 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) 6, 2.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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)



Job Truss Truss Type Qty Ply Lot 192 Ballard Road 173267495 J0525-2421 B03 Common Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:43 2025 Page 1 Comtech, Inc. ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 10-3-8 15-3-8 20-7-0 5-0-0 5-0-0 5-3-8 Scale: 1/4"=1' 6x6 = 3 8.00 12 17 4x4 // 4x4 💸 1-2-1 1-2-1 18 6 19 7 4x6 =2x4 || 3x10 || 3x10 || 10-3-8 20-7-0 10-3-8 10-3-8

Plate Offsets (X,Y)-- [1:0-5-8,Edge], [5:0-7-8,Edge]

LOADING	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.10	7-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.15	7-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.03	1	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2	014	Matri	x-AS	Wind(LL)	0.06	7-10	>999	240	Weight: 127 lb	FT = 25%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

SLIDER Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0

REACTIONS.

(size) 1=0-3-8, 5=0-3-8 Max Horz 1=164(LC 9) Max Uplift 1=-41(LC 12), 5=-41(LC 13) Max Grav 1=1075(LC 19), 5=1075(LC 20)

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

TOP CHORD 1-3=-1226/237, 3-5=-1226/237 **BOT CHORD** 1-7=-42/955, 5-7=-42/955

WEBS 3-7=0/771

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) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-3-8, Exterior(2R) 10-3-8 to 14-8-5, Interior(1) 14-8-5 to 20-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

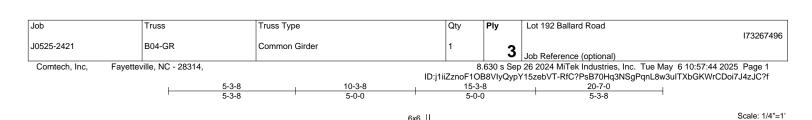


May 7,2025

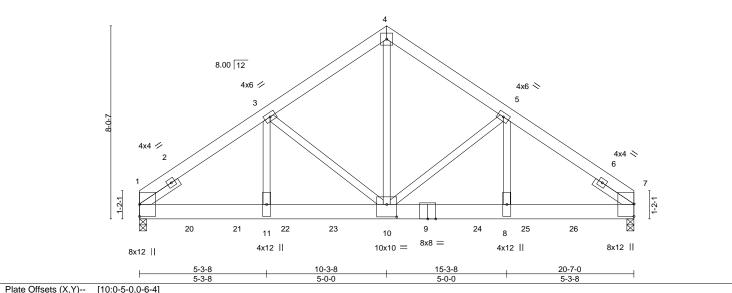
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)





6x6 ||



- take there (1,1,1) [1,1,1,1,1]					
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.11 8-10 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.18 8-10 >999 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.83	Horz(CT) 0.05 7 n/a n/a	
BCDL	10.0	Code IRC2021/TPI2014	Matrix-MS	Wind(LL) 0.05 8-10 >999 240	Weight: 501 lb FT = 25%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No 1 **BOT CHORD** 2x8 SP 2400F 2.0E 2x4 SP No 2 WFBS

SLIDER Left 2x4 SP No.2 1-11-0, Right 2x4 SP No.2 1-11-0

REACTIONS.

(size) 1=0-3-8, 7=0-3-8 Max Horz 1=-164(LC 27) Max Uplift 1=-558(LC 8), 7=-641(LC 9) Max Grav 1=10140(LC 2), 7=11711(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-12907/735, 3-4=-9739/613, 4-5=-9741/613, 5-7=-13056/743 BOT CHORD 1-11=-611/10472. 10-11=-611/10472. 8-10=-544/10603. 7-8=-544/10603

WEBS $4\text{-}10\text{=-}570/10147, 5\text{-}10\text{=-}3195/291, 5\text{-}8\text{=-}191/4141, 3\text{-}10\text{=-}3025/281, 3\text{-}11\text{=-}179/3963}$

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-5-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) 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. 3) Unbalanced roof live loads have been considered for this design.
- 4) 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
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=558 7=641
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2040 lb down and 120 lb up at 2-0-12, 2040 lb down and 120 lb up at 4-0-12, 2040 lb down and 120 lb up at 6-0-12, 2040 lb down and 120 lb up at 8-0-12, 2040 lb down and 120 lb up at 10-0-12, 2040 lb down and 120 lb up at 12-0-12, 2040 lb down and 120 lb up at 14-0-12, 2040 lb down and 120 lb up at 16-0-12, and 2040 lb down and 120 lb up at 18-0-12, and 2045 lb down and 115 lb up at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

May 7,2025

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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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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 192 Ballard Road
J0525-2421	B04-GR	Common Girder	1	3	173267496

Comtech, Inc, Fayetteville, NC - 28314,

Job Reference (optional)
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:44 2025 Page 2 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 12-16=-20

Concentrated Loads (lb)

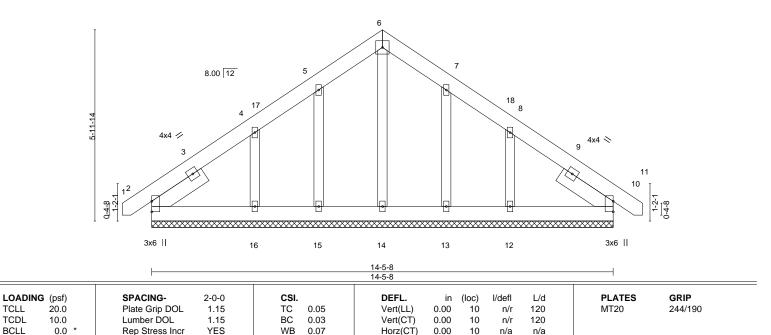
Vert: 9=-1664(B) 10=-1664(B) 18=-1668(B) 20=-1664(B) 21=-1664(B) 22=-1664(B) 23=-1664(B) 24=-1664(B) 25=-1664(B) 26=-1664(B) 2





Job Truss Truss Type Qty Ply Lot 192 Ballard Road 173267497 J0525-2421 C01GE COMMON SUPPORTED GAB Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:44 2025 Page 1 Comtech, Inc. ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-2-12 7-2-12 14-5-8 15-4-8

> Scale = 1:36.1 5x5 =



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TCLL

TCDL

BCLL

BCDL

2x6 SP No.1

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

10.0

SLIDER Left 2x6 SP No.1 1-11-5, Right 2x6 SP No.1 1-11-5

REACTIONS. All bearings 14-5-8.

(lb) -Max Horz 2=-163(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=-173(LC 12), 12=-166(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 13 except 16=281(LC 19), 12=273(LC 20)

Matrix-S

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

Code IRC2021/TPI2014

WEBS 4-16=-207/267, 8-12=-201/266

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 Corner(3E) -0-9-7 to 3-7-6, Exterior(2N) 3-7-6 to 7-2-12, Corner(3R) 7-2-12 to 11-7-9, Exterior(2N) 11-7-9 to 15-2-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 13 except (it=lb) 16=173, 12=166
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10.



Weight: 115 lb

Structural wood sheathing directly applied or 6-0-0 oc purlins.

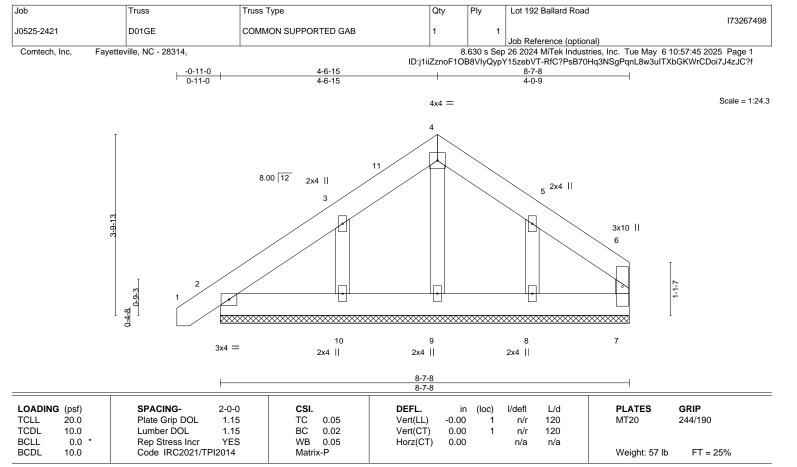
Rigid ceiling directly applied or 10-0-0 oc bracing.

FT = 25%

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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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 WFBS **OTHERS** 2x4 SP No.2

REACTIONS. All bearings 8-7-8. (lb) -

Max Horz 2=102(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8 except 10=-128(LC 12) Max Grav All reactions 250 lb or less at joint(s) 7, 2, 9, 10, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **WEBS** 3-10=-203/292, 5-8=-163/255

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 Corner(3E) -0-9-7 to 3-7-6, Exterior(2N) 3-7-6 to 4-6-15, Corner(3E) 4-6-15 to 8-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8 except (jt=lb) 10=128.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



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

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Job Truss Truss Type Qty Ply Lot 192 Ballard Road 173267499 J0525-2421 D02 COMMON 2 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:45 2025 Page 1 Comtech, Inc. ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 4-6-15 4-6-15 Scale = 1:25.8 4x4 = 3 8.00 12 4x4 > 0-4-8 0-9-3_ 6 2x4 || 3x4 = 3x6 II 4-6-15 8-7-8 4-6-15 4-0-9 Plate Offsets (X,Y)-- [5:Edge,0-4-5]

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL)	0.01	6-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.08	Vert(CT)	-0.01	6-13	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014	Matrix-AS						Weight: 55 lb	FT = 25%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

SLIDER Right 2x4 SP No.2 1-11-0

REACTIONS.

(size) 5=0-3-0, 2=0-3-0 Max Horz 2=81(LC 9) Max Uplift 5=-47(LC 8), 2=-57(LC 9) Max Grav 5=343(LC 1), 2=394(LC 1)

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

TOP CHORD 2-3=-361/478, 3-5=-283/499 **BOT CHORD** 2-6=-308/236, 5-6=-308/236

WEBS 3-6=-365/179

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) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 4-6-15, Exterior(2E) 4-6-15 to 8-7-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

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Job Truss Truss Type Qty Ply Lot 192 Ballard Road 173267500 J0525-2421 D03 3 Common Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

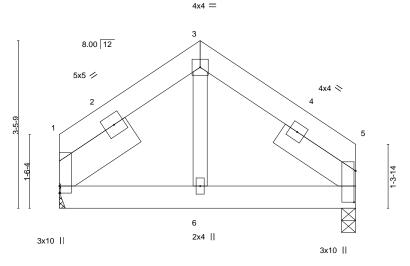
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:46 2025 Page 1

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 2-10-15 2-10-15

Scale: 1/2"=1'



2-10-15	6-1-8
2-10-15	3-2-9

Plate Offsets	(X,Y)	[5:0-7-12,0-0-6]
---------------	-------	------------------

LOADIN	VI /	SPACING- 2-0-		CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES		GRIP
TCLL	20.0	Plate Grip DOL 1.1	5	TC	0.06	Vert(LL)	0.00	6	>999	240	MT20		244/190
TCDL	10.0	Lumber DOL 1.1	5	BC	0.03	Vert(CT)	-0.00	6	>999	240			
BCLL	0.0 *	Rep Stress Incr YES	3	WB	0.04	Horz(CT)	0.00	1	n/a	n/a			
BCDL	10.0	Code IRC2021/TPI2014		Matri	x-AS						Weight: 4	17 lb	FT = 25%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x8 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0

REACTIONS. (size) 1=Mechanical, 5=0-3-8

Max Horz 1=-51(LC 8)

Max Uplift 1=-29(LC 9), 5=-32(LC 8) Max Grav 1=245(LC 1), 5=245(LC 1)

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

TOP CHORD 1-3=-156/359, 3-5=-156/343

WFBS 3-6=-262/104

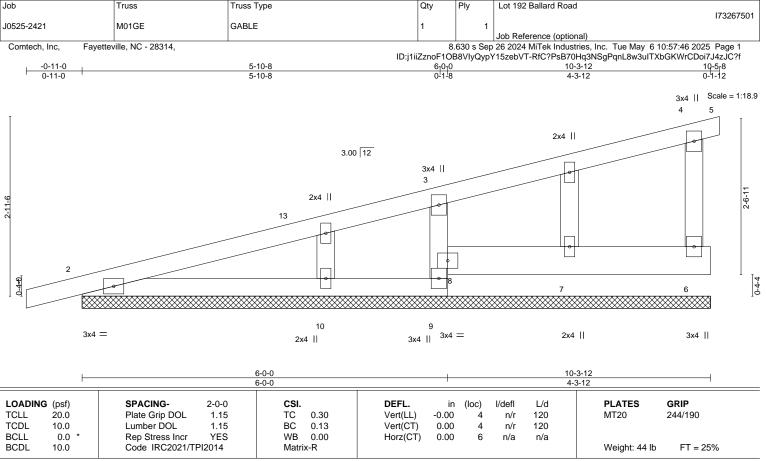
NOTES-

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



May 7,2025





LUMBER-

Job

Truss

BRACING-

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

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

6-8: 2x6 SP No.1

Ply

Lot 192 Ballard Road

WFBS 2x4 SP No.2 **OTHERS** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-3-12.

(lb) -Max Horz 2=135(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 9 except 8=-190(LC 12) Max Grav All reactions 250 lb or less at joint(s) 6, 2, 9, 10, 7 except 8=346(LC 1)

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

BOT CHORD 3-8=-337/299

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 10-5-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 9 except
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 7.



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/TP11 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)



173267502 J0525-2421 MONOPITCH 5 M02 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:46 2025 Page 1 Comtech, Inc. ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-11-0 5-10-8 0-11-0 5-10-8 4-3-12 3x4 || Scale = 1:18.8 5 3.00 12 3x4 II 3 2-6-1 13 7 14 9 3x4 II 3x4 = 3x4 = 3x4 =6-0-0 10-3-12 6-0-0 4-2-0 Plate Offsets (X,Y)--[2:0-2-7,Edge], [9:Edge,0-1-8] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.27 Vert(LL) 0.08 9-12 >872 240 MT20 244/190 TCDL Vert(CT) 10.0 Lumber DOL 1.15 BC 0.23 -0.05 9-12 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.00 Horz(CT) -0.00 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-AS Weight: 41 lb FT = 25%

BRACING-

TOP CHORD

BOT CHORD

Qty

Ply

Lot 192 Ballard Road

LUMBER-

Job

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

6-8: 2x6 SP No.1 WFBS 2x4 SP No.2

REACTIONS.

(size) 7=Mechanical, 2=0-3-0, 8=0-3-8

Max Horz 2=105(LC 8)

Truss

Truss Type

Max Uplift 7=-22(LC 12), 2=-106(LC 8), 8=-125(LC 8) Max Grav 7=169(LC 1), 2=272(LC 1), 8=448(LC 1)

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

BOT CHORD 3-8=-323/302

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 10-5-8 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 7 except (jt=lb) 2=106, 8=125.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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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173267503 J0525-2421 M03 MONOPITCH Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:47 2025 Page 1 Comtech, Inc. ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-10-8 5-10-8 4-3-12 Scale = 1:17.8 3 3x4_1 3.00 12 3x4 || 12 0-4-0 13 8 3x4 || 3x4 = 3x4 =10-3-12 6-0-0 4-2-0 Plate Offsets (X,Y)--[1:0-2-15,Edge], [8:Edge,0-1-8] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) 0.08 8-11 >835 240 MT20 244/190 TCDL Vert(CT) 10.0 Lumber DOL 1.15 BC 0.24 -0.05 8-11 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.00 Horz(CT) -0.00 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-AS Weight: 40 lb FT = 25%

BRACING-

TOP CHORD

BOT CHORD

Qty

Ply

Lot 192 Ballard Road

LUMBER-

Job

Truss

Truss Type

TOP CHORD 2x4 SP No.1 BOT CHORD

2x4 SP No.1 *Except* 5-7: 2x6 SP No.1 **WEBS** 2x4 SP No.2

REACTIONS.

(size) 1=0-3-0, 6=Mechanical, 7=0-3-8 Max Horz 1=94(LC 8)

Max Uplift 1=-70(LC 8), 6=-22(LC 12), 7=-129(LC 8) Max Grav 1=212(LC 1), 6=169(LC 1), 7=453(LC 1)

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

BOT CHORD 2-7=-325/304

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-5-8 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 1, 6 except (jt=lb) 7=129.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



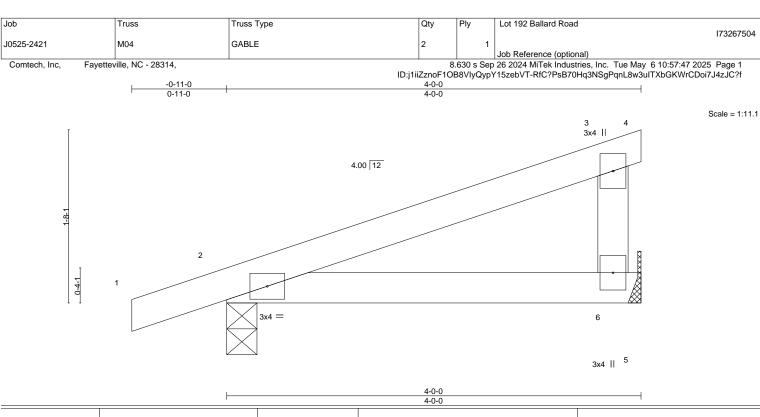
Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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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LOADING (psf	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip [OOL 1.15	TC	0.20	Vert(LL)	0.04	6-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DC	L 1.15	BC	0.21	Vert(CT)	-0.02	6-9	>999	240		
BCLL 0.0	* Rep Stress	Incr YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2	021/TPI2014	Matri	x-MP						Weight: 15 lb	FT = 25%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.2

Max Uplift 6=-94(LC 8), 2=-125(LC 8)

(size) 6=Mechanical, 2=0-3-8 Max Horz 2=81(LC 8)

Max Grav 6=154(LC 1), 2=211(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; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 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.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=125.



Structural wood sheathing directly applied or 4-0-0 oc purlins,

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

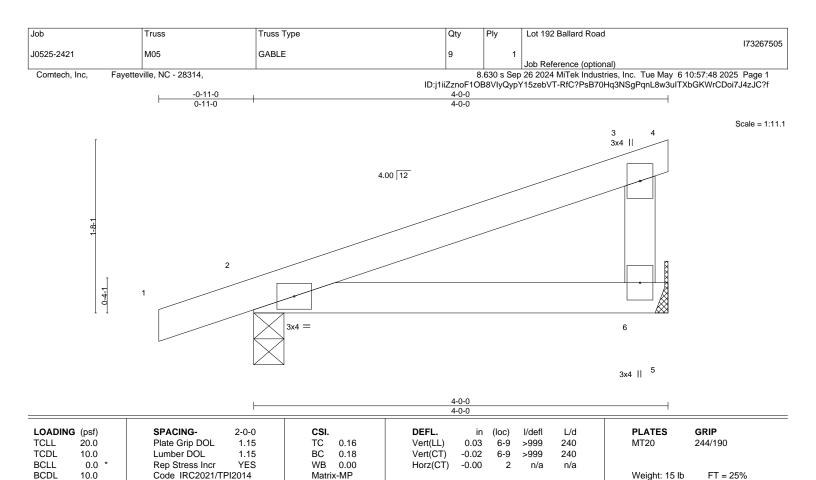
except end verticals.

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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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

BOT CHORD 2x4 SP No.2 WFBS

> (size) 6=Mechanical, 2=0-3-8 Max Horz 2=58(LC 8)

Max Uplift 6=-62(LC 8), 2=-87(LC 8)

Max Grav 6=154(LC 1), 2=211(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 grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 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.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.



Structural wood sheathing directly applied or 4-0-0 oc purlins,

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

except end verticals



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Job Truss Truss Type Qty Ply Lot 192 Ballard Road 173267506 J0525-2421 VB01 **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:48 2025 Page 1 Comtech, Inc. ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 13-4-5 13-4-5 26-8-10 Scale = 1:54.6 4x4 = 6 8.00 12 9 27 26 10 11 3 12 2 13 9-0-0 3x4 / 3x4 × 25 24 23 22 21 19 18 14 20 17 16 15 3x4 = 26-8-10 Plate

	26-8-10	
Offsets (X,Y)	[8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [11:0-0-0,0-0-0], [12:0-0-0,0-0-0]	

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	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	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	13	n/a	n/a		
BCDL	10.0	Code IRC2021/TF	PI2014	Matri	x-S						Weight: 163 lb	FT = 25%

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** WFBS

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt

REACTIONS. All bearings 26-8-10.

(lb) -Max Horz 1=257(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 21, 22, 23, 24, 19, 17, 16, 15 except 25=-130(LC 12),

14=-129(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 13, 20, 21, 22, 23, 24, 19, 17, 16, 15 except 25=262(LC 19), 14=261(LC 20)

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

TOP CHORD 1-2=-251/203

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-Č Exterior(2E) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 13-4-5, Exterior(2R) 13-4-5 to 17-9-2, Interior(1) 17-9-2 to 26-2-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 21, 22, 23, 24, 19, 17, 16, 15 except (jt=lb) 25=130, 14=129.



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

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Job Truss Truss Type Qty Ply Lot 192 Ballard Road 173267507 J0525-2421 VB02 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:49 2025 Page 1 Comtech, Inc. ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 1<u>1-10-5</u> 23-8-10 11-10-5 Scale: 1/4"=1 4x4 = 8.00 12 5 15 14 3x4 // 10 9 12 13 11 8 4x4 = 23-8-10 23-8-1 Plate Offsets (X Y)--[9:0-1-12 0-1-4]

I late Off	1 late 0113013 (A, 1) [0.0 1 12,0 1 4]									
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLA	TES GRIP					
TCLL	20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) n/a - n/a 999 MT2	20 244/190					
TCDL	10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) n/a - n/a 999						
BCLL	0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.00 7 n/a n/a						
BCDL	10.0	Code IRC2021/TPI2014	Matrix-S	Wei	ght: 107 lb FT = 25%					

LUMBER-TOP CHORD

2x4 SP No 1 2x4 SP No.1

BOT CHORD 2x4 SP No.2 OTHERS

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 23-7-8.

(lb) -Max Horz 1=-182(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 8 except 12=-102(LC 12), 10=-102(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=447(LC 22), 12=479(LC 19), 13=402(LC 19),

10=479(LC 20), 8=402(LC 20)

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

WEBS 3-12=-283/204, 2-13=-261/161, 5-10=-282/204, 6-8=-261/161

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) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 11-10-5, Exterior(2R) 11-10-5 to 16-3-2, Interior(1) 16-3-2 to 23-2-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 8 except (jt=lb) 12=102, 10=102.

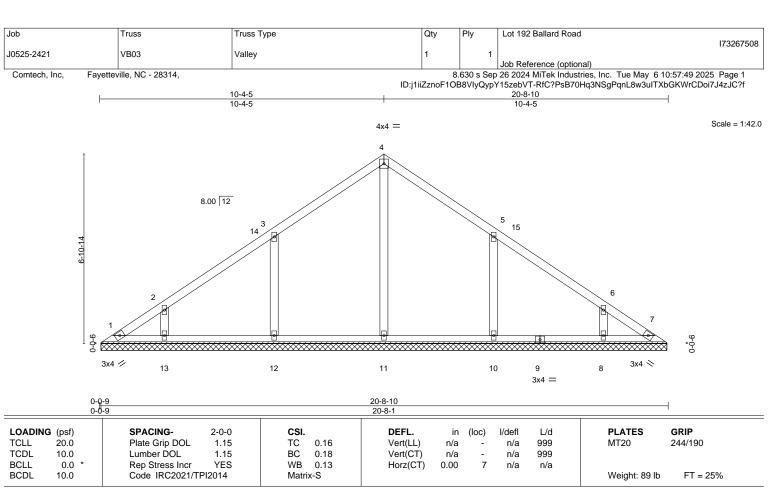


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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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)





LUMBER-

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

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. All bearings 20-7-8.

Max Horz 1=-158(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 8 except 12=-105(LC 12), 10=-105(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=436(LC 19), 12=495(LC 19), 13=324(LC 19), 10=495(LC 20), 8=324(LC 20)

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

WEBS 3-12=-292/209, 5-10=-291/209

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) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 10-4-5, Exterior(2R) 10-4-5 to 14-9-2, Interior(1) 14-9-2 to 20-2-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13, 8 except (jt=lb) 12=105, 10=105.





Job Truss Truss Type Qty Ply Lot 192 Ballard Road 173267509 J0525-2421 VB04 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:50 2025 Page 1 Comtech, Inc. ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 8-10-5 17-8-10 8-10-5 8-10-5 Scale = 1:37.5 4x4 = 8.00 12 2x4 || 2x4 || 4 2 11 5-10-14 10 3x4 ≥ 3x4 / 9 12 8 13 7 6 3x4 = 2x4 || 2x4 | 2x4 || 17-8-10 17-8-1 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.19 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.14 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.09 Horz(CT) 0.00 5 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-S Weight: 72 lb FT = 25%

LUMBER-

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

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. All bearings 17-7-8.

Max Horz 1=-134(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-120(LC 12), 6=-120(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=394(LC 19), 9=525(LC 19), 6=524(LC 20)

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

WEBS 2-9=-327/226, 4-6=-327/226

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) 0-5-15 to 4-10-5, Interior(1) 4-10-5 to 8-10-5, Exterior(2R) 8-10-5 to 13-3-2, Interior(1) 13-3-2 to 17-2-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=120, 6=120,



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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)



173267510 J0525-2421 VB05 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:50 2025 Page 1 Comtech, Inc. ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-4-5 7-4-5 14-8-10 Scale = 1:29.7 4x4 = 3 8.00 12 2x4 || 2x4 || 1-10-14 10 3x4 / 3x4 ≥ 2x4 || 2x4 || 2x4 || 0-0-9 0-0-9 14-8-10 14-8-1 GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.08 Vert(CT) n/a n/a 999 WB 0.06 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 5 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-S Weight: 58 lb FT = 25%

Qty

Ply

Lot 192 Ballard Road

LUMBER-

Job

Truss

Truss Type

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

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. All bearings 14-7-8.

Max Horz 1=110(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=257(LC 1), 8=348(LC 19), 6=348(LC 20)

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

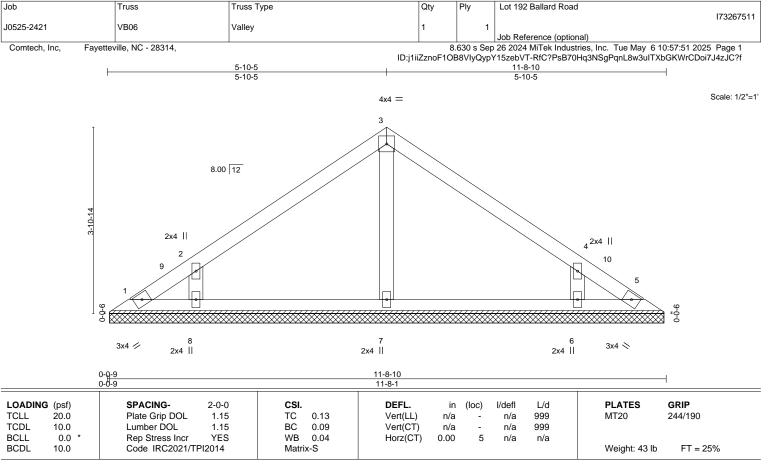
WEBS 2-8=-269/218, 4-6=-269/218

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) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 7-4-5, Exterior(2R) 7-4-5 to 11-9-2, Interior(1) 11-9-2 to 14-2-11 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, 8, 6.







LUMBER-

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

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. All bearings 11-7-8.

Max Horz 1=-86(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=263(LC 1), 8=316(LC 19), 6=316(LC 20)

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

WEBS 2-8=-257/240, 4-6=-257/240

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) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 5-10-5, Exterior(2R) 5-10-5 to 10-3-2, Interior(1) 10-3-2 to 11-2-11 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, 8, 6.





173267512 J0525-2421 **VB07** Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:51 2025 Page 1 Comtech, Inc. ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 4-4-5 Scale = 1:20.1 4x4 =2 8.00 12 9-0-0 9-0-0 3x4 🖊 3x4 <> 2x4 || 0-0-9 0-0-9 8-8-10 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.21 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.11 Vert(CT) n/a n/a 999 WB 0.03 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-P Weight: 30 lb FT = 25%

BRACING-

TOP CHORD

BOT CHORD

Qty

Ply

Lot 192 Ballard Road

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

LUMBER-

REACTIONS.

Job

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

(size) 1=8-7-8, 3=8-7-8, 4=8-7-8

Max Horz 1=-62(LC 8)

Truss

Truss Type

Max Uplift 1=-27(LC 12), 3=-33(LC 13)

Max Grav 1=168(LC 1), 3=168(LC 1), 4=282(LC 1)

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

NOTES-

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

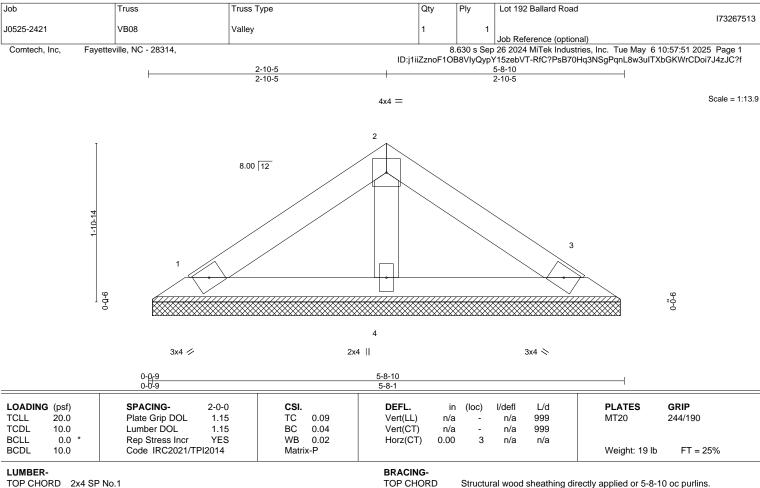




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BOT CHORD

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

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

REACTIONS. (size) 1=5-7-8, 3=5-7-8, 4=5-7-8

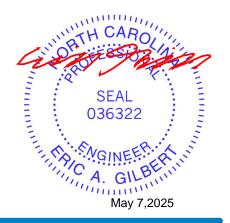
Max Horz 1=-38(LC 8) Max Uplift 1=-16(LC 12), 3=-20(LC 13)

Max Grav 1=103(LC 1), 3=103(LC 1), 4=173(LC 1)

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

NOTES-

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



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Job Truss Truss Type Qty Ply Lot 192 Ballard Road 173267514 J0525-2421 VB09 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 10:57:52 2025 Page 1 Comtech, Inc. ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 1-4-5 2-8-10 Scale = 1:7.3 3x4 =2 8.00 12 3 9-0-0 9-0-0 3x4 / 3x4 × 0,0,9 2-8-10 2-8-1 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.02 Vert(LL) 999 MT20 244/190

LUMBER-

TCDL

BCLL

BCDL

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

10.0

10.0

0.0

BRACING-

Vert(CT)

Horz(CT)

TOP CHORD **BOT CHORD**

n/a

n/a

0.00

Structural wood sheathing directly applied or 2-8-10 oc purlins.

Weight: 7 lb

FT = 25%

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

999

n/a

n/a

n/a

n/a

3

REACTIONS. (size) 1=2-7-8, 3=2-7-8

Max Horz 1=-14(LC 8)

Max Uplift 1=-4(LC 12), 3=-4(LC 13) Max Grav 1=69(LC 1), 3=69(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2021/TPI2014

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-P

0.02

0.00

- 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.

1.15

YES

- 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.





Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

₹

This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

4 × 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



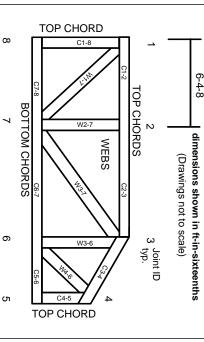
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only.

Industry Standards: ANSI/TPI1: National Design Specification for Metal

DSB-22:

Plate Connected Wood Truss Construction.
Design Standard for Bracing.
Building Component Safety Information,
Guide to Good Practice for Handling,
Installing, Restraining & Bracing of Metal
Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MITOK



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

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

'n

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.