Plumbing Drop Notes

1. Plumbing drop locations shown are NOT exact.

2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.

3. Adjust spacing as needed not to exceed 19.2*oc U.O.N..

Dimension Notes

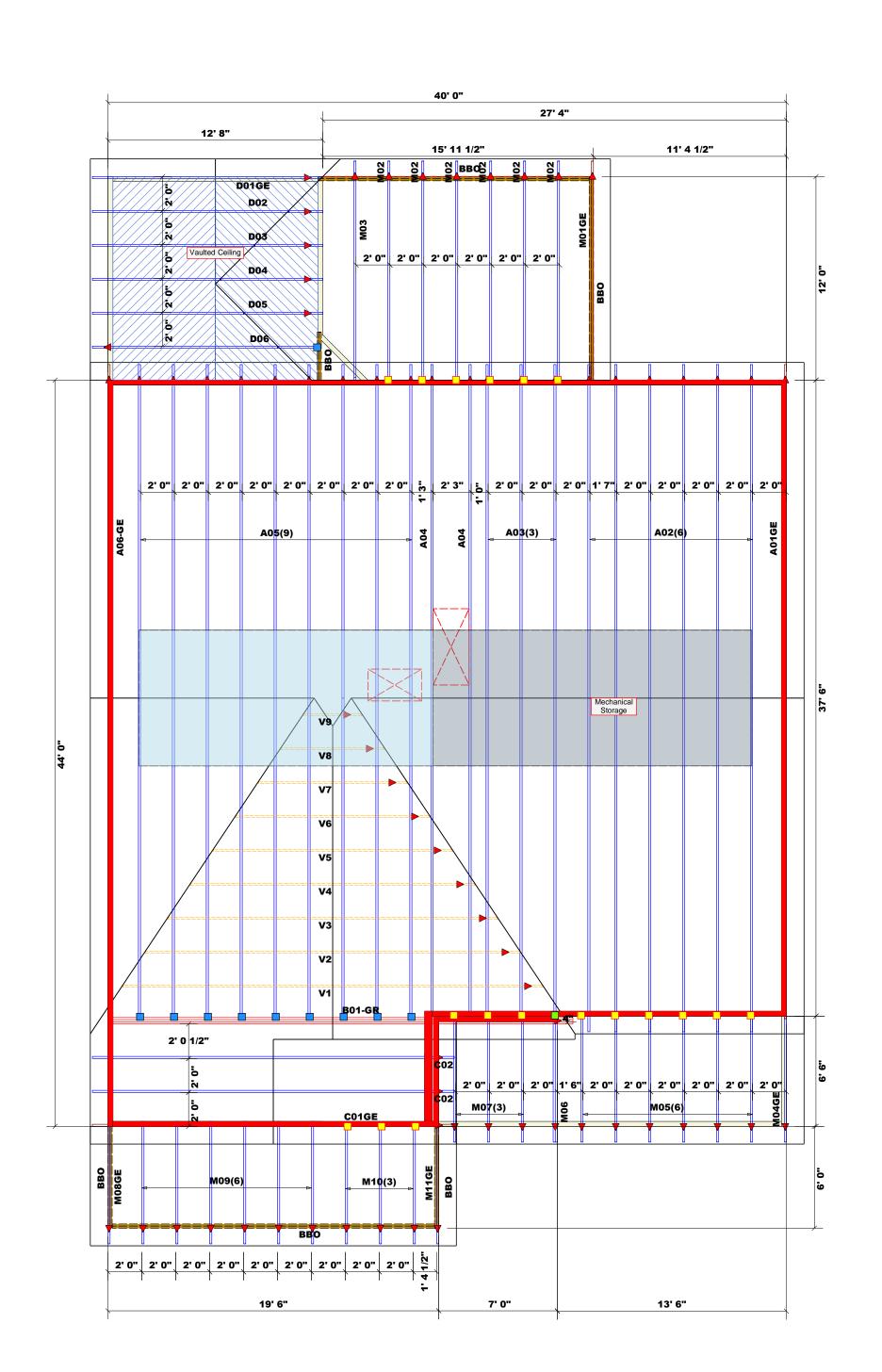
1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of stud unless noted otherwise
3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

All Walls Shown Are Considered Load Bearing

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

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

Nail Info	ormation	Co	onnec	ctor Infor	mation	
Truss	Header	Supported Member	Qty	Manuf	Product	Sym
10d/3"	10d/3"	NA	18	USP	JUS24	
16d/3-1/2"	16d/3-1/2"	NA	10	USP	HUS26	
10d/3"	16d/3-1/2"	NA	1	USP	THD26-2	



ROOF & FLOOR TRUSSES & BEAMS

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

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

Signature Johnnie Baggett

Johnnie Baggett

LOAD CHART FOR JACK STUDS

	(В	ASED O	N TABLE	5 R502.	5(1) & (l	o))	
NUA	MBER C		STUDS F HEADER/			A END O	F
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	PEO'N STUDS FOR
1700	1		2550	1		3400	
3400	2		5100	2		6800	
5100	3		7650	3		10200	,
6800	4		10200	4		13600	,
8500	5		12750	5		17000	,
10200	6		15300	6			
11900	7						
13600	8						
15300	9						
	Ī						_
	1						

	CITY / CO.	CITY / CO. Fuquay-Varina / Wake
	ADDRESS	8829 Melvin Street
v	MODEL	Roof
	DATE REV.	5/2/25
	DRAWN BY	DRAWN BY Johnnie Baggett
	SALES REP.	SALES REP. Johnnie Baggett

BUILDERNew Home IncJOB NAMELot 193 Ballard RoadPLANThe Apex - Traditional-- FaceSEAL DATESeal DateQUOTE #Quote #JOB #J0525-2418

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



Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0525-2418

Lot 193 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: I73193786 thru I73193820

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

North Carolina COA: C-0844



May 5,2025

Gilbert, Eric

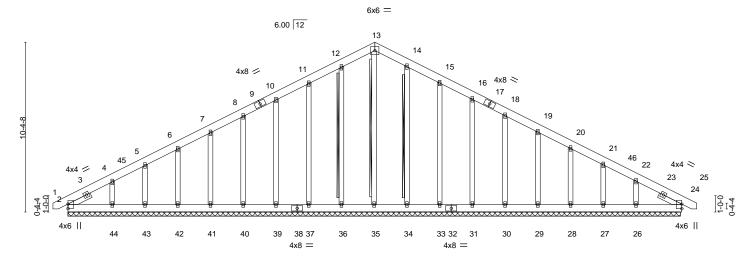
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 193 Ballard Road 173193786 J0525-2418 A01GE COMMON SUPPORTED GAB Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:44:59 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 18-9-0 37-6-0 18-9-0 18-9-0

Scale = 1:70.4



37-6-0 GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI I/d PLATES **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) 0.00 24 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.03 Vert(CT) 0.00 24 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.13 Horz(CT) 0.01 24 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-S Weight: 328 lb FT = 20%

37-6-0

LUMBER-

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

SLIDER Left 2x4 SP No.2 1-6-4, Right 2x4 SP No.2 1-6-4 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.

2x4 SPF No.2 - 13-35, 12-36, 14-34 T-Brace: Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS. All bearings 37-5-0.

(lb) -Max Horz 2=197(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 2, 36, 37, 39, 40, 41, 42, 43, 34, 33, 31, 30, 29, 28, 27 except

44=-160(LC 12), 26=-143(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 35, 36, 37, 39, 40, 41, 42, 43, 44, 34, 33, 31, 30, 29,

28, 27, 26, 24

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

2-4=-262/89, 10-11=-104/259, 11-12=-126/322, 12-13=-140/361, 13-14=-140/361, TOP CHORD

14-15=-127/323, 15-16=-105/260

NOTES-

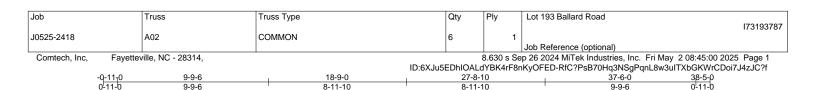
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 18-9-0, Corner(3R) 18-9-0 to 23-1-13, Exterior(2N) 23-1-13 to 38-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 36, 37, 39, 40, 41, 42, 43, 34, 33, 31, 30, 29, 28, 27 except (jt=lb) 44=160, 26=143.
- 9) Non Standard bearing condition. Review required.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



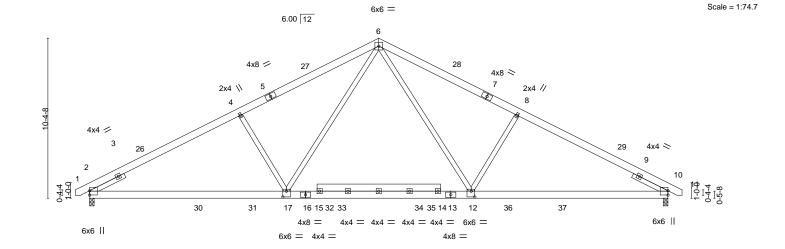
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)





8-11-10



	12-9-1	24-8-15	37-6-0
	12-9-1	11-11-13	12-9-1
Plate Offsets (X,Y)	[12:0-2-12,0-4-8], [17:0-2-12,0-4-8]		

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.26	DEFL. in (loc) Vert(LL) -0.18 12-24	I/defl L/d >999 360	PLATES GRIP MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.75	Vert(CT) -0.32 12-17	>999 240	W1120 244/130
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2021/TPI2014	WB 0.31 Matrix-AS	Horz(CT) 0.07 10 Wind(LL) 0.05 12-17	n/a n/a >999 240	Weight: 268 lb FT = 20%

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 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=-127(LC 10)

Max Grav 2=1936(LC 2), 10=1936(LC 2)

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

2-4=-3088/325, 4-6=-2892/356, 6-8=-2892/356, 8-10=-3088/325 TOP CHORD

BOT CHORD 2-17=-157/2734, 12-17=0/1897, 10-12=-155/2684

WFBS 6-12=-26/1224, 8-12=-490/315, 6-17=-26/1224, 4-17=-490/315

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-9-0, Exterior(2R) 18-9-0 to 23-1-13, Interior(1) 23-1-13 to 38-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 18-9-0 from left end, supported at two points, 5-0-0 apart. 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



9-9-6

Structural wood sheathing directly applied.

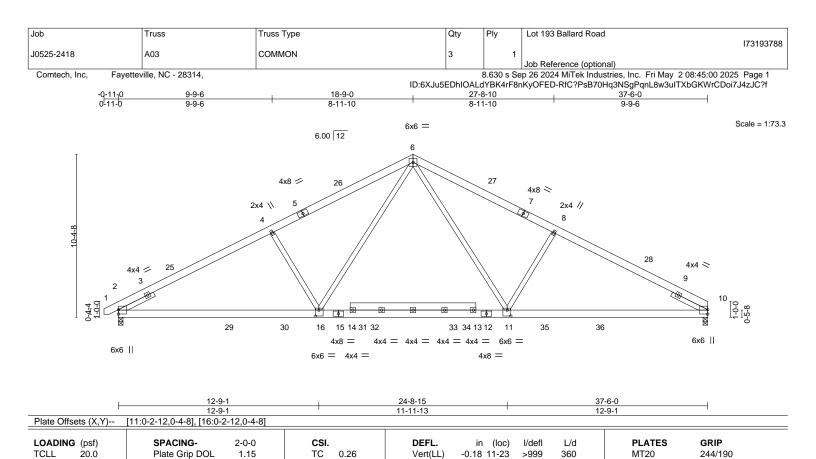
Rigid ceiling directly applied.

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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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)





Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.32 11-16

0.05 11-16

10

0.07

>999

>999

n/a

Rigid ceiling directly applied.

240

n/a

240

Structural wood sheathing directly applied.

Weight: 265 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

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

10.0

0.0

10.0

SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=128(LC 11)

Max Grav 2=1937(LC 2), 10=1898(LC 2)

Lumber DOL

Rep Stress Incr

Code IRC2021/TPI2014

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

TOP CHORD 2-4=-3089/325 4-6=-2893/356 6-8=-2894/362 8-10=-3090/332

BOT CHORD 2-16=-184/2730, 11-16=-13/1893, 10-11=-171/2686

WFBS 6-11=-27/1226, 8-11=-492/316, 6-16=-24/1225, 4-16=-490/316

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-9-0, Exterior(2R) 18-9-0 to 23-1-13, Interior(1) 23-1-13 to 37-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 18-8-8 from left end, supported at two points, 5-0-0 apart. 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

BC

WB

Matrix-AS

0.76

0.32

- 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) 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.

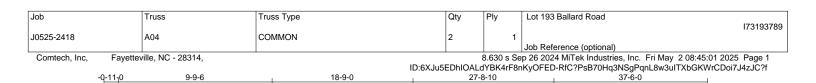


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

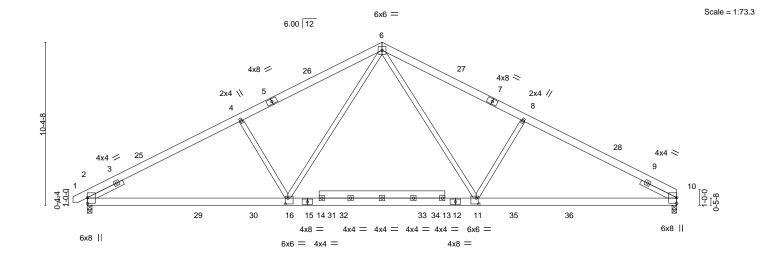
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8-11-10



	12-9-1	24-8-15	37-6-0
	12-9-1	11-11-13	12-9-1
Plate Offsets (X,Y)	[11:0-2-0,0-4-8], [16:0-2-0,0-4-8]		

LOADING	G (psf)	SPACING- 2-3-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.20 11-23 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -0.35 11-16 >999 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.36	Horz(CT) 0.08 10 n/a n/a	
BCDL	10.0	Code IRC2021/TPI2014	Matrix-MS	Wind(LL) 0.06 11-16 >999 240	Weight: 265 lb FT = 20%

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 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

REACTIONS.

(size) 2=0-3-8, 10=0-3-8 Max Horz 2=144(LC 11) Max Uplift 2=-12(LC 12), 10=-1(LC 13) Max Grav 2=2167(LC 2), 10=2123(LC 2)

9-9-6

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

TOP CHORD 2-4=-3455/394. 4-6=-3233/429. 6-8=-3234/436. 8-10=-3455/402

BOT CHORD 2-16=-232/3055, 11-16=-27/2104, 10-11=-217/3006

WEBS 6-11=-50/1380, 8-11=-566/360, 6-16=-48/1379, 4-16=-565/360

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-9-0, Exterior(2R) 18-9-0 to 23-1-13, Interior(1) 23-1-13 to 37-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 18-8-8 from left end, supported at two points, 5-0-0 apart.
- 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) 2, 10.



Structural wood sheathing directly applied or 3-10-5 oc purlins.

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

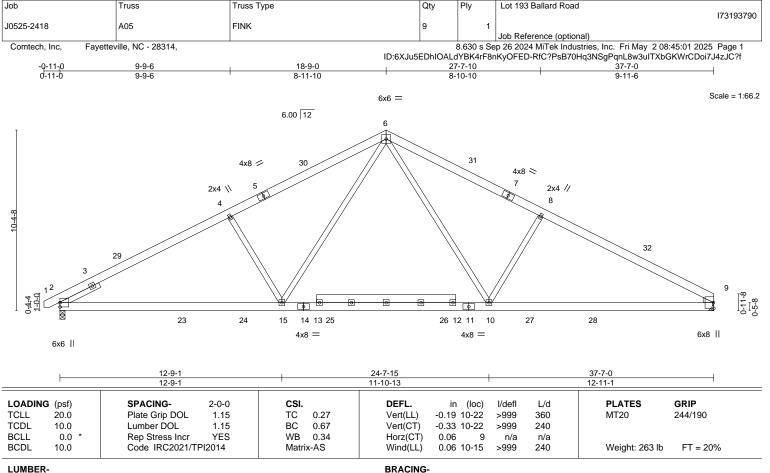


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TOP CHORD

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

WEDGE

Right: 2x4 SP No.2

SLIDER Left 2x4 SP No.2 2-6-0

REACTIONS.

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

Max Horz 2=129(LC 11)

Max Uplift 2=-100(LC 12), 9=-90(LC 13) Max Grav 2=1841(LC 2), 9=1803(LC 2)

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

 $2\text{-}4\text{=-}2886/538,\ 4\text{-}6\text{=-}2689/569,\ 6\text{-}8\text{=-}2699/576,\ 8\text{-}9\text{=-}2929/544}$ TOP CHORD

BOT CHORD 2-15=-367/2554, 10-15=-148/1765, 9-10=-354/2526

WEBS 6-10=-135/1141, 8-10=-523/304, 6-15=-133/1114, 4-15=-506/300

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-9-0, Exterior(2R) 18-9-0 to 23-1-13, Interior(1) 23-1-13 to 37-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 4x4 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) 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) 2, 9.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





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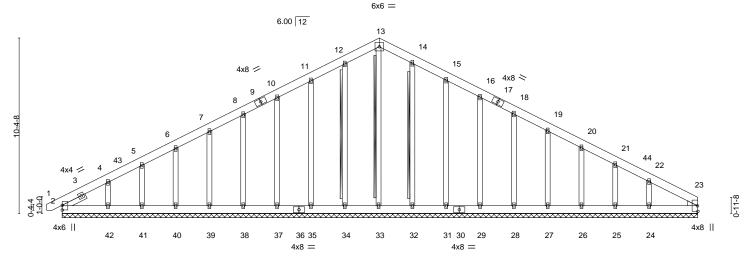


Job Truss Truss Type Qty Ply Lot 193 Ballard Road 173193791 J0525-2418 COMMON SUPPORTED GAB A06-GE Job Reference (optional) Comtech, Inc.

Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:02 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 18-9-0 18-9-0 18-10-0

Scale = 1:68.1



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 0.05 Vert(LL) -0.00 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.03 Vert(CT) 0.00 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.13 Horz(CT) 0.01 23 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-S Weight: 325 lb FT = 20%

37-7-0 37-7-0

LUMBER-

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

Right: 2x4 SP No.2

SLIDER Left 2x4 SP No.2 1-6-4 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.

2x4 SPF No.2 - 13-33, 12-34, 14-32 T-Brace: Fasten (2X) T and I braces to narrow edge of web with 10d

(0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS. All bearings 37-7-0.

Max Horz 2=-203(LC 17) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 34, 35, 37, 38, 39, 40, 41, 32, 31, 29, 28, 27, 26, 25 except

42=-160(LC 12), 24=-135(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 33, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27,

26, 25, 24, 23

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

TOP CHORD 2-4=-263/90, 10-11=-99/259, 11-12=-122/322, 12-13=-136/362, 13-14=-136/361,

14-15=-123/324, 15-16=-100/260

WEBS 22-24=-166/259

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 18-9-0, Corner(3R) 18-9-0 to 23-1-13, Exterior(2N) 23-1-13 to 37-7-0 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, 34, 35, 37, 38, 39, 40, 41, 32, 31, 29, 28, 27, 26, 25 except (it=lb) 42=160, 24=135.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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 193 Ballard Road 173193792 J0525-2418 **GABLE** B01-GR 3 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:03 2025 Page 1

ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 8-10-14 12-0-4 16-10-8 21-10-12 26-6-0 3-1-6 0-8-10 4-3-10 3-7-8 4-3-10

Scale = 1:67.4

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

7-14

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

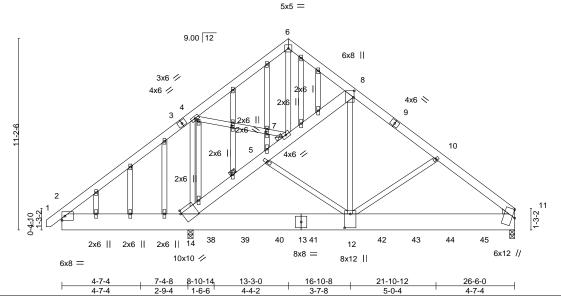


Plate Offsets (X,Y)--[4:0-1-8,0-1-0], [8:0-4-8,0-0-8], [11:Edge,0-1-15], [12:0-9-12,0-4-0], [14:0-0-13,0-2-4], [24:0-1-9,0-1-0], [27:0-1-9,0-1-0] LOADING (psf) SPACING-2-0-4 CSI. DEFL. I/defI **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) -0.07 12-37 >999 360 MT20 244/190 **TCDL** 10.0 Lumber DOL 1.15 BC 0.30 Vert(CT) -0.12 12-37 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.69 Horz(CT) 0.01 n/a 11 n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-MS Wind(LL) 0.04 12-37 >999 240 Weight: 1023 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

Except:

1 Row at midpt

1 Brace at Jt(s): 7

LUMBER-

2x6 SP No.1 *Except* TOP CHORD 8-14: 2x8 SP No.1

BOT CHORD 2x12 SP 2400F 2.0E 2x4 SP No.2 **WEBS**

OTHERS 2x4 SP No.2 WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 11=0-3-8, 14=0-3-10

Max Horz 14=313(LC 28)

Max Uplift 11=-581(LC 9), 14=-777(LC 8) Max Grav 11=8347(LC 24), 14=9635(LC 2)

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

TOP CHORD 2-4=-671/421, 4-6=-1215/193, 6-8=-1228/230, 8-10=-8069/604, 10-11=-8222/637,

5-14=-6370/516, 5-7=-6841/542, 7-8=-7221/647 **BOT CHORD** 14-34=-283/495, 12-14=-299/5171, 11-12=-418/6474

WEBS 4-14=-936/359, 4-7=-33/526, 6-7=-182/1265, 8-12=-475/8393, 10-12=-269/307,

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, 2x8 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x12 - 2 rows staggered at 0-4-0 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) gable end zone; cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=581, 14=777.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

May 5,2025



Job	Truss	Truss Type	Qty	Ply	Lot 193 Ballard Road
					I73193792
J0525-2418	B01-GR	GABLE	1	3	Joh Deference (entionel)

Comtech, Inc,

Fayetteville, NC - 28314,

Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:03 2025 Page 2 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1782 lb down and 110 lb up at 8-7-12, 1782 lb down and 110 lb up at 10-7-12, 1782 lb down and 110 lb up at 12-7-12, 1782 lb down and 110 lb up at 14-7-12, 1782 lb down and 110 lb up at 16-7-12, 1782 lb down and 110 lb up at 18-7-12 , 1782 lb down and 110 lb up at 20-7-12, and 1782 lb down and 110 lb up at 22-7-12, and 1782 lb down and 110 lb up at 24-7-12 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 Uniform Loads (plf)

Vert: 1-6=-61, 6-8=-61, 8-11=-61, 32-35=-20

Concentrated Loads (lb)

Vert: 12=-1483(B) 38=-1483(B) 39=-1483(B) 40=-1483(B) 41=-1483(B) 42=-1483(B) 43=-1483(B) 44=-1483(B) 45=-1483(B) 45=-1483(B)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 193 Ballard Road 173193793 J0525-2418 C01GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:04 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4x6 =

9-9-0

9-9-0

Scale = 1:50.8

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

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

19-6-0

9-9-0

10 9.00 12 6 11 5 26 12 4x4 / 4x4 🚿 13 15 3x10 || 3x10 || 24 23 22 21 16 20 19 18 17 4x6 =

Plate Offsets (X,Y)--[2:0-7-12,0-0-4], [8:0-3-0,Edge], [14:0-7-12,0-0-4] LOADING (psf) SPACING-2-0-0 DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) 0.00 14 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.06 Vert(CT) 0.00 14 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.20 Horz(CT) 0.00 14 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-S Weight: 173 lb FT = 20%

BOT CHORD

19-6-0 18-11-8

LUMBER-BRACING-TOP CHORD

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

SLIDER Left 2x6 SP No.1 1-9-5, Right 2x6 SP No.1 1-9-5

0-6-8 0-6-8

REACTIONS. All bearings 18-11-8.

(lb) -Max Horz 24=240(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 20, 17 except 22=-115(LC 12), 23=-139(LC 12), 24=-104(LC 12),

19=-121(LC 13), 16=-206(LC 13), 14=-145(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 21, 22, 23, 19, 17, 14 except 24=361(LC 1), 20=268(LC 21),

16=328(I C 20)

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

TOP CHORD 6-7=-107/271, 9-10=-107/277, 12-14=-232/325

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) -0-9-8 to 3-7-5, Exterior(2N) 3-7-5 to 9-9-0, Corner(3R) 9-9-0 to 14-1-13, Exterior(2N) 14-1-13 to 20-3-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 17 except (jt=lb) 22=115, 23=139, 24=104, 19=121, 16=206, 14=145.
- 9) Non Standard bearing condition. Review required.



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Job Truss Truss Type Qty Ply Lot 193 Ballard Road 173193794 J0525-2418 C02 KINGPOST 2 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:04 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 9-9-0 19-6-0 9-9-0 Scale = 1:50.8 6x6 = 3 9.00 12 4x4 < ⁵6 10 9 7 15 8 4x6 = 10x10 = 4x4 = 3x10 II 0-6-8 0-6-8 9-9-0 19-6-0 9-2-8 9-9-0 Plate Offsets (X,Y)--[10:0-5-0,0-9-0]

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

(loc)

8-13

8-13

8-13

5

-0.10

-0.15

-0.03

0.06

I/defI

>999

>999

>999

n/a

Rigid ceiling directly applied.

L/d

360

240

n/a

240

PLATES

Weight: 141 lb

MT20

Structural wood sheathing directly applied, except end verticals.

GRIP

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

20.0

10.0

0.0

10.0

2x4 SP No.2 *Except* WFBS 2-10: 2x6 SP No.1 **SLIDER** Right 2x6 SP No.1 2-6-0

REACTIONS.

(size) 5=0-3-8, 9=0-3-8 Max Horz 9=191(LC 11)

Max Uplift 5=-45(LC 13), 9=-49(LC 12) Max Grav 5=976(LC 20), 9=991(LC 19)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2021/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-975/211, 3-5=-821/207, 2-10=-832/262 **BOT CHORD** 9-10=-154/349, 8-9=-295/490, 5-8=0/689

WEBS 3-8=0/532, 2-8=-141/554

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-8 to 3-7-5, Interior(1) 3-7-5 to 9-9-0, Exterior(2R) 9-9-0 to 14-1-13, Interior(1) 14-1-13 to 20-3-8 zone:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

2-0-0

1.15

1.15

YES

CSI.

TC

BC

WB

Matrix-AS

0.32

0.38

0.22

- 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) 5, 9.
- 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.





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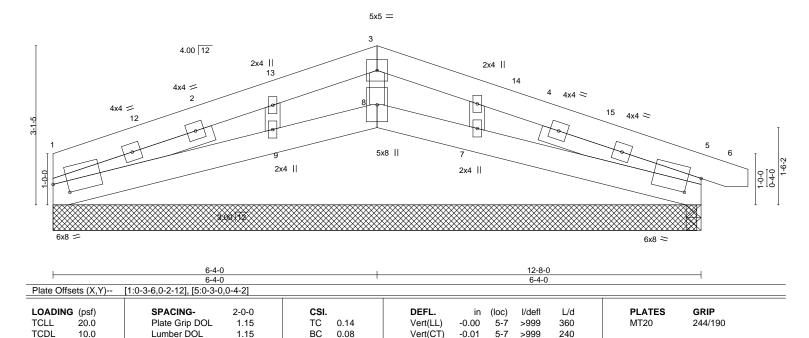


Qty 173193795 J0525-2418 D01GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:05 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 6-4-0 6-4-0 , 12-8-0 13-7-0 0-11-0

Ply

Lot 193 Ballard Road

Scale = 1:22.5



Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.00

0.00

5

5-7

n/a

>999

n/a

240

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

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

Weight: 77 lb

FT = 20%

LUMBER-

BCLL

BCDL

Job

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

BOT CHORD 2x4 SP No 2 WFBS

0.0

10.0

OTHERS 2x4 SP No.2

SLIDER Left 2x4 SP No.2 3-3-9, Right 2x4 SP No.2 3-3-9

Truss

Truss Type

REACTIONS. All bearings 12-7-0.

(lb) - Max Horz 1=61(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 8 except 1=-106(LC 8), 5=-157(LC 9)

YES

Max Grav All reactions 250 lb or less at joint(s) 8, 9, 7 except 1=258(LC 1), 5=311(LC 1), 5=311(LC 1)

WB

Matrix-S

0.01

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

TOP CHORD 1-3=-442/437, 3-5=-444/414

 $1\hbox{-}9\hbox{--}327/356,\ 8\hbox{-}9\hbox{--}316/338,\ 7\hbox{-}8\hbox{--}318/337,\ 5\hbox{-}7\hbox{--}324/356}$ **BOT CHORD**

Rep Stress Incr

Code IRC2021/TPI2014

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) 0-1-5 to 4-6-2, Interior(1) 4-6-2 to 6-4-0, Exterior(2R) 6-4-0 to 10-8-13, Interior(1) 10-8-13 to 13-4-5 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 studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 1=106, 5=157.



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Job Truss Truss Type Qty Ply Lot 193 Ballard Road 173193796 J0525-2418 D02 **ROOF SPECIAL** Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:05 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 6-4-0 12-8-0

Scale = 1:24.7

0-11-0

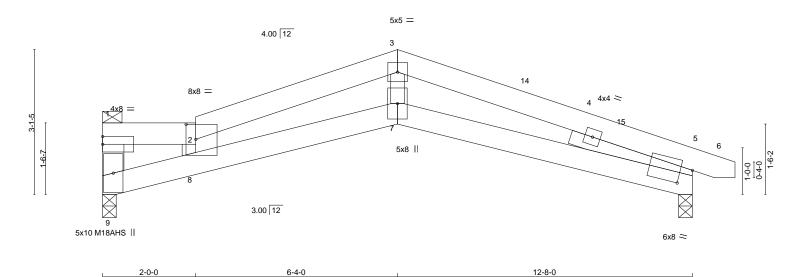


Plate Offsets (X,Y)	[2:0-2-8,0-3-14], [5:0-3-0,0-4-2]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.08 7 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.53	Vert(CT) -0.15 7 >972 240	M18AHS 186/179
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.07 5 n/a n/a	
BCDL 10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL) 0.08 7 >999 240	Weight: 72 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

6-4-0

2-0-0 oc purlins (6-0-0 max.): 1-2.

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except end verticals, and

LUMBER-

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

BOT CHORD 2x4 SP No.2 *Except* WFBS 1-9: 2x6 SP No.1

SLIDER Right 2x4 SP No.2 2-9-0

REACTIONS.

(size) 9=0-3-8, 5=0-3-8 Max Horz 9=-31(LC 17)

2-0-0

2-0-0

Max Uplift 9=-40(LC 8), 5=-64(LC 9) Max Grav 9=496(LC 1), 5=541(LC 1)

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

TOP CHORD 1-9=-346/150, 1-2=-1044/464, 2-3=-1217/619, 3-5=-1192/642

BOT CHORD 8-9=-411/974, 7-8=-524/1130, 5-7=-518/1128

WEBS 2-8=-320/276, 3-7=-184/559

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) 0-2-12 to 2-0-0, Interior(1) 2-0-0 to 6-4-0, Exterior(2R) 6-4-0 to 10-8-13, Interior(1) 10-8-13 to 13-4-5 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

4-4-0

- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 9, 5 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) 9, 5.
- 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 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/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)



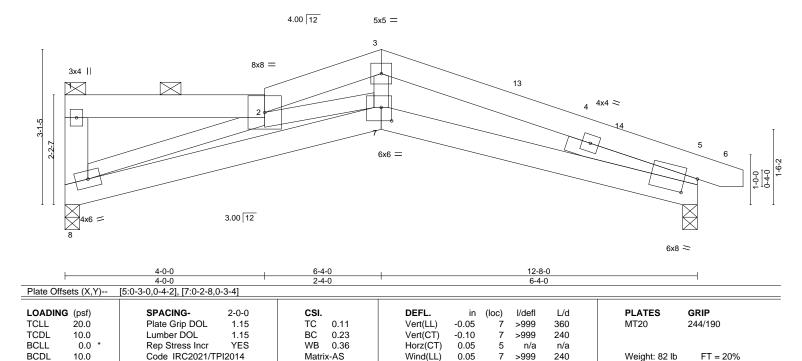
Qty 173193797 J0525-2418 D03 **ROOF SPECIAL** Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:06 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 6-4-0 12-8-0

Ply

Lot 193 Ballard Road

Scale = 1:23.1

0-11-0



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

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

2x4 SP No.2 *Except* **WEBS** 1-8: 2x6 SP No.1

SLIDER Right 2x4 SP No.2 2-9-0

REACTIONS.

(size) 8=0-3-8, 5=0-3-8 Max Horz 8=-58(LC 10)

Truss

4-0-0

Truss Type

2-4-0

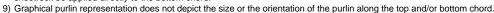
Max Uplift 8=-43(LC 8), 5=-62(LC 9) Max Grav 8=496(LC 1), 5=541(LC 1)

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

TOP CHORD 2-3=-1342/641, 3-5=-1357/614 **BOT CHORD** 7-8=-583/1283, 5-7=-497/1293 WEBS 3-7=-180/651, 2-8=-1239/636

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) 0-2-12 to 4-0-0, Interior(1) 4-0-0 to 6-4-0, Exterior(2R) 6-4-0 to 10-8-13, Interior(1) 10-8-13 to 13-4-5 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) Bearing at joint(s) 8, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 1-2.

Rigid ceiling directly applied.

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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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 193 Ballard Road 173193798 J0525-2418 D04 **ROOF SPECIAL** Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:06 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 6-0-0 6-0-0 12-8-0 0-11-0 4.00 12 Scale: 1/2"=1 5x8 = 3 1 4x8 = 4x4 > 2-10-7 6x6 = 3.00 12 3x4 II 6x8 = 6-4-0 6-4-0 6-4-0 Plate Offsets (X,Y)--[2:0-6-0,0-2-8], [5:0-3-0,0-4-2], [7:0-2-8,0-3-4]

LOADING TCLL	3 (psf) 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.25	DEFL. Vert(LL)	in -0.06	(loc)	l/defl >999	L/d 360	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.25	Vert(CT)	-0.12	7	>999	240	WITZO	244/100
BCLL BCDL	0.0 * 10.0	Rep Stress Incr YES Code IRC2021/TPI2014	WB 0.38 Matrix-AS	Horz(CT) Wind(LL)	0.06 0.06	7	n/a >999	n/a 240	Weight: 83 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

WFBS 2x4 SP No.2 *Except* 1-8: 2x6 SP No.1

SLIDER Right 2x4 SP No.2 2-9-0

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

Max Horz 8=-90(LC 10)

Max Uplift 8=-48(LC 8), 5=-59(LC 9) Max Grav 8=496(LC 1), 5=541(LC 1)

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

TOP CHORD 1-8=-426/252, 1-2=-1301/615, 2-3=-1104/502, 3-5=-1393/598

BOT CHORD 5-7=-484/1332

WEBS 1-7=-596/1158, 3-7=0/274

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) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 6-4-0, Exterior(2R) 6-4-0 to 10-8-13, Interior(1) 10-8-13 to 13-4-5 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) Bearing at joint(s) 8, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 1-2.

Rigid ceiling directly applied.

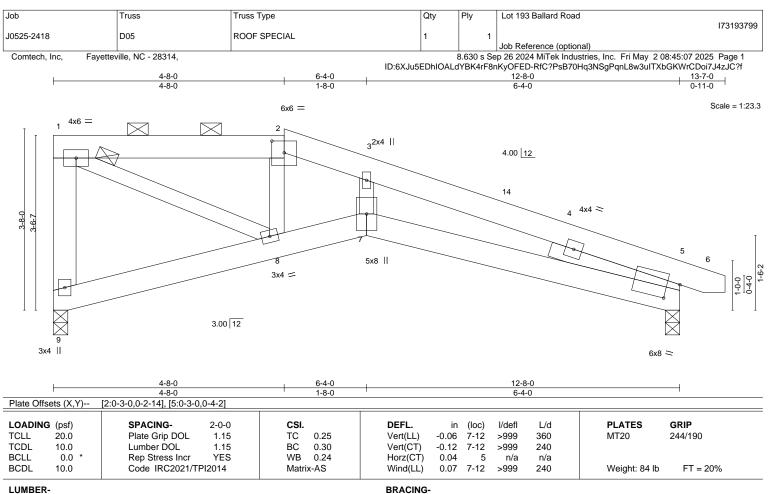
May 5,2025

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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TOP CHORD

BOT CHORD

LUMBER-

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

WFBS 2x4 SP No.2 *Except* 1-9: 2x6 SP No.1 **SLIDER** Right 2x4 SP No.2 2-9-0

REACTIONS.

(size) 9=0-3-8, 5=0-3-8 Max Horz 9=-117(LC 10)

Max Uplift 9=-57(LC 9), 5=-75(LC 9) Max Grav 9=496(LC 1), 5=541(LC 1)

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

TOP CHORD 1-9=-507/300, 1-2=-879/426, 2-3=-862/416, 3-5=-991/415

BOT CHORD 7-8=-276/868, 5-7=-298/924 WEBS 1-8=-497/961, 2-8=-262/219

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) 0-2-12 to 4-8-0, Exterior(2R) 4-8-0 to 9-0-13, Interior(1) 9-0-13 to 13-4-5 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) Bearing at joint(s) 9, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 5.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 1-2.

Rigid ceiling directly applied.

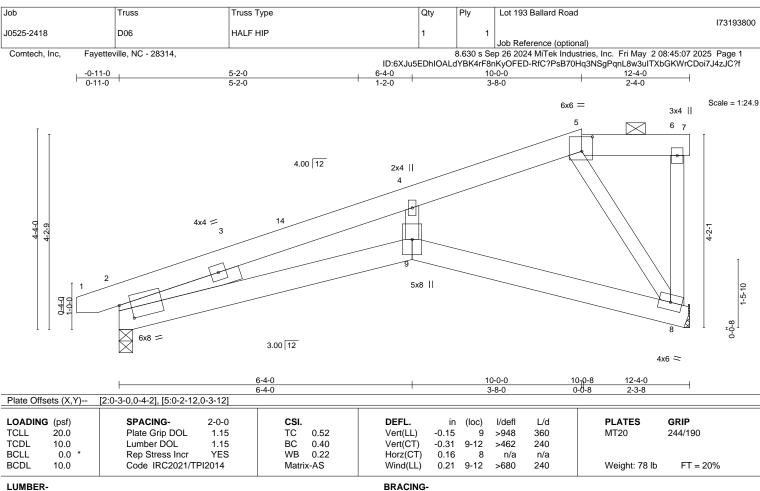
May 5,2025

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TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No 2 WFBS

SLIDER Left 2x4 SP No.2 2-9-0

REACTIONS.

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

Max Horz 2=116(LC 8)

Max Uplift 2=-58(LC 8), 8=-71(LC 8)

Max Grav 2=526(LC 1), 8=487(LC 25)

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

TOP CHORD 2-4=-484/194, 4-5=-339/197 **BOT CHORD** 2-9=-303/416, 8-9=-290/399 **WEBS** 4-9=-42/312, 5-8=-729/551

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) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 10-0-0, Exterior(2E) 10-0-0 to 12-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 2 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) 2, 8.
- 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.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 5-7.

Rigid ceiling directly applied.



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Job Truss Truss Type Qty Ply Lot 193 Ballard Road 173193801 J0525-2418 M01GE MONOPITCH SUPPORTED Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

-0-11-0 0-11-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:08 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:28.0

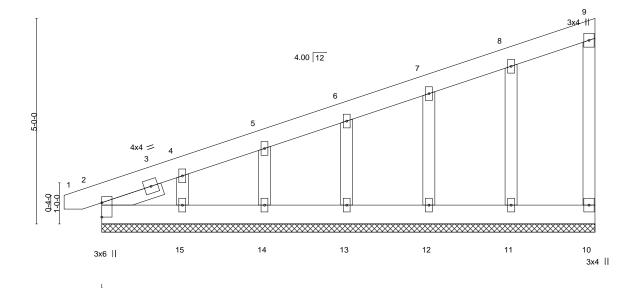


Plate Offs	sets (X,Y)	[2:Edge,0-0-0]										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2021/TP	12014	Matri	x-S						Weight: 84 lb	FT = 20%

TOP CHORD

BOT CHORD

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 2x4 SP No.2 1-6-6

REACTIONS. All bearings 12-0-0. (lb) - Max Horz 2=198(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 10, 11, 12, 13, 14 except 15=-118(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 10, 2, 11, 12, 13, 14, 15

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

2-4=-372/105, 4-5=-259/76 TOP CHORD

WEBS 4-15=-124/257

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 Corner(3E) -0-8-5 to 3-11-8, Exterior(2N) 3-11-8 to 11-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 11, 12, 13, 14 except (jt=lb) 15=118.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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

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

except end verticals.

May 5,2025





Job Truss Truss Type Qty Ply Lot 193 Ballard Road 173193802 J0525-2418 M02 MONOPITCH 6 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:08 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 5-11-12 12-0-0 12₇0-8 0-0-8 5-11-12 6-0-4 Scale = 1:28.7 5 6 3x4 H 4.00 12 3x4 = 4x4 = 3 16 9 6x6 = 72x4 || 3x6 || 12-0-0 5-11-12 6-0-4 Plate Offsets (X,Y)--[2:Edge,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) 0.03 8-9 >999 240 MT20 244/190 TCDL Vert(CT) 10.0 Lumber DOL 1.15 BC 0.12 -0.02 8-9 >999 240 WB 0.43 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) -0.01 8 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

SLIDER Left 2x4 SP No.2 2-6-0

REACTIONS.

(size) 2=0-3-0, 8=Mechanical Max Horz 2=141(LC 8) Max Uplift 2=-179(LC 8), 8=-209(LC 8) Max Grav 2=512(LC 1), 8=479(LC 1)

Code IRC2021/TPI2014

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

TOP CHORD 2-4=-648/785

BOT CHORD 2-9=-890/614. 8-9=-890/614 **WEBS** 4-9=-389/240, 4-8=-654/946

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) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 12-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=179, 8=209.
- 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.



Weight: 82 lb

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

FT = 20%

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 193 Ballard Road 173193803 J0525-2418 M03 MONOPITCH Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:09 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 12-0-0 12₋0-8 0-0-8 5-11-12 5-11-12 6-0-4 Scale = 1:27.7 3x4 || 4.00 12 15 3x4 = 1 4x4 = 3 7 16 17 9 2x4 || 3x6 || 6x6 = 12-0-0 5-11-12 Plate Offsets (X,Y)--[2:Edge,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.12 Vert(LL) 0.03 8-9 >999 240 MT20 244/190 TCDL Vert(CT) -0.02 10.0 Lumber DOL 1.15 BC 0.10 9-12 >999 240 WB 0.36 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) -0.01 8 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-AS Weight: 80 lb FT = 20%

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 2x4 SP No.2 2-6-0

REACTIONS.

(size) 2=0-3-0, 8=0-3-9 Max Horz 2=140(LC 8) Max Uplift 2=-172(LC 8), 8=-206(LC 8) Max Grav 2=494(LC 1), 8=504(LC 1)

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

TOP CHORD 2-4=-600/719

BOT CHORD 2-9=-834/569, 8-9=-834/569 **WEBS** 4-9=-381/231, 4-8=-615/904

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) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 12-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=172, 8=206.
- 5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



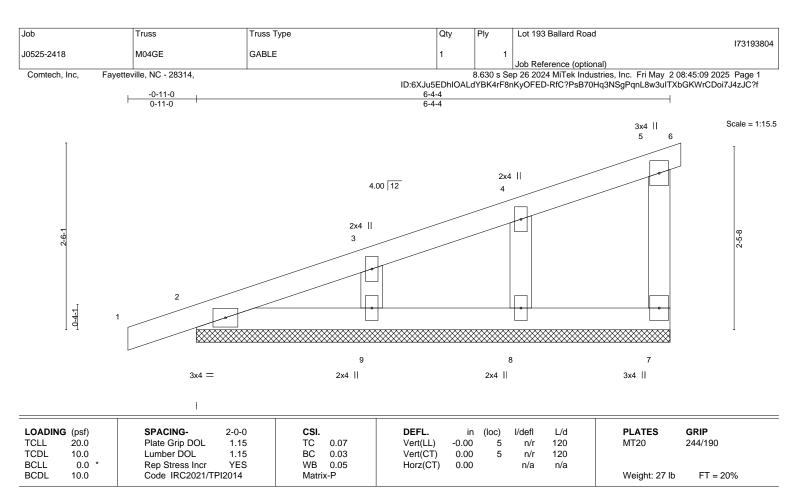
Structural wood sheathing directly applied, except end verticals.

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.

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)





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

OTHERS

REACTIONS.

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

(lb) -

2x4 SP No.2 All bearings 6-4-4.

Max Horz 2=119(LC 8) Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 9, 8 Max Grav All reactions 250 lb or less at joint(s) 7, 2, 9, 8

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

WEBS 3-9=-140/256

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 Corner(3E) -0-11-0 to 3-5-13, Exterior(2N) 3-5-13 to 6-6-0 zone; end vertical 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 requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 9, 8.



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

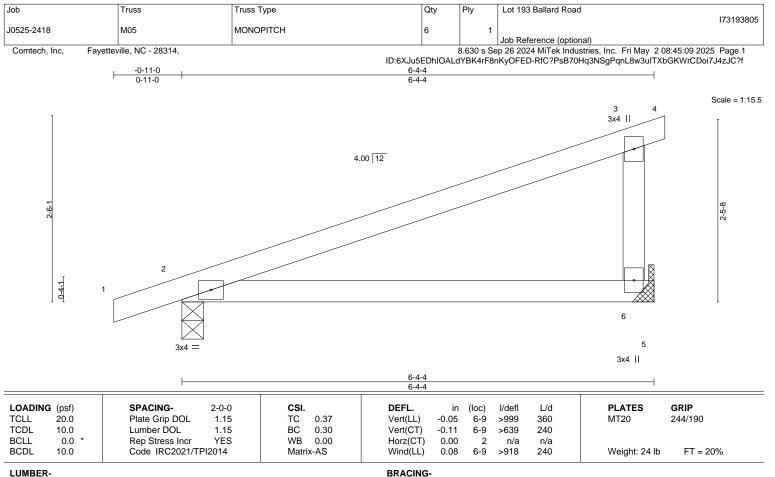
Rigid ceiling directly applied or 10-0-0 oc bracing.

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.

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)





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

WFBS

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

(size) 6=Mechanical, 2=0-3-8

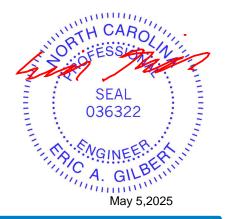
Max Horz 2=84(LC 8)

Max Uplift 6=-40(LC 12), 2=-49(LC 8) Max Grav 6=271(LC 1), 2=302(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 6-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
- 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.

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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Job Truss Truss Type Qty Ply Lot 193 Ballard Road 173193806 J0525-2418 M06 Monopitch 2 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:10 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 Scale = 1:15.3 4.00 12 0-10-8 0-4-1 8 3x4 || 2x4 II 3x4 =6-2-0 6-2-0

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.04	8-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.09	8-11	>822	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2021/TP	I2014	Matri	x-MP	Wind(LL)	0.07	8-11	>999	240	Weight: 49 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 WFBS

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

Max Horz 2=81(LC 8)

Max Uplift 2=-53(LC 8), 7=-67(LC 12) Max Grav 2=325(LC 1), 7=579(LC 1)

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

TOP CHORD 6-8=-533/470

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x4 1 row at 0-9-0 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) and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 6-2-0 zone; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 9) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-4=-20, 7-9=-20, 5-6=-20

Concentrated Loads (lb) Vert: 6=-360

May 5,2025

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

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

except end verticals. Except:

6-0-0 oc bracing: 3-6



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 193 Ballard Road 173193807 J0525-2418 M07 Monopitch 3 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:10 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 Scale = 1:15.3 4.00 12 0-10-8 0-4-1 8 3x6 || 3x4 = 2x4 II 6-2-0 6-2-0 DEFL. **PLATES** GRIP LOADING (psf) SPACING-2-0-0 CSI. (loc) I/defl L/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.50 Vert(LL) -0.08 8-11 >923 360 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.50 Vert(CT) -0.18 8-11 >411 240 WB 0.00 **BCLL** 0.0 Rep Stress Incr NO Horz(CT) 0.00 2 n/a n/a Code IRC2021/TPI2014 Wind(LL) BCDL 10.0 Matrix-MP 0.14 8-11 >532 Weight: 25 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 WFBS

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

Max Horz 2=81(LC 8)

Max Uplift 2=-53(LC 8), 7=-67(LC 12) Max Grav 2=325(LC 1), 7=579(LC 1)

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

TOP CHORD 6-8=-533/469

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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 6-2-0 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.
- 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) 2, 7.
- 7) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-4=-20, 7-9=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 6=-360



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

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

except end verticals. Except:

6-0-0 oc bracing: 3-6

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 193 Ballard Road 173193808 J0525-2418 M08GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:11 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 Scale: 3/4"=1" 3 3x4 2x4 II 4.00 12 0-4-1 2x4 || 8 3x6 | 3x4 2x4 6-0-0 6-3-8 6-0-0 Plate Offsets (X Y)-- [2:0-1-3 Edge]

Tiate Offsets (X,T)== [2.0-1-3,Euge]												
LOADING (p	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20	0.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.09	8-13	>814	360	MT20	244/190
TCDL 10	0.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.20	8-13	>367	240		
	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10	0.0	Code IRC2021/TPI2014		Matrix-MP		Wind(LL)	0.23	8-13	>325	240	Weight: 26 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

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

REACTIONS. (size) 2=0-3-0, 7=0-3-8 Max Horz 2=112(LC 8)

Max Uplift 2=-112(LC 8), 7=-185(LC 12) Max Grav 2=333(LC 1), 7=627(LC 1)

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

TOP CHORD 6-8=-599/793, 3-6=-170/313

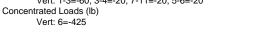
NOTES-

- 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) -0-11-0 to 3-5-13, Exterior(2N) 3-5-13 to 6-0-0 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 studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=112, 7=185.
- 8) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-4=-20, 7-11=-20, 5-6=-20





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

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

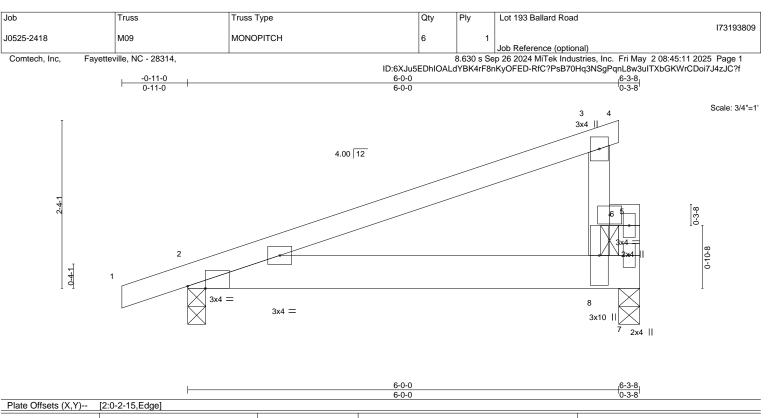
except end verticals. Except:

6-0-0 oc bracing: 3-6



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)





LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.33 Vert(LL) -0.03 8-10 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.49 Vert(CT) -0.07 8-10 >999 240 WB **BCLL** 0.0 Rep Stress Incr NO 0.01 Horz(CT) -0.00 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-MP Wind(LL) 8-10 >586 240 Weight: 29 lb FT = 20% 0.12

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1

BOT CHORD 2x4 SP No.1 *Except*

2-7: 2x6 SP No.1

WFBS 2x4 SP No.2

REACTIONS. (size) 2=0-3-0, 7=0-3-8

Max Horz 2=80(LC 8)

Max Uplift 2=-136(LC 8), 7=-260(LC 8) Max Grav 2=336(LC 1), 7=597(LC 1)

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

TOP CHORD 6-8=-537/997

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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 6-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) except (jt=lb) 2=136, 7=260.
- 6) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-20, 2-7=-20, 5-6=-20

Concentrated Loads (lb) Vert: 6=-400(F)

036322 May 5,2025

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

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

except end verticals. Except:

6-0-0 oc bracing: 3-6

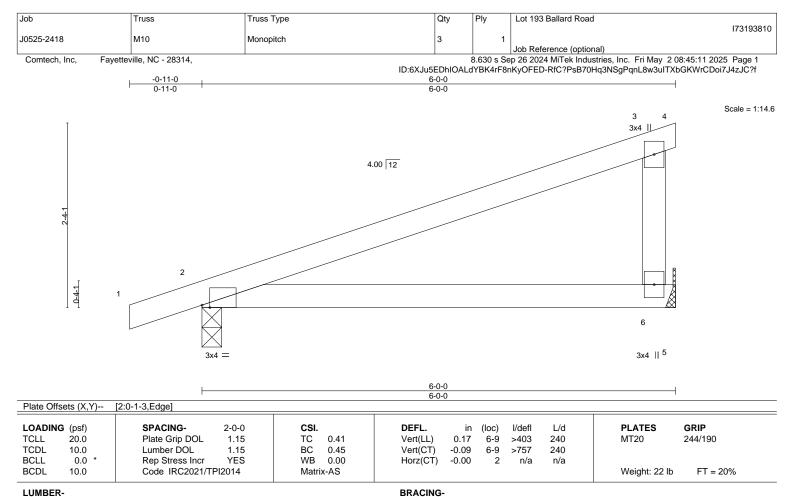


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

WFBS

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

REACTIONS. (size) 6=Mechanical, 2=0-3-0

Max Horz 2=79(LC 8)

Max Uplift 6=-98(LC 8), 2=-113(LC 8) Max Grav 6=236(LC 1), 2=288(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 6-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=113.
- 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.

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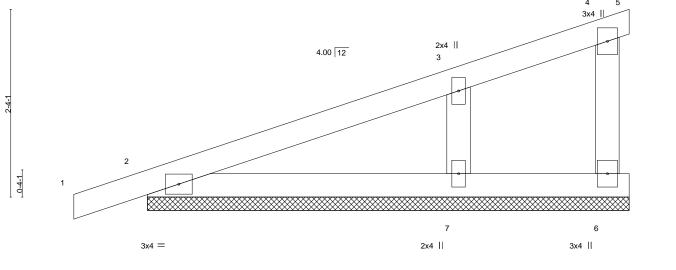
Job Truss Truss Type Qty Ply Lot 193 Ballard Road 173193811 J0525-2418 M11GE **GABLE** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

> -0-11-0 0-11-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:12 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:14.3



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matri	x-P						Weight: 24 lb	FT = 20%

LUMBER-

BRACING-

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

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

except end verticals.

2x4 SP No.2 OTHERS

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

REACTIONS. All bearings 6-0-0.

(lb) -Max Horz 2=112(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 2 except 7=-109(LC 12) Max Grav All reactions 250 lb or less at joint(s) 5, 6, 2 except 7=310(LC 1)

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

WEBS 3-7=-230/450

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 Corner(3E) -0-11-0 to 3-5-13, Exterior(2N) 3-5-13 to 6-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 2 except (jt=lb) 7=109.



May 5,2025

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Job Truss Truss Type Qty Ply Lot 193 Ballard Road 173193812 J0525-2418 V1 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:12 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 12-4-14 12-4-14 Scale = 1:55.8 4x4 =

9-3-10		30 14		4		5 15		6 7		9-0-0
	3x4 //	3 16	12	11	10 3x4 =	9	17	8 3x	4 📏	

24-9-3 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 0.14 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 ВС 0.16 Vert(CT) n/a n/a 999 **BCLL** WB 0.17 0.0 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-S Weight: 119 lb FT = 20%

24-9-11

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 4-11

REACTIONS. All bearings 24-8-6.

Max Horz 1=215(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 12=-115(LC 12), 13=-119(LC 12), 9=-114(LC 13),

8=-120(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=438(LC 22), 12=539(LC 19), 13=480(LC 19), 9=537(LC 20), 8=484(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **WEBS** 3-12=-282/220, 2-13=-290/194, 5-9=-280/219, 6-8=-291/195

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 12-4-14, Exterior(2R) 12-4-14 to 16-9-10, Interior(1) 16-9-10 to 24-4-6 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) 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) 12=115, 13=119, 9=114, 8=120.
- 7) Non Standard bearing condition. Review required.



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Job Truss Truss Type Qty Ply Lot 193 Ballard Road 173193813 J0525-2418 V2 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:13 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 11-0-14 11-0-14 11-0-13 Scale = 1:49.9 4x4 = 9.00 12 5 3 15 9-0-0 9-0-0 3x4 N 3x4 / 13 12 10 8 3x4 =22-1-11 22-1-3

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 0.15 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.18 Vert(CT) n/a n/a 999 WB 0.18 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a

LUMBER-

BCDL

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

10.0

BRACING-

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

Weight: 103 lb

FT = 20%

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

REACTIONS. All bearings 22-0-6.

Max Horz 1=191(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 8 except 12=-121(LC 12), 9=-120(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=440(LC 22), 12=496(LC 19), 13=361(LC 19),

Matrix-S

9=494(LC 20), 8=363(LC 20)

Code IRC2021/TPI2014

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

WEBS 3-12=-295/229, 5-9=-293/228

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 11-0-14, Exterior(2R) 11-0-14 to 15-5-10, Interior(1) 15-5-10 to 21-8-6 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) 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, 13, 8 except (it=lb) 12=121, 9=120.
- 7) Non Standard bearing condition. Review required.



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Job Truss Truss Type Qty Ply Lot 193 Ballard Road 173193814 J0525-2418 V3 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:13 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 9-8-14 9-8-14 9-8-13 Scale = 1:44.0 4x4 = 4 9.00 12 5 15 14 7-3-10 9-0-0 3x4 / 3x4 × 10 9 13 12 11 8 3x4 =19-5-11 19-5-3 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 0.16 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.18 Vert(CT) n/a n/a 999

BCLL 0.0 BCDL 10.0

Rep Stress Incr YES Code IRC2021/TPI2014

WB 0.13 Matrix-S

Horz(CT) 0.00 n/a n/a

Weight: 87 lb

FT = 20%

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 19-4-6.

Max Horz 1=-167(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 8 except 12=-123(LC 12), 10=-122(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=429(LC 22), 12=502(LC 19), 13=321(LC 19), 10=500(LC 20), 8=321(LC 20)

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

WEBS 3-12=-298/231, 5-10=-296/230

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 9-8-14, Exterior(2R) 9-8-14 to 14-1-10, Interior(1) 14-1-10 to 19-0-6 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) 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, 7, 13, 8 except (it=lb) 12=123, 10=122.
- 7) Non Standard bearing condition. Review required.



May 5,2025

Job Truss Truss Type Qty Ply Lot 193 Ballard Road 173193815 J0525-2418 V4 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:14 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 8-4-14 8-4-14 Scale = 1:39.9 4x4 = 3 9.00 12 2x4 | 2x4 II 4 11 10 3x4 / 3x4 × 9 7 6 12 8 13 3x4 = 2x4 || 2x4 || 2x4 || 0-0-8 0-0-8 16-9-11 16-9-3 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 0.17 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.16 Vert(CT) n/a n/a 999 WB 0.10 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 5 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-S Weight: 71 lb FT = 20%

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 16-8-6.

Max Horz 1=143(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-132(LC 12), 6=-132(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=403(LC 19), 9=505(LC 19), 6=506(LC 20)

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

WEBS 2-9=-315/246, 4-6=-315/246

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 8-4-14, Exterior(2R) 8-4-14 to 12-9-10, Interior(1) 12-9-10 to 16-4-6 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 except (jt=lb) 9=132, 6=132,
- 6) Non Standard bearing condition. Review required.



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Job Truss Truss Type Qty Ply Lot 193 Ballard Road 173193816 J0525-2418 V5 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:14 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-0-14 14-1-11 7-0-14 Scale: 3/8"=1" 4x4 = 3 9.00 12 2x4 || 2x4 || 4 10 5 3x4 🖊 3x4 × 8 7 6 2x4 || 2x4 || 2x4 || 14-1-3 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 0.13 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.09 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.07 Horz(CT) 0.00 5 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-S Weight: 58 lb FT = 20%

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 14-0-6.

Max Horz 1=-119(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-113(LC 12), 6=-112(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=343(LC 19), 6=343(LC 20)

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

WEBS 2-8=-269/247, 4-6=-268/246

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 7-0-14, Exterior(2R) 7-0-14 to 11-5-10, Interior(1) 11-5-10 to 13-8-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=113, 6=112,
- 6) Non Standard bearing condition. Review required.



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 193 Ballard Road 173193817 J0525-2418 V6 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:14 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 5-8-14 5-8-14 5-8-13 Scale = 1:26.4 4x4 = 9.00 12 2x4 || 4 2x4 || 7 3x4 / 3x4 ≫ 2x4 || 2x4 || 2x4 || 0-0-8 0-0-8 11-5-11 11-5-3 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 0.13 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.09 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.05 Horz(CT) 0.00 5 n/a n/a Code IRC2021/TPI2014 Weight: 44 lb BCDL 10.0 Matrix-S FT = 20%

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 11-4-6.

Max Horz 1=-95(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-111(LC 12), 6=-109(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=252(LC 1), 8=325(LC 19), 6=322(LC 20)

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

WEBS 2-8=-266/286, 4-6=-263/282

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 5-8-14, Exterior(2R) 5-8-14 to 10-1-10, Interior(1) 10-1-10 to 11-0-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=111, 6=109,
- 6) Non Standard bearing condition. Review required.



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)



173193818 J0525-2418 V7 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:15 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 4-4-14 4-4-14 Scale = 1:22.3 4x4 = 2 9.00 12 3 9-0-0 9-0-0 3x4 N 3x4 // 2x4 || 8-9-11 8-9-3 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 0.23 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.12 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: 32 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

Qty

Ply

Lot 193 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=8-8-6, 3=8-8-6, 4=8-8-6

Max Horz 1=-71(LC 8)

Truss

Truss Type

Max Uplift 1=-28(LC 12), 3=-34(LC 13)

Max Grav 1=177(LC 1), 3=178(LC 1), 4=278(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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.





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 193 Ballard Road 173193819 J0525-2418 V8 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 08:45:15 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 3-0-14 3-0-14 3-0-13 Scale: 3/4"=1' 4x4 = 2 9.00 12 3 9-0-0 9-0-0 2x4 || 3x4 ≫ 0-0-8 0-0-8 6-1-11 SPACING-LOADING (psf) 2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.12 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.05 Vert(CT) n/a n/a 999 **BCLL** WB 0.02 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-P Weight: 21 lb FT = 20%

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. (size) 1=6-0-6, 3=6-0-6, 4=6-0-6

Max Horz 1=47(LC 9)

Max Uplift 1=-18(LC 12), 3=-23(LC 13)

Max Grav 1=118(LC 1), 3=119(LC 1), 4=185(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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.

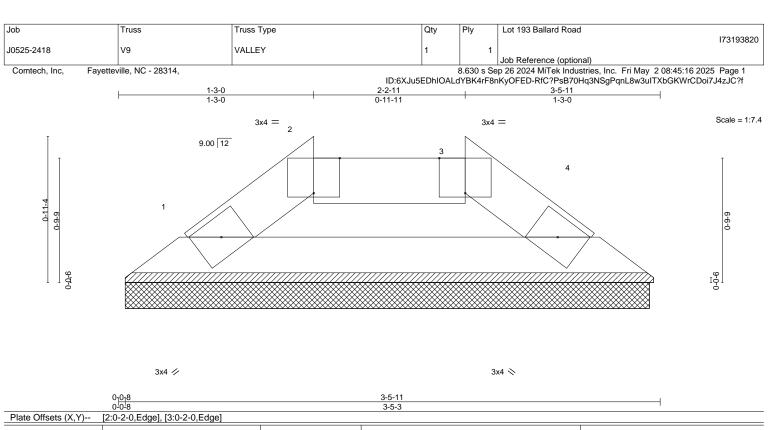


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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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)





LOADING (psf) SPACING-CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.02 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 0.0 WB 0.00 **BCLL** Rep Stress Incr YES Horz(CT) 0.00 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-R Weight: 10 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-5-11 oc purlins,

except

2-0-0 oc purlins: 2-3. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-4-6, 4=3-4-6

Max Horz 1=-13(LC 10)

Max Uplift 1=-3(LC 12), 4=-3(LC 13) Max Grav 1=104(LC 1), 4=104(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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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, 4.
- 7) Non Standard bearing condition. Review required.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or 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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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)



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

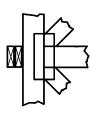
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

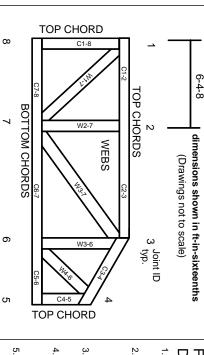
Industry Standards: ANSI/TPI1: National I

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.

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- 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

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise

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

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

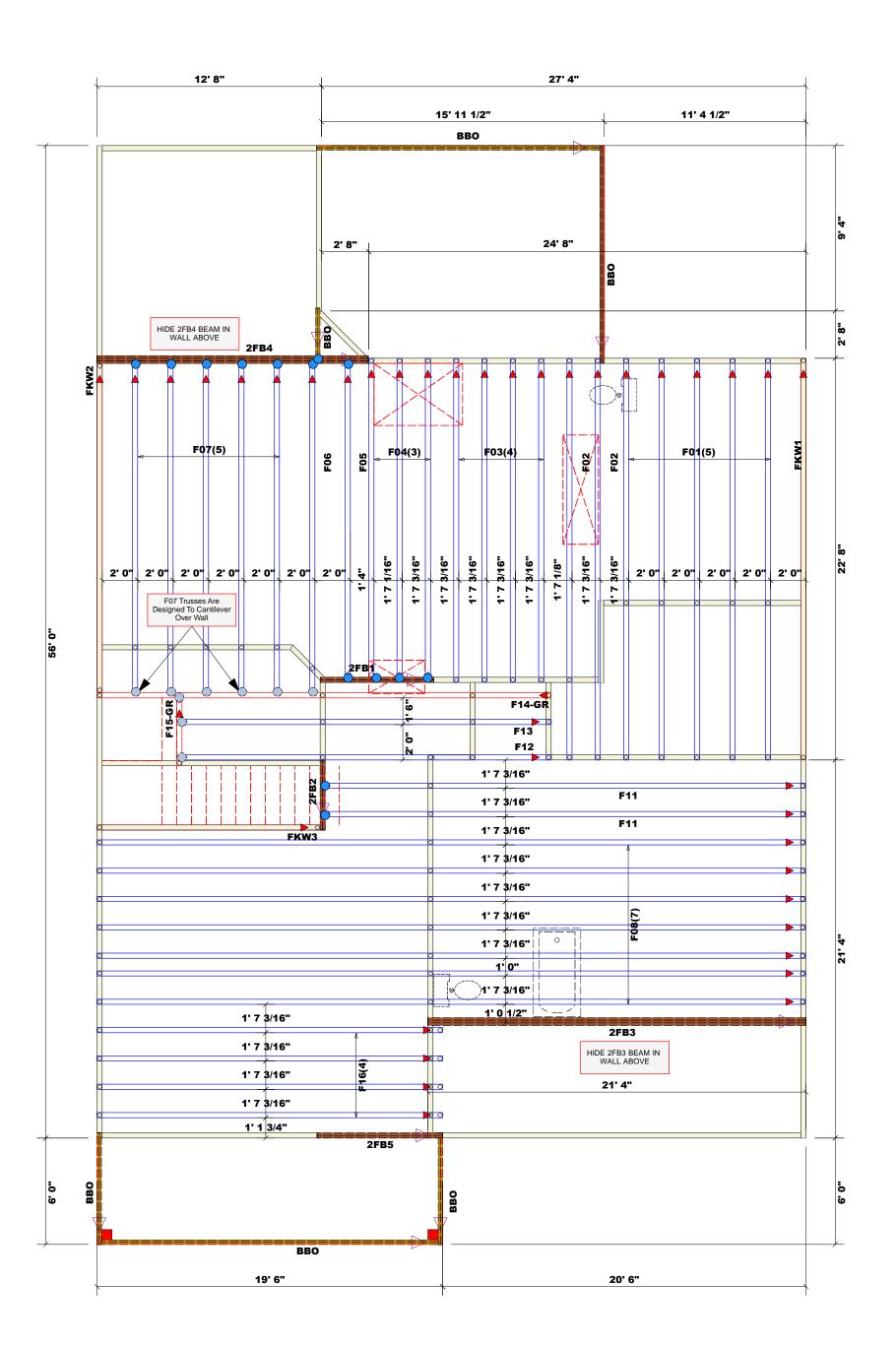
All Walls Shown Are Considered Load Bearing

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

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

		Products		
Net Qty	Plies	Product	Length	PlotID
2	2	1-3/4"x 14" LVL Kerto-S	8' 0"	2FB5
2	2	1-3/4"x 14" LVL Kerto-S	7' 0"	2FB1
2	2	1-3/4"x 14" LVL Kerto-S	4' 0"	2FB2
3	3	1-3/4"x 16" LVL Kerto-S	16' 0"	2FB4
3	3	1-3/4"x 23-7/8" LVL Kerto-S	22' 0"	2FB3
2	2	2x10 SPF No.2	16' 0"	BBO
2	2	2x10 SPF No.2	14' 0"	BBO

Nail Info	ormation	Co	nnec	tor Infor	mation	
Truss	Header	Supported Member	Qty	Manuf	Product	Syr
16d/3-1/2"	16d/3-1/2"	NA	14	USP	HUS410	
10d/3"	10d/3"	Varies	9	USP	MSH422	



ROOF & FLOOR TRUSSES & BEAMS

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

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

Signature Johnnie Baggett

Johnnie Baggett

.0.	OAD CHART FOR JACK STUDS								
	(BASED ON TABLES R502.5(1) & (b))								
NUI	MBER C		STUDS F			A END OF	=		
(UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END RE <i>AC</i> TION (UP TO)	REQ'D STUDS FOR		
\sim	4		SEEO	4		2400	4		

END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER	END REACTION	5
1700	1	2550	1	340	0
3400	2	5100	2	680	0
5100	3	7650	3	1020	00
6800	4	10200	4	1360	00
8500	5	12750	5	1700	00
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

CITY / CO.	CITY / CO. Fuquay-Varina / Wake
ADDRESS	Lot 193 Ballard Road
MODEL	2nd Floor
DATE REV.	5/2/25
DRAWN BY	DRAWN BY Johnnie Baggett
SALES REP.	SALES REP. Johnnie Baggett

New Home Inc
Lot 193 Ballard Road
The Apex - Traditional - Face
Seal Date
Quote #

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



Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0525-2420

Lot 193 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: I73194719 thru I73194735

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 193 Ballard Road
					173194719
J0525-2420	F01	FLOOR	5	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:33 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

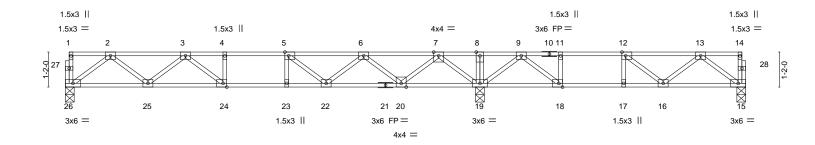
22-8-0

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 H 1-3-0 1-11-4 1-11-12 0-1-8 Scale = 1:38.4



· .	13-9-12	2		<u> </u>			8-10-4	·
Plate Offsets (X,Y)	[5:0-1-8,Edge], [12:0-1-8,Edge], [18:0-1	-8,Edge], [24:0-1-8,Edge]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.50	Vert(LL)	-0.11	23 >999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.62	Vert(CT)	-0.14	23 >999	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.42	Horz(CT)	0.03	15 n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S					Weight: 112 lb	FT = 20%F, 11%E

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) 26=0-3-8, 19=0-3-8, 15=0-3-8

Max Grav 26=695(LC 10), 19=1392(LC 1), 15=453(LC 4) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1365/0, 3-4=-2114/0, 4-5=-2114/0, 5-6=-1859/0, 6-7=-965/0, 7-8=0/999,

8-9=0/999, 9-11=-858/229, 11-12=-858/229, 12-13=-755/36

BOT CHORD 25-26=0/859, 24-25=0/1846, 23-24=0/2114, 22-23=0/2114, 20-22=0/1577, 19-20=-1/310,

18-19=-576/394, 17-18=-229/858, 16-17=-229/858, 15-16=0/559 $2-26 = -1075/0, \ 2-25 = 0/659, \ 3-25 = -627/0, \ 3-24 = 0/489, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 3-25 = -627/0, \ 3-24 = 0/489, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 3-25 = -627/0, \ 3-24 = 0/489, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 3-25 = -627/0, \ 3-24 = 0/489, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 7-19 = -1252/0, \ 7-20 = 0/885, \ 7-20$

WFBS

6-20=-837/0, 6-22=0/419, 5-22=-452/0, 9-19=-824/0, 9-18=0/811, 13-15=-700/0,

13-9-12

13-16=-96/254, 11-18=-357/0

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) 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



Job	Truss	Truss Type	Qty	Ply	Lot 193 Ballard Road
					173194720
J0525-2420	F02	FLOOR	2	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:34 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

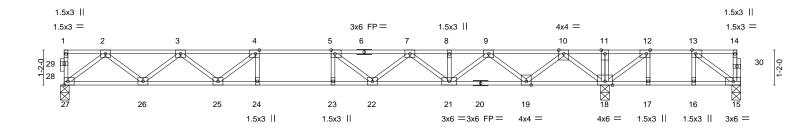
Structural wood sheathing directly applied or 6-0-0 oc purlins,

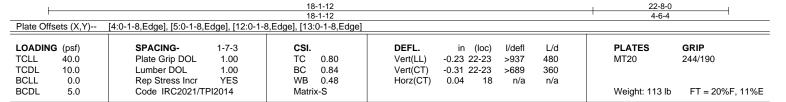
Rigid ceiling directly applied or 6-0-0 oc bracing

except end verticals.

0-1-8







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) 27=0-3-8, 15=0-3-8, 18=0-3-8

Max Uplift 15=-247(LC 3)

Max Grav 27=718(LC 10), 15=104(LC 4), 18=1358(LC 1)

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

TOP CHORD 2-3=-1464/0, 3-4=-2381/0, 4-5=-2768/0, 5-7=-2605/0, 7-8=-1913/0, 8-9=-1913/0,

9-10=-630/0, 10-11=0/1327, 11-12=0/1327, 12-13=-18/573 26-27=0/858, 25-26=0/2038, 24-25=0/2768, 23-24=0/2768, 22-23=0/2768, 21-22=0/2388,

BOT CHORD 19-21=0/1365, 17-18=-573/18, 16-17=-573/18, 15-16=-573/18 WEBS

2-27=-1095/0, 2-26=0/789, 3-26=-748/0, 3-25=0/469, 4-25=-611/0, 10-18=-1396/0,

10-19=0/1012, 9-19=-966/0, 9-21=0/707, 7-21=-613/0, 7-22=0/368, 5-22=-434/23,

13-15=-17/714, 12-18=-1053/0, 12-17=0/255

- 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 100 lb uplift at joint(s) except (jt=lb) 15=247.
- 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 193 Ballard Road
					I73194721
J0525-2420	F03	FLOOR	4	1	
					Job Reference (optional)

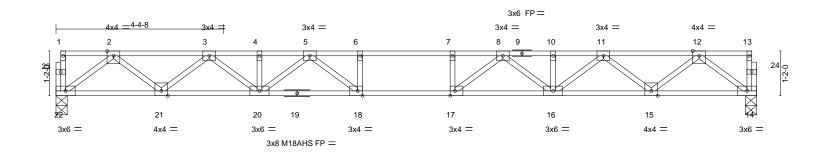
8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:34 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8



2-3-8

0-1-8 Scale = 1:30.1



			10-3-0	
Plate Offsets (X,Y)	[17:0-1-8,Edge], [18:0-1-8,Edge]			
	1	1		
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 0.52	Vert(LL) -0.25 17-18 >872 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.71	Vert(CT) -0.34 17-18 >633 360	M18AHS 186/179
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: 92 lb FT = 20%F, 11%E

18-3-8

LUMBER-

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

BOT CHORD

WFBS 2x4 SP No.3(flat)

BRACING-

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

except end verticals.

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

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

Max Grav 22=788(LC 1), 14=788(LC 1)

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

2-3=-1678/0, 3-4=-2810/0, 4-5=-2810/0, 5-6=-3391/0, 6-7=-3391/0, 7-8=-3391/0, TOP CHORD

8-10=-2810/0, 10-11=-2810/0, 11-12=-1678/0 21-22=0/992, 20-21=0/2337, 18-20=0/3156, 17-18=0/3391, 16-17=0/3156, 15-16=0/2337,

14-15=0/992 WFBS 2-22=-1242/0, 2-21=0/893, 3-21=-858/0, 3-20=0/605, 12-14=-1242/0, 12-15=0/893,

 $11-15 = -858/0, \ 11-16 = 0/605, \ 5-20 = -441/0, \ 5-18 = -34/578, \ 8-16 = -441/0, \ 8-17 = -34/578,$

7-17=-270/0, 6-18=-270/0

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





Job	Truss	Truss Type	Qty	Ply	Lot 193 Ballard Road
					173194722
J0525-2420	F04	FLOOR	3	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:35 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

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

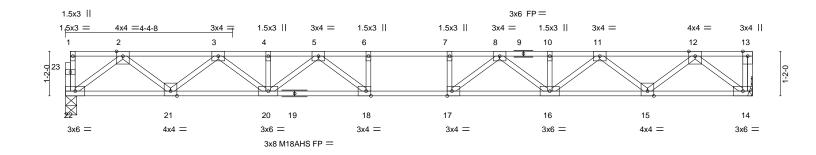
except end verticals.

0-1-8



2-0-0

Scale = 1:30.2



			18-0-0	
Plate Offsets (X,Y)	[17:0-1-8,Edge], [18:0-1-8,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) -0.23 17-18 >914 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.67	Vert(CT) -0.32 17-18 >665 360	M18AHS 186/179
BCLL 0.0	Rep Stress Incr YES	WB 0.42	Horz(CT) 0.06 14 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 92 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

BOT CHORD

WEBS 2x4 SP No.3(flat)

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

Max Grav 22=776(LC 1), 14=780(LC 1)

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

TOP CHORD 2-3=-1645/0, 3-4=-2746/0, 4-5=-2746/0, 5-6=-3288/0, 6-7=-3288/0, 7-8=-3288/0,

8-10=-2747/0, 10-11=-2747/0, 11-12=-1646/0

BOT CHORD 21-22=0/975, 20-21=0/2289, 18-20=0/3078, 17-18=0/3288, 16-17=0/3078, 15-16=0/2289, 14-15=0/975

WFBS 2-22=-1221/0, 2-21=0/873, 3-21=-838/0, 3-20=0/584, 5-20=-423/0, 5-18=-53/533,

 $12\text{-}14\text{=-}1224/0,\ 12\text{-}15\text{=}0/873,\ 11\text{-}15\text{=-}838/0,\ 11\text{-}16\text{=}0/584,\ 8\text{-}16\text{=-}423/0,\ 8\text{-}17\text{=-}53/533}$

NOTES-

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



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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 193 Ballard Road
					173194723
J0525-2420	F05	FLOOR	1	1	
					Llob Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:35 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-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.

1-3-0 1-8-8

Scale = 1:29.1

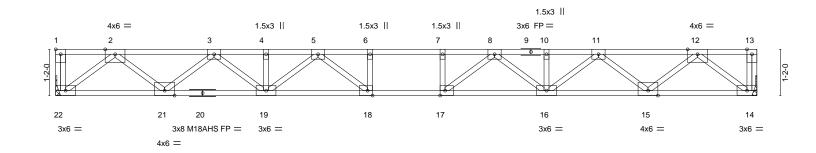


Plate Offsets (X,Y)	Plate Offsets (X,Y) [1:Edge,0-1-8], [17:0-1-8,Edge], [18:0-1-8,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP		
TCLL 40.0	Plate Grip DOL 1.00	TC 0.32	Vert(LL) -0.25 17-18 >846 480	MT20 244/190		
TCDL 10.0	Lumber DOL 1.00	BC 0.74	Vert(CT) -0.34 17-18 >616 360	M18AHS 186/179		
BCLL 0.0	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.07 14 n/a n/a			
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 91 lb FT = 20%F, 11%E		

BRACING-

TOP CHORD

BOT CHORD

17-8-8

LUMBER-

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

2x4 SP No.3(flat)

WFBS

REACTIONS. (size) 22=Mechanical, 14=Mechanical

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

TOP CHORD 2-3=-2018/0, 3-4=-3358/0, 4-5=-3358/0, 5-6=-3986/0, 6-7=-3986/0, 7-8=-3986/0,

8-10=-3358/0, 10-11=-3358/0, 11-12=-2018/0

Max Grav 22=960(LC 1), 14=960(LC 1)

21-22=0/1199, 19-21=0/2803, 18-19=0/3749, 17-18=0/3986, 16-17=0/3749, 15-16=0/2803. BOT CHORD 14-15=0/1199

WFBS 2-22=-1504/0, 2-21=0/1066, 3-21=-1022/0, 3-19=0/708, 5-19=-500/0, 5-18=-87/618,

6-18=-292/5, 12-14=-1504/0, 12-15=0/1066, 11-15=-1022/0, 11-16=0/708, 8-16=-500/0,

8-17=-87/618, 7-17=-292/5

NOTES-

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



May 5,2025



Job	Truss	Truss Type	Qty	Ply	Lot 193 Ballard Road
					173194724
J0525-2420	F06	FLOOR	1	1	
					Inh Reference (ontional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:36 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-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:

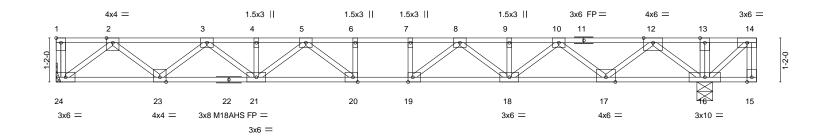
except end verticals.

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

0-11-15 1-3-0 1-4-1

Scale = 1:30.6

18-7-0



51 : 0" : 0"		17-2-	•9	1-4-7
Plate Offsets (X,Y)	[1:Edge,0-1-8], [19:0-1-8,Edge], [20:0-1	-8,Eagej		
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 0.54	Vert(LL) -0.25 19-20 >816 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.79	Vert(CT) -0.33 20 >614 360	M18AHS 186/179
BCLL 0.0	Rep Stress Incr NO	WB 0.53	Horz(CT) 0.06 16 n/a n/a	
BCDI 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 99 lb FT = 20%F, 11%E

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 24=Mechanical, 16=0-5-0 Max Grav 24=924(LC 3), 16=1834(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1927/0, 3-4=-3177/0, 4-5=-3177/0, 5-6=-3697/0, 6-7=-3697/0, 7-8=-3697/0,

8-9=-3075/0, 9-10=-3075/0, 10-12=-1747/239, 12-13=0/895, 13-14=0/894 23-24=0/1151, 21-23=0/2671, 20-21=0/3530, 19-20=0/3697, 18-19=0/3468, 17-18=0/2529,

BOT CHORD 16-17=-534/937

2-24=-1444/0, 2-23=0/1010, 3-23=-968/0, 3-21=0/646, 5-21=-450/0, 5-20=-248/503,

12-16=-1518/0, 12-17=0/1118, 10-17=-1082/0, 10-18=0/761, 8-18=-569/0, 8-19=-67/684,

7-19=-299/0, 14-16=-1163/0

NOTES-

WFBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) 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: 15-24=-10, 1-14=-100 Concentrated Loads (lb)

Vert: 14=-700



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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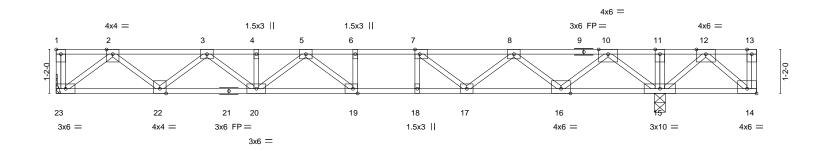
Job Truss Truss Type Qty Ply Lot 193 Ballard Road 173194725 J0525-2420 F07 Floor 5 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:36 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-1-2 1-1-2 1-3-0 1-6-4

Scale = 1:30.6



		16-0-4		2-6-12
Plate Offsets (X,Y)	[1:Edge,0-1-8], [7:0-1-8,Edge], [14:Edg	e,0-1-8], [19:0-1-8,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 0.70	Vert(LL) -0.20 19-20 >931 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.97	Vert(CT) -0.28 19-20 >691 360	
BCLL 0.0	Rep Stress Incr NO	WB 0.55	Horz(CT) 0.05 15 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 97 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

16-0-4

LUMBER-

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

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 23=Mechanical, 15=0-3-8 Max Grav 23=839(LC 3), 15=1971(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 13-14=-748/0, 2-3=-1713/0, 3-4=-2760/0, 4-5=-2760/0, 5-6=-2996/162, 6-7=-2996/162,

7-8=-2517/524, 8-10=-1358/1131, 10-11=0/1924, 11-12=0/1924

22-23=0/1039, 20-22=0/2359, 19-20=0/3002, 18-19=-162/2996, 17-18=-162/2996, BOT CHORD

16-17=-815/2085. 15-16=-1484/598. 14-15=-882/0

WFBS 2-23=-1303/0, 2-22=0/877, 3-22=-842/0, 3-20=-37/512, 5-20=-308/125, 5-19=-528/322,

 $10 - 15 = -1537/0, \ 10 - 16 = 0/1127, \ 8 - 16 = -1080/0, \ 8 - 17 = 0/770, \ 7 - 17 = -984/0, \ 7 - 18 = -48/291, \ 7 - 18/291, \ 7 - 18/291, \ 7 - 18/291, \ 7 - 18/291, \ 7 - 18/291, \ 7 - 18/291, \ 7$

12-14=0/1160, 12-15=-1370/0

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.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 14-23=-10, 1-13=-100

Concentrated Loads (lb) Vert: 13=-700

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

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

except end verticals.

18-7-0

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 193 Ballard Road
J0525-2420	F08	Floor	7	1	173194726
					Job Reference (optional)

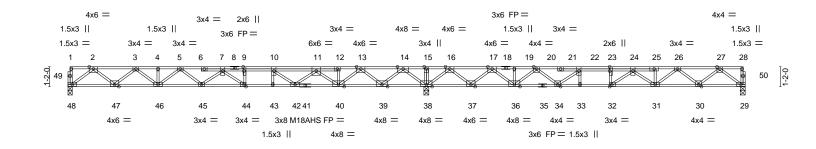
8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:37 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

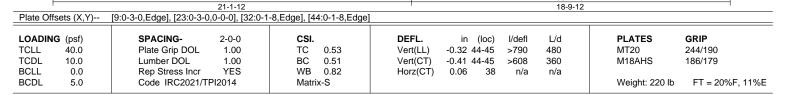
0-1-8

HI 1-3-0 1-6-4

1-8-4

0-1-8 Scale = 1:68.0





LUMBER-TOP CHORD 2x4 SP 2400F 2.0E(flat)

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

BRACING-TOP CHORD

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

except end verticals.

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

REACTIONS. (size) 48=0-3-0, 29=0-3-8, 38=0-3-8

Max Grav 48=986(LC 3), 29=867(LC 4), 38=2688(LC 1)

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

TOP CHORD 2-3=-2098/0, 3-4=-3513/0, 4-5=-3513/0, 5-7=-4239/0, 7-9=-4253/0, 9-10=-4253/0,

10-11=-3515/262, 11-12=-1849/901, 12-13=-1845/899, 13-14=0/1947, 14-15=0/4719, 15-16=0/4719, 16-17=0/2258, 17-19=-1696/1364, 19-20=-1696/1364, 20-22=-2874/697, 22-23=-3426/321, 23-24=-3426/321, 24-25=-2929/0, 25-26=-2924/0, 26-27=-1798/0

 $47 - 48 = 0/1240,\ 46 - 47 = 0/2921,\ 45 - 46 = 0/3947,\ 44 - 45 = 0/4485,\ 43 - 44 = 0/4253,\ 42 - 43 = 0/4253,\ 43 - 44 = 0/4253,\ 44 - 45 = 0/4485,\ 43 - 44 = 0/4253,\ 44 - 45 = 0$ BOT CHORD 40-42=-611/2823, 39-40=-1297/845, 38-39=-2993/0, 37-38=-3122/0, 36-37=-1781/862,

34-36=-1024/2360, 33-34=-321/3426, 32-33=-321/3426, 31-32=0/3373, 30-31=0/2483,

29-30=0/1082

2-48=-1553/0, 2-47=0/1117, 3-47=-1071/0, 3-46=0/756, 14-38=-2166/0, 14-39=0/1731,

13-39=-1706/0, 13-40=0/1394, 11-40=-1251/0, 11-42=0/1094, 10-42=-1200/0, 5-46=-553/2, 5-45=-36/374, 7-45=-318/99, 7-44=-857/78, 9-44=-34/435, 27-29=-1355/0,

27-30=0/931, 26-30=-892/0, 26-31=-64/563, 16-38=-2004/0, 16-37=0/1576, 17-37=-1551/0. 17-36=0/1246. 20-36=-1017/0. 20-34=0/898. 22-34=-1032/0.

24-31=-560/114, 24-32=-683/119, 23-32=-53/346

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Required 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 193 Ballard Road
10505 0400	E11	E			173194727
J0525-2420	F11 	Floor	2	1	Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:38 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-6-12

27-1-0

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

HI____1-3-0__

1-6-4

Scale = 1:45.4

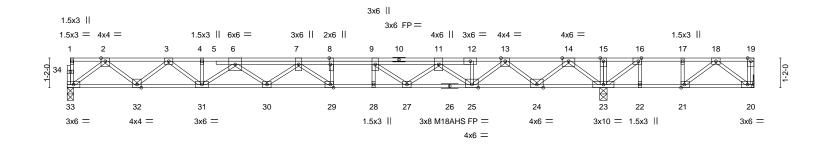


Plate Offsets (X,Y)	[8:0-3-0,Edge], [16:0-1-8,Edge], [21:0-1		5-11-4	
LOADING (psf) TCLL 40.0	SPACING- 1-7-3 Plate Grip DOL 1.00	CSI. TC 0.66	DEFL. in (loc) I/defl L/d Vert(LL) -0.27 29-30 >936 480	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0	Lumber DOL 1.00 Rep Stress Incr YES	BC 0.44 WB 0.59	Vert(CT) -0.27 29-30 >930 480 Vert(CT) -0.37 29-30 >679 360 Horz(CT) 0.06 23 n/a n/a	M18AHS 186/179
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 152 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

21-1-12

LUMBER-TOP CHORD

REACTIONS.

BOT CHORD

2x4 SP 2400F 2 0F(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat)

WFBS 2x4 SP No.3(flat)

(size) 20=Mechanical, 33=0-3-0, 23=0-3-8

Max Uplift 20=-238(LC 3)

Max Grav 20=187(LC 4), 33=839(LC 10), 23=1559(LC 1)

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

2-3=-1807/0, 3-4=-3045/0, 4-6=-3050/0, 6-7=-3904/0, 7-8=-3974/0, 8-9=-3974/0, TOP CHORD

9-11=-3485/0, 11-12=-2252/0, 12-13=-2249/0, 13-14=-608/0, 14-15=0/1767,

15-16=0/1767, 16-17=-99/936, 17-18=-99/936

32-33=0/1058, 31-32=0/2528, 30-31=0/3653, 29-30=0/4117, 28-29=0/3974, 27-28=0/3974,

25-27=0/3014, 24-25=0/1513, 23-24=-460/0, 22-23=-936/99, 21-22=-936/99,

20-21=-350/170

 $2\text{-}33\text{=-}1325/0,\ 2\text{-}32\text{=-}0/975,\ 3\text{-}32\text{=-}939/0,\ 3\text{-}31\text{=-}0/660,\ 6\text{-}31\text{=-}758/0,\ 6\text{-}30\text{=-}0/319,}$

7-30=-290/0, 7-29=-464/311, 14-23=-1647/0, 14-24=0/1237, 13-24=-1191/0,

13-25=0/949, 11-25=-957/0, 11-27=0/674, 9-27=-720/0, 18-20=-213/439, 16-23=-1261/0,

18-21=-748/0, 16-22=0/277, 17-21=0/311

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 7) Required 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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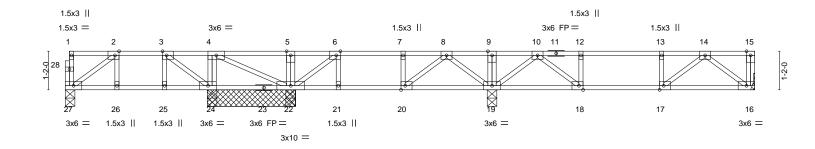
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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 193 Ballard Road
					173194728
J0525-2420	F12	Floor	1	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:38 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8 H | 1-3-0 | 1-3-12 | 2-1-8 1-10-0 2-3-12 Scale = 1:34.8



∟		4-3-6 4-5-4 5-7	-0 1 0-9-120	D- I-O	12-10-12				20-10-0	
		4-3-8 0-1-12 1-2	2-4 1-2-4 0)-1-12	5-11-4				7-11-4	<u> </u>
Plate Off	sets (X,Y)	[2:0-1-8,Edge], [3:0-1-8,Ed	ge], [6:0-1-8,[Edge], [17:0-1-8,E	Edge], [18:0-1-8,Edge], [2	0:0-1-8,Edge]				
LOADIN	G (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC 0.22	2 Vert(LL)	-0.03 16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC 0.19	9 Vert(CT)	-0.04 16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB 0.19	9 Horz(CT)	0.01 16	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2	2014	Matrix-S					Weight: 108 lb	FT = 20%F, 11%E

LUMBER-**BRACING-**2x4 SP No 1(flat)

TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat)

except end verticals. 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: WFBS 6-0-0 oc bracing: 22-24,19-20,18-19.

REACTIONS. All bearings 2-8-0 except (jt=length) 27=0-3-8, 16=Mechanical, 19=0-3-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 27 except 24=336(LC 16), 24=307(LC 1), 22=343(LC 13), 22=317(LC 1), 16=327(LC 5), 19=684(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 6-7=-393/0, 7-8=-393/0, 8-9=0/295, 9-10=0/295, 10-12=-550/0, 12-13=-550/0, TOP CHORD

13-14=-550/0

BOT CHORD 21-22=0/393, 20-21=0/393, 18-19=-25/273, 17-18=0/550, 16-17=0/354

WFBS 6-22=-328/0, 8-19=-397/0, 14-16=-444/0, 14-17=0/250, 10-19=-490/0, 10-18=0/396

NOTES-

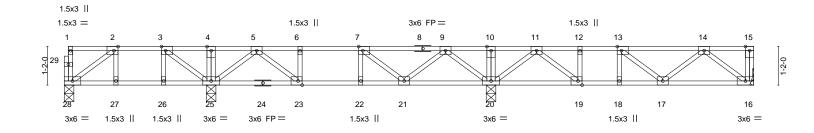
- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Recommend 2x6 strongbacks, on edge, 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 193 Ballard Road
					173194729
J0525-2420	F13	Floor	1	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:39 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



1	4-3-4		10-3-4	12-10-12	10-1-0	1	20-10-0
	4-5-4		5-10-0	2-7-8	5-2-4		2-9-0
Plate Offsets (X,Y)	[2:0-1-8,Edge], [3:0-1-	8,Edge], [7:0-1-8	3,Edge], [13:0-1-8,Edge], [1	9:0-1-8,Edge], [23:0-1-8,Ed	ge]		
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 0.23	Vert(LL) -0.03 17	-18 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.30	Vert(CT) -0.04 17	-18 >999 360		
BCLL 0.0	Rep Stress Inc	YES	WB 0.22	Horz(CT) 0.01	16 n/a n/a		
BCDL 5.0	Code IRC2021	/TPI2014	Matrix-S			Weight: 108 lb	FT = 20%F, 11%E

LUMBER-TOP CHORD

2x4 SP No 1(flat)

1-5-1

BOT CHORD 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat) BRACING-

12-10-12

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

18-1-0

except end verticals.

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

REACTIONS. All bearings 0-3-8 except (jt=length) 16=Mechanical.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 28 except 25=540(LC 16), 16=323(LC 5), 20=820(LC 11)

10-3-4

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

TOP CHORD 5-6=-537/0, 6-7=-537/0, 7-9=-353/0, 9-10=0/478, 10-11=0/478, 11-12=-541/62,

12-13=-541/62, 13-14=-495/0

BOT CHORD 23-25=0/327, 22-23=0/537, 21-22=0/537, 19-20=-229/260, 18-19=-62/541,

17-18=-62/541, 16-17=0/387

WFBS 3-25=-295/0, 9-20=-617/0, 5-25=-443/0, 9-21=0/309, 5-23=0/294, 7-21=-276/0,

14-16=-486/0, 11-20=-572/0, 11-19=0/459

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.



May 5,2025

20-10-0



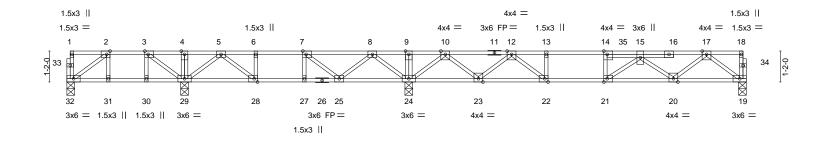
Job	Truss	Truss Type	Qty	Ply	Lot 193 Ballard Road
					173194730
J0525-2420	F14-GR	FLOOR GIRDER	1	1	
					Job Reference (optional)

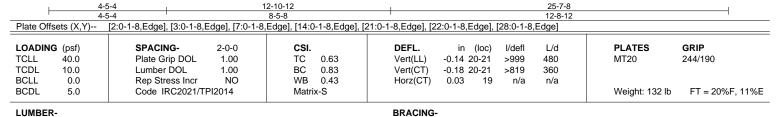
8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:40 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8



0-1-8 Scale = 1:43.4





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

11-18: 2x4 SP 2400F 2.0E(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 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 32 except 29=672(LC 3), 24=1428(LC 11), 19=797(LC 5)

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

TOP CHORD 5-6=-651/94, 6-7=-651/94, 7-8=-401/260, 8-9=0/963, 9-10=0/963, 10-12=-1053/0,

12-13=-2277/0, 13-14=-2277/0, 14-15=-2293/0, 15-17=-1674/0 28-29=-73/380, 27-28=-94/651, 25-27=-94/651, 24-25=-412/124, 23-24=-74/406.

22-23=0/1712, 21-22=0/2277, 20-21=0/2327, 19-20=0/977 WEBS

3-29=-414/0, 8-24=-827/0, 5-29=-553/0, 8-25=0/448, 5-28=-28/352, 7-25=-452/0, 10-24=-1323/0, 10-23=0/883, 12-23=-909/0, 12-22=0/913, 17-19=-1222/0, 17-20=0/899,

15-20=-837/0, 15-21=-289/91, 13-22=-433/0

NOTES-

BOT CHORD

- 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.
- 5) CAUTION, Do not erect truss backwards.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 317 lb down at 20-11-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Concentrated Loads (lb) Vert: 35=-253(F)

Vert: 19-32=-10, 1-18=-100



May 5,2025



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Job Truss Truss Type Qty Ply Lot 193 Ballard Road 173194731 FLOOR GIRDER J0525-2420 F15-GR Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:40 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 3x6 || 1-8-0 0-1-8 3 Scale = 1:8.5 6 3x4 =3x6 =5 3x6 =3-10-0 3-10-0 Plate Offsets (X,Y)--[3:0-3-0,Edge], [6:0-1-8,0-0-8] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defI L/d **PLATES GRIP** Vert(LL) 0.00 MT20 244/190

TCLL 40.0 Plate Grip DOL 1.00 TC 0.15 TCDL 10.0 Lumber DOL 1.00 BC 0.14 WB 0.10 **BCLL** 0.0 Rep Stress Incr NO BCDL 5.0 Code IRC2021/TPI2014 Matrix-P

-0.02 Horz(CT) 0.00 n/a **BRACING-**

Vert(CT)

TOP CHORD

Structural wood sheathing directly applied or 3-10-0 oc purlins,

Weight: 27 lb

except end verticals.

>999

4-5

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

480

360

n/a

LUMBER-TOP CHORD

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

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 5=Mechanical, 4=0-3-8 Max Grav 5=333(LC 1), 4=520(LC 1)

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

TOP CHORD 3-4=-321/0 **BOT CHORD** 4-5=0/359

WEBS 2-5=-409/0. 2-4=-386/0

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) 259 lb down at 1-4-4, and 283 lb down at 3-7-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Concentrated Loads (lb) Vert: 3=-283(F) 7=-259(F)



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)



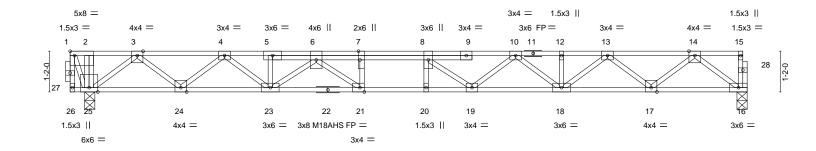
Job	Truss	Truss Type	Qty	Ply	Lot 193 Ballard Road
					I73194732
J0525-2420	F16	FLOOR	4	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:41 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8

1-8-8

0-1-8 Scale = 1:33.0



0-8	3-0		
0-6-8	1	19-6-0	
0-6-8		18-10-0	
0-1	1-8		
te Offcets	(Y V) [1:Edge 0-1-8] [7:0-3-0 Edge] [21:0-1-8 Edge]		

Plate Offsets (X, Y)	[1:Edge,0-1-8], [7:0-3-0,Edge], [21:0-1-	o,⊏ugej		
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 0.34	Vert(LL) -0.26 20 >853 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.79	Vert(CT) -0.35 20 >646 360	M18AHS 186/179
BCLL 0.0	Rep Stress Incr NO	WB 0.52	Horz(CT) 0.06 16 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 110 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.

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

REACTIONS. (size) 25=0-3-8, 16=0-3-8

Max Grav 25=2979(LC 1), 16=800(LC 4)

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

1-2=0/1077, 2-3=0/1078, 3-4=-1474/481, 4-5=-2724/1, 5-6=-2727/1, 6-7=-3664/0, TOP CHORD

7-8=-3664/0, 8-10=-3458/0, 10-12=-2865/0, 12-13=-2865/0, 13-14=-1707/0

BOT CHORD 24-25=-756/737, 23-24=-223/2192, 21-23=0/3276, 20-21=0/3664, 19-20=0/3664,

18-19=0/3233. 17-18=0/2379. 16-17=0/1007

WFBS $1-25 = -2264/0, \ 3-25 = -1334/0, \ 3-24 = 0/1026, \ 4-24 = -1007/0, \ 4-23 = 0/750, \ 14-16 = -1261/0,$

 $14-17=0/911,\ 13-17=-875/0,\ 13-18=0/621,\ 6-23=-724/0,\ 6-21=0/745,\ 10-18=-469/0,$

10-19=-38/397, 8-19=-426/93, 7-21=-383/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) 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: 16-26=-8, 1-15=-80 Concentrated Loads (lb)

Vert: 1=-2046



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/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 193 Ballard Road
					173194733
J0525-2420	FKW1	Floor Supported Gable	1	1	
					Llob Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:41 2025 Page 1

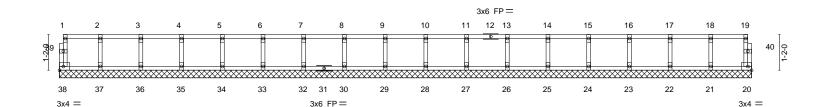
0-11-8

ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

except end verticals.

0-<u>1</u>-8 Scale = 1:37.7



	22-8-0									
LOADIN	G (psf) 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	CSI. TC 0.06	DEFL. Vert(LL)	in (I n/a	(loc) l	/defl n/a	L/d 999	PLATES MT20	GRIP 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	20	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014	Matrix-R						Weight: 94 lb	FT = 20%F, 11%E

TOP CHORD

22-8-0

LUMBER-**BRACING-**

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

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

REACTIONS. All bearings 22-8-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 38, 20, 37, 36, 35, 34, 33, 32, 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.





Job	Truss	Truss Type	Qty	Ply	Lot 193 Ballard Road
					173194734
J0525-2420	FKW2	Floor Supported Gable	1	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:41 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

Scale = 1:30.9

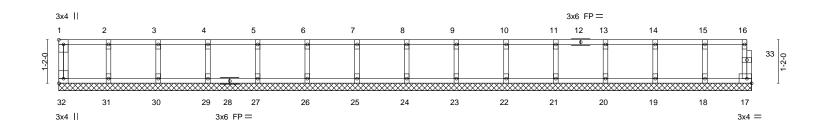


Plate Offsets (X,Y)	[1:Edge,0-1-8], [32:Edge,0-1-8]		10-7-0					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.06 BC 0.01 WB 0.03 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo n/a n/a 0.00	oc) l/defl - n/a - n/a 17 n/a	L/d 999 999 n/a	PLATES MT20 Weight: 78 lb	GRIP 244/190 FT = 20%F, 11%E

18-7-0

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

REACTIONS. All bearings 18-7-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

NOTES-

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



May 5,2025



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 193 Ballard Road
					173194735
J0525-2420	FKW3	Floor Supported Gable	1	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 09:10:42 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0118

Scale = 1:20.8

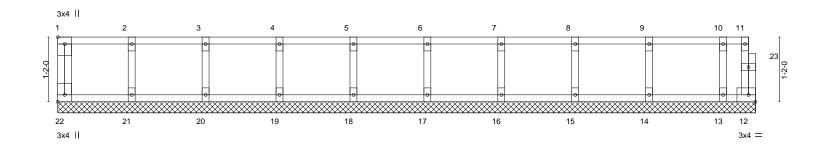


Plate Offsets (X,Y)	[1:Edge,0-1-8], [22:Edge,0-1-8]		12-7-0	
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00	CSI. TC 0.05 BC 0.01	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 244/190 Vert(CT) n/a - n/a 999	
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2021/TPI2014	WB 0.03 Matrix-R	Horz(CT) 0.00 12 n/a n/a Weight: 55 lb FT = 20%F	[∓] , 11%E

12-7-0

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 12-7-0.

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

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

NOTES-

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





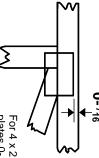
818 Soundside Road Edenton, NC 27932

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

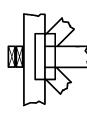
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

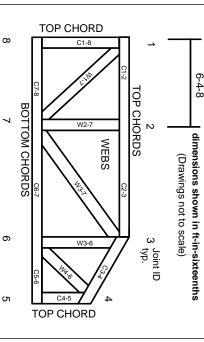
Industry Standards:

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.

ANSI/TPI1: 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.

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- 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.
- 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.