



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

(BASED ON TABLES R502.5(1) & (b))					
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER					
END REACTION (UP TO)	REQ'D STUDS FOR (1) FLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (1) FLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (1) FLY HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

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" or 19" oc.

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

Roof Area = 2588.48 sq.ft.
Ridge Line = 69.97 ft.
Hip Line = 44.66 ft.
Horiz. OH = 208.19 ft.
Raked OH = 168.99 ft.
Decking = 89 sheets

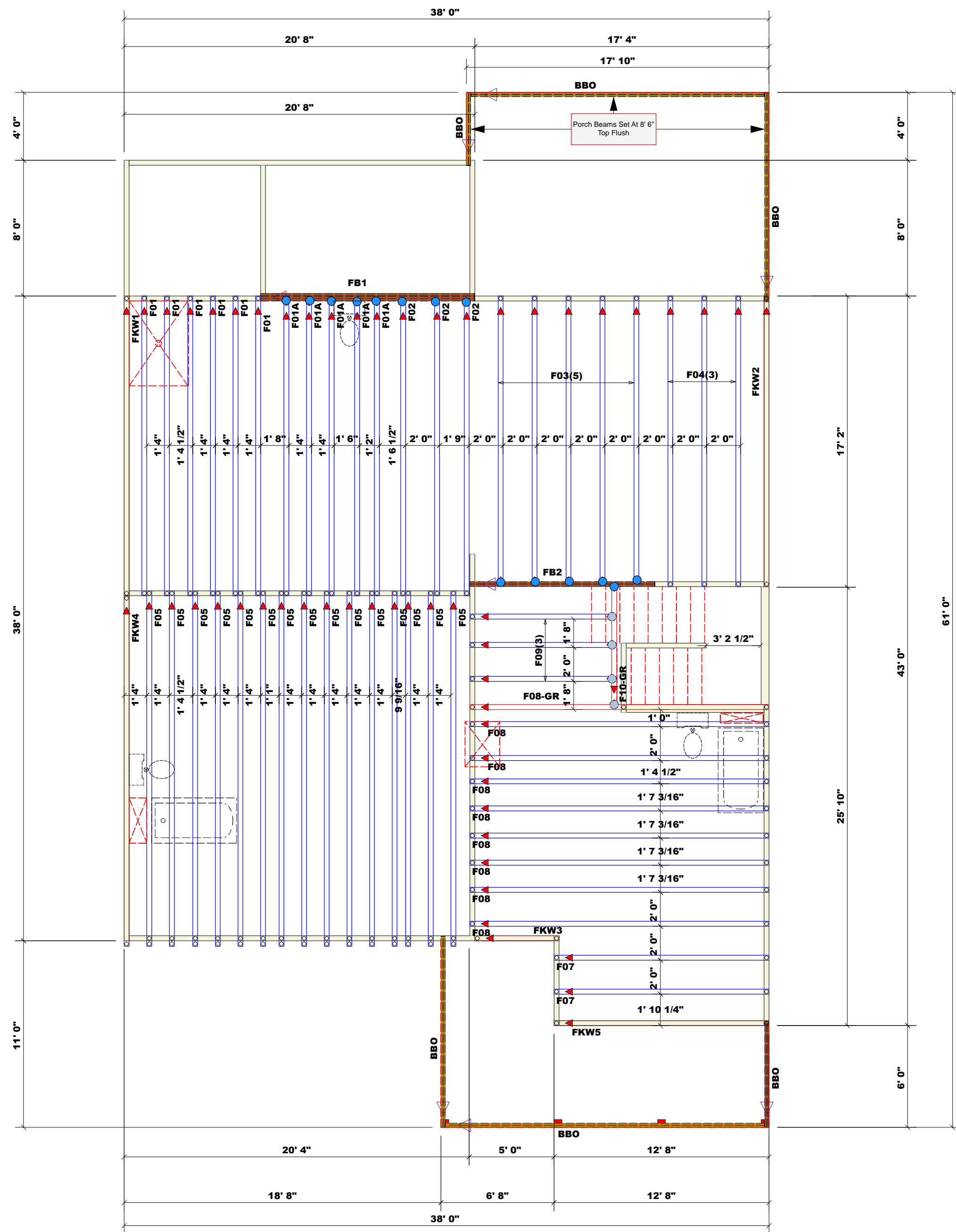
All Walls Shown Are Considered Load Bearing

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

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

Products				
PlotID	Length	Product	Plies	Net Qty
FB1	13' 0"	1-3/4"x 14" LVL Kerto-S	3	3
FB2	11' 0"	1-3/4"x 14" LVL Kerto-S	2	2

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS410	USP	14	NA	16d/3-1/2"	16d/3-1/2"
	MSH422	USP	4	Varies	10d/3"	10d/3"



Truss Placement Plan
SCALE: NTS

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

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

BUILDER	New Home Inc	CITY / CO.	Fuquay-Varina / Wake
JOB NAME	Lot 194 Ballard Road	ADDRESS	1931 Ballard Road
PLAN	The Selma - English Country - Face	MODEL	Floor
SEAL DATE	Seal Date	DATE REV.	5/19/25
QUOTE #	Quote #	DRAWN BY	Johnnie Baggett
JOB #	J0525-2417	SALES REP.	Johnnie Baggett

Web Stiffener Attachment

Cap:
1/4" minimum
2 1/4" maximum

1" for TJ®110-360 joists,
1 1/2" for TJ® 500 and 5600 joists

Nailing:
See table below

Web stiffener
both sides
See sizes below

Tight fit

Web Stiffener Requirements

TJ®	Depth (in.)	Minimum Web Stiffener Size	Nail Type	# of Nails End	# of Nails Int.
110	A1	1 1/2" x 2 1/2" x 1/4"	B1 (0.131" x 2 1/2")	3	3
210	A1	1 1/2" x 2 1/2" x 1/4"	B1 (0.131" x 2 1/2")	3	3
230, 360	A1	1 1/2" x 2 1/2" x 1/4"	B1 (0.131" x 2 1/2")	3	3
500	A1	2x4 ⁽¹⁾	16d (0.135" x 3 1/2")	3	3
5600	1 1/2"	2x4 ⁽¹⁾	16d (0.135" x 3 1/2")	4	4
	5			5	
	6			11	
	6			13	

(1) PS1 or PS2 sheathing, face grain vertical

(2) Construction grade or better

(3) Web stiffeners are always required for 22" and 24" TJ® 5600 joists.

Crawl Space Vent Hangers As Needed

Connector Summary			
PlotID	Qty	Manuf	Product
H1	5	MiTek	IHF20112
H1*	5	Simpson	IUS2.06/11.88*

Products

PlotID	Length	Product	Piles	Net Qty
J1	38' 0"	11 7/8" TJ® 210	1	11
J2	21' 0"	11 7/8" TJ® 210	1	6
J3	18' 0"	11 7/8" TJ® 210	1	11
J4	14' 0"	11 7/8" TJ® 210	1	2
J5	13' 0"	11 7/8" TJ® 210	1	6
J6	10' 0"	11 7/8" TJ® 210	1	2
J7	9' 0"	11 7/8" TJ® 210	1	4
J8	5' 0"	11 7/8" TJ® 210	1	1
BM1-2	9' 0"	1 3/4" x 11 7/8" 2.0E Microllam® LVL	2	4
Rim1	16' 0"	1 1/8" x 11 7/8" TJ® Rim Board	1	13
Bk1	6' 0"	11 7/8" TJ® 210	1	1

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

Framer Notes:

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

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

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

HVAC Hole Notes:

Red End (Lado Rojo)

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

Plate nail

Blocking panel:
1 1/8" TJ® Rim Board (with depths ≤ 16"),
1 1/4" or 1 1/2" TimberStrand® LSL,
or TJ® joist

Toe nail

Web stiffeners required on both sides at A1W ONLY

A1

A1W

Attach blocking per fastening instructions in detail A3.

Plate nail

Floor panel nail

When sheathing thickness exceeds 7/8", trim sheathing tongue at rim board

1 1/8" TJ® Rim Board (with depths ≤ 16"), 1 1/4" or 1 1/2" TimberStrand® LSL (see nailing schedule below)

Toe nail

Web stiffeners required on both sides at A3_W ONLY

A3

A3.1

A3.2

A3.3

A3_W

A3.1_W

A3.2_W

A3.3_W

Rim Board Installation

Specifications	A3, Conventional Construction, Code Minimum	A3.1, A3.2, A3.3, A3.4 Designed Solution
Rim Board Thickness	1 1/4" TJ® Rim Board, or 1 1/4" or 1 1/2" TimberStrand® LSL	
Plate Nail: (0.131" x 3")	12" o.c. ⁽¹⁾	See Weyerhaeuser's Rim Board Specifier's Guide (Reorder #TJ-8000)
Floor Panel Nail: 6d (0.131" x 2 1/2")	6" o.c.	
Toe Nail: (0.131" x 3")	6" o.c.	
Wall Sheathing	Per code	

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

Load bearing or braced/shear wall above (must stack over wall below)

Blocking panel:
1 1/8" TJ® Rim Board (with depths ≤ 16"),
1 1/4" or 1 1/2" TimberStrand® LSL,
or TJ® joist

Web stiffeners required on both sides at B1W ONLY. See footnote (1) under span tables.

B1

B1W

IRC 502.7 requires lateral restraint (blocking) at all intermediate supports in Seismic Design Categories D₀, D₁, and D₂ to strengthen the floor diaphragm

Load bearing wall above (must stack over wall below)

2x4 minimum squash blocks

Web stiffeners required on both sides at B2W ONLY. See footnote (1) under span tables.

B2

B2W

Blocking panels may be required in Seismic Design Categories D₀, D₁, and D₂ and/or with braced/shear walls above or below—see detail B1

Professional BUILDERS SUPPLY

...it's about the service!!!

3941 USHwy 421 North
Wilmington, NC 28401
(910) 386-4300

DRAWN BY:

JJC

DATE:

05-05-2025

SCALE:

1/4" = 1'-0"

SALESPERSON:

Kevin Martin

BUILDER NAME:

PROJECT NAME:

New Home Inc.

Lot 194 Ballard Road
The Selma - LH (Side) Elev. English Country)

LEVEL NAME:

1st Floor Framing Layout

PAGE: 1

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0525-2416
Lot 194 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: I73584381 thru I73584396

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

North Carolina COA: C-0844



May 19, 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 194 Ballard Road
J0525-2416	F01	FLOOR	6	1	173584381

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 08:47:19 2025 Page 1
ID:gNrAq5eY_vShn8nxUuGnZHyAPEn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

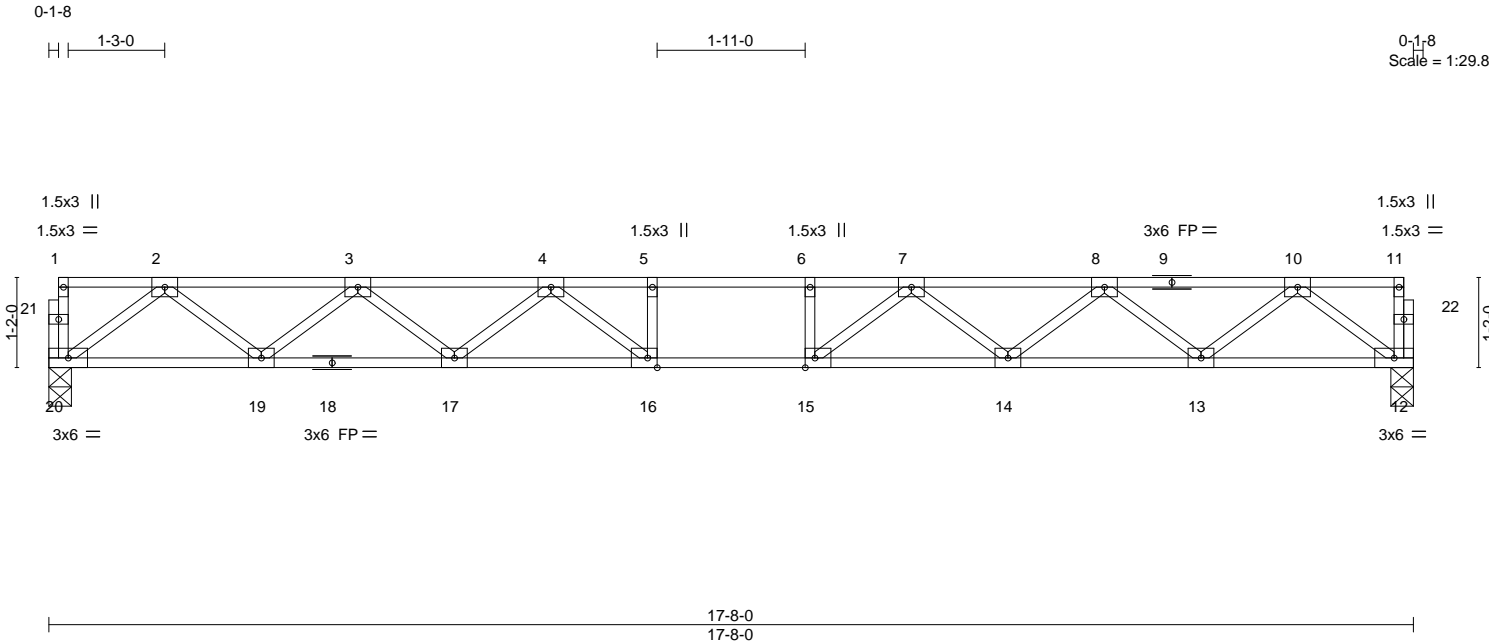


Plate Offsets (X,Y)--		[15:0-1-8,Edge], [16:0-1-8,Edge]	
LOADING (psf)	SPACING-	1-4-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.32
TCDL 10.0	Lumber DOL	1.00	BC 0.53
BCLL 0.0	Rep Stress Incr	YES	WB 0.34
BCDL 5.0	Code	IRC2021/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.18 15-16	>999	480
Vert(CT)	-0.25 15-16	>842	360
Horz(CT)	0.05 12	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 87 lb	FT = 20%F, 11%E		

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

REACTIONS. (size) 20=0-3-8, 12=0-3-8
Max Grav 20=634(LC 1), 12=634(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1345/0, 3-4=-2190/0, 4-5=-2638/0, 5-6=-2638/0, 6-7=-2638/0, 7-8=-2190/0, 8-10=-1345/0
BOT CHORD 19-20=0/793, 17-19=0/1874, 16-17=0/2485, 15-16=0/2638, 14-15=0/2485, 13-14=0/1874, 12-13=0/793
WEBS 2-20=-993/0, 2-19=0/718, 3-19=-689/0, 3-17=0/410, 4-17=-385/0, 4-16=-58/417, 10-12=-993/0, 10-13=0/718, 8-13=-689/0, 8-14=0/410, 7-14=-385/0, 7-15=-58/417

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.

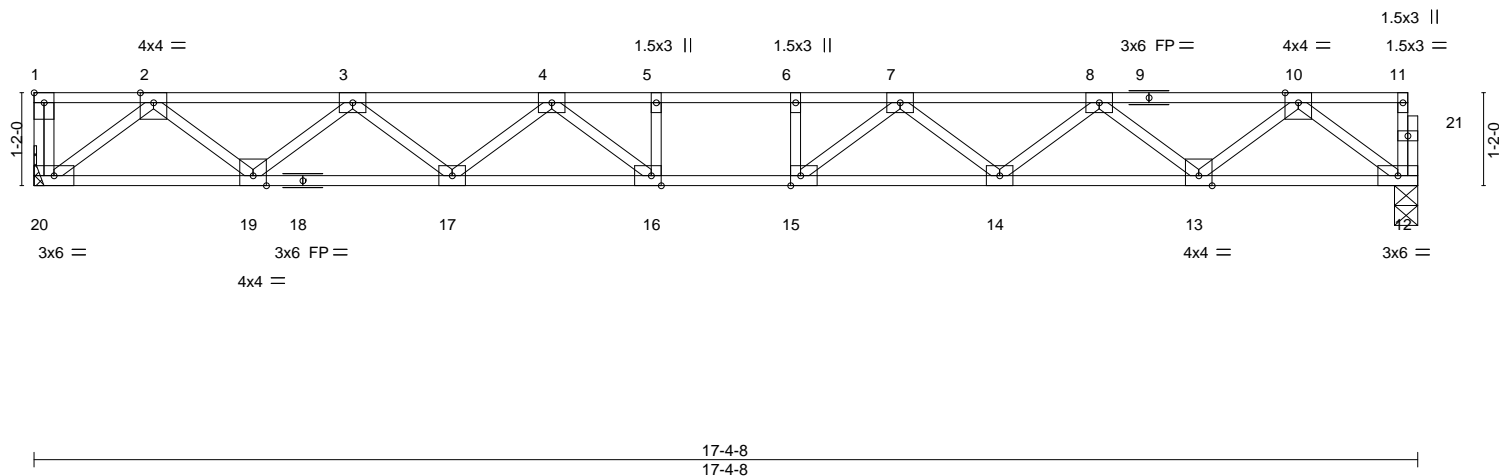


May 19,2025

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

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

Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 08:47:19 2025 Page 1
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1-3-0 1-7-8 0-1-8
Scale = 1:28.5



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

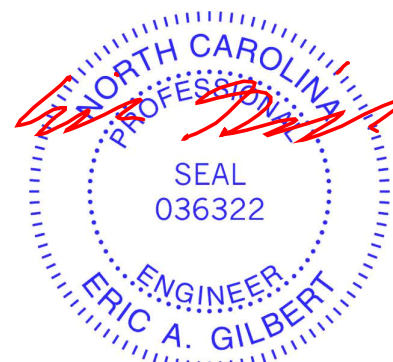
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1648/0, 3-4=-2672/0, 4-5=-3193/0, 5-6=-3193/0, 6-7=-3193/0, 7-8=-2672/0,
8-10=-1647/0

BOT CHORD 19-20=0/975, 17-19=0/2293, 16-17=0/3026, 15-16=0/3193, 14-15=0/3026, 13-14=0/2293,
12-13=0/974

WEBS 2-20=-1223/0, 2-19=0/876, 3-19=-840/0, 3-17=0/493, 4-17=-461/0, 4-16=-89/477,
10-12=-1220/0, 10-13=0/877, 8-13=-841/0, 8-14=0/493, 7-14=-461/0, 7-15=-89/477

- 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.



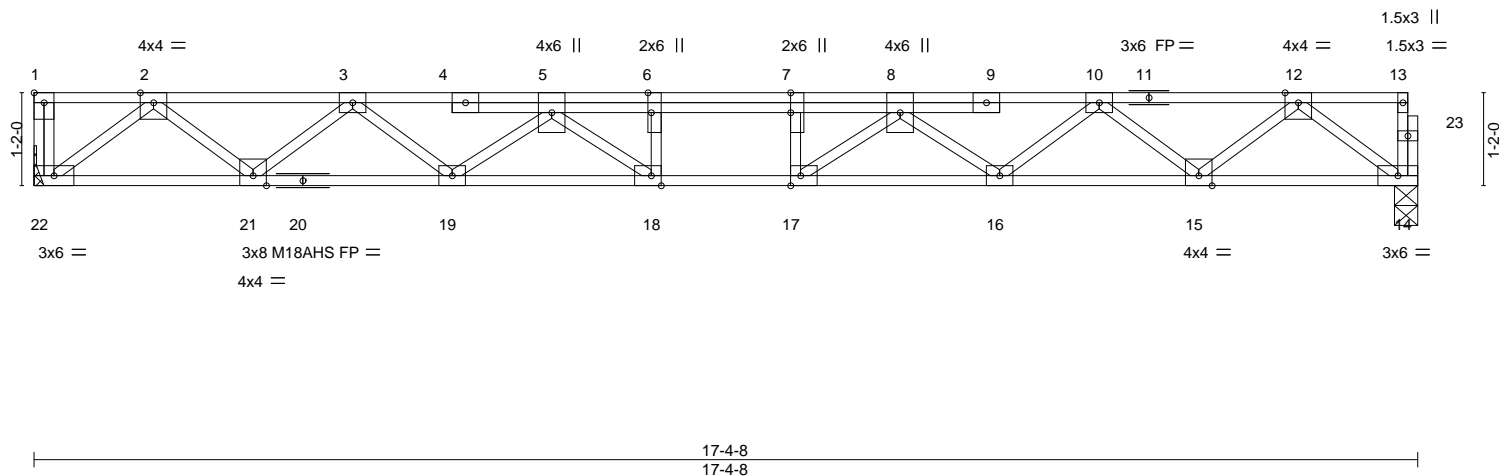
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818 Soundside Road
Edenton, NC 27932

Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 08:47:20 2025 Page 1
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1-3-0 1-7-8 0-1-8
Scale = 1:28.5



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

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

TOP CHORD 2-3=-1971/0, 3-5=-3254/0, 5-6=-4061/0, 6-7=-4061/0, 7-8=-4061/0, 8-10=-3254/0,
10-12=-1970/0

BOT CHORD 21-22=0/1176, 19-21=0/2733, 18-19=0/3768, 17-18=0/4061, 16-17=0/3768, 15-16=0/2733,
14-15=0/1175

WEBS 2-22=-1475/0, 2-21=0/1035, 3-21=-992/0, 3-19=0/673, 5-19=-658/0, 5-18=-50/671,
6-18=-355/25, 12-14=-1472/0, 12-15=0/1035, 10-15=-993/0, 10-16=0/673, 8-16=-658/0,
8-17=-50/671, 7-17=-355/25

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" o.c 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 19, 2025

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

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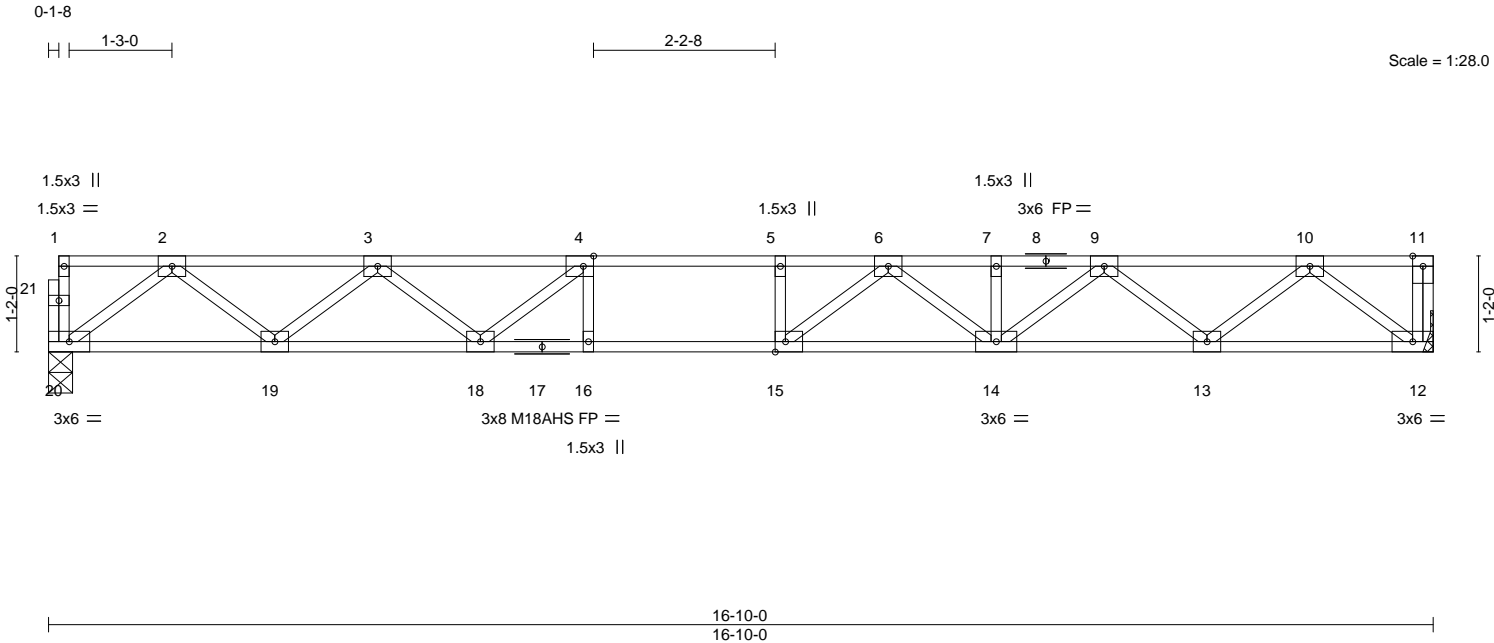


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2416	F03	Floor	5	1	173584384
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 08:47:20 2025 Page 1
ID:gNrAq5eY_vShn8nxUuGnZHyAPEn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.49	Vert(LL)	-0.22 14-15	>899	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.81	Vert(CT)	-0.30 14-15	>662	360	M18AHS	186/179
BCLL 0.0	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.05 12	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-S						

Weight: 85 lb FT = 20%F, 11%E

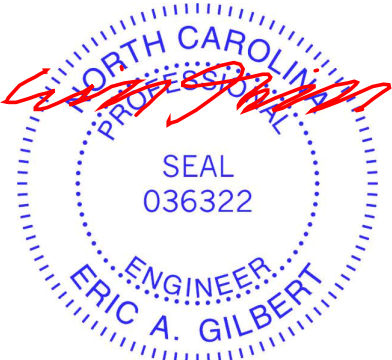
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 20=0-3-8, 12=Mechanical
Max Grav 20=724(LC 1), 12=729(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1519/0, 3-4=-2452/0, 4-5=-2846/0, 5-6=-2846/0, 6-7=-2497/0, 7-9=-2497/0, 9-10=-1516/0
BOT CHORD 19-20=0/907, 18-19=0/2100, 16-18=0/2846, 15-16=0/2846, 14-15=0/2758, 13-14=0/2102, 12-13=0/907
WEBS 10-12=-1138/0, 10-13=0/792, 9-13=-764/0, 9-14=0/504, 6-14=-334/0, 6-15=-133/410, 2-20=-1136/0, 2-19=0/797, 3-19=-755/0, 3-18=0/497, 4-18=-634/0

NOTES-

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



May 19,2025

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

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

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2416	F04	Floor	3	1	173584385

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 08:47:21 2025 Page 1
ID:gNrAq5eY_vShn8nxUuGnZHyAPEn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

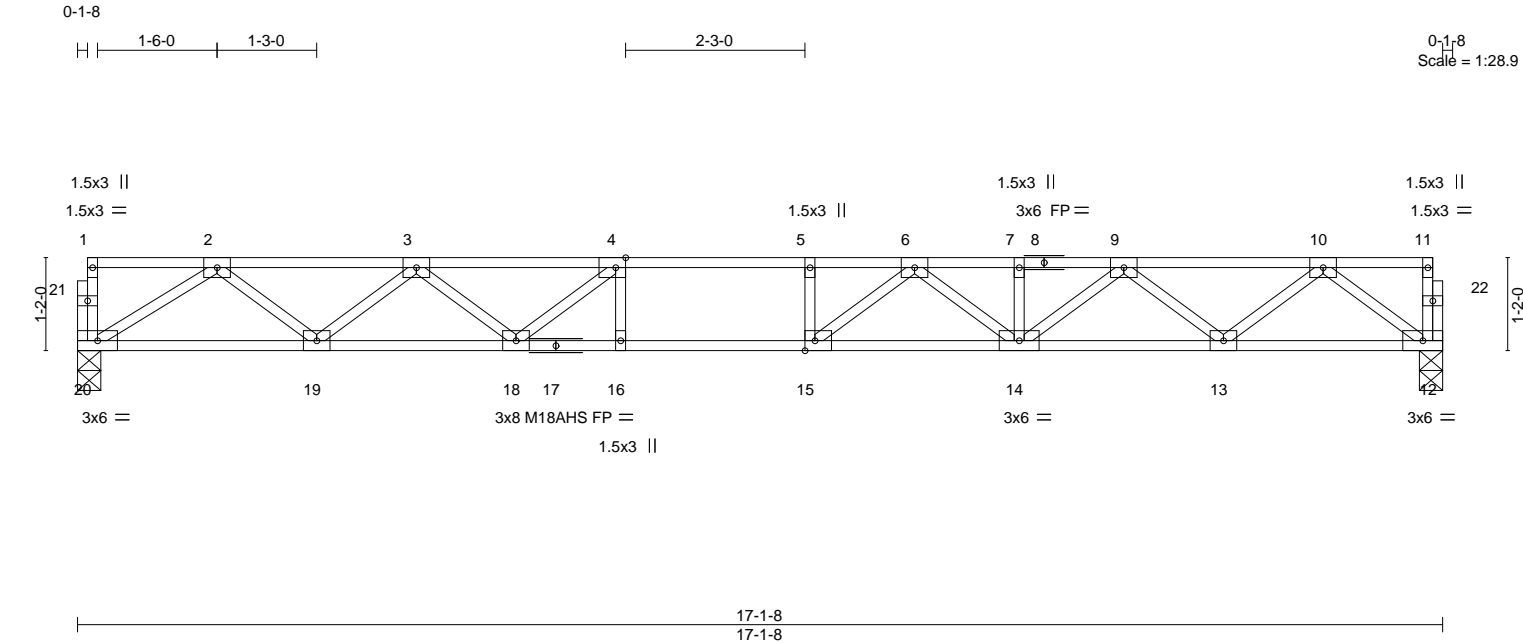


Plate Offsets (X,Y)--		[4:0-1-8,Edge], [15:0-1-8,Edge]	
LOADING (psf)	SPACING-	1-7-3	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.50
TCDL 10.0	Lumber DOL	1.00	BC 0.81
BCLL 0.0	Rep Stress Incr	YES	WB 0.39
BCDL 5.0	Code	IRC2021/TPI2014	Matrix-S
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.23 14-15 >891 480
			Vert(CT) -0.31 14-15 >656 360
			Horz(CT) 0.05 12 n/a n/a
			PLATES GRIP
			MT20 244/190
			M18AHS 186/179
			Weight: 85 lb FT = 20%F, 11%E

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

REACTIONS. (size) 20=0-3-8, 12=0-3-8
Max Grav 20=737(LC 1), 12=737(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1672/0, 3-4=-2581/0, 4-5=-2954/0, 5-6=-2954/0, 6-7=-2560/0, 7-9=-2560/0, 9-10=-1548/0
BOT CHORD 19-20=0/1070, 18-19=0/2242, 16-18=0/2954, 15-16=0/2954, 14-15=0/2838, 13-14=0/2149, 12-13=0/923
WEBS 2-20=-1268/0, 2-19=0/784, 3-19=-742/0, 3-18=0/489, 10-12=-1156/0, 10-13=0/813, 9-13=-783/0, 9-14=0/524, 6-14=-355/0, 6-15=-113/443, 4-18=-623/0

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



May 19,2025

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2416	F05	FLOOR	15	1	173584386
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 08:47:22 2025 Page 1
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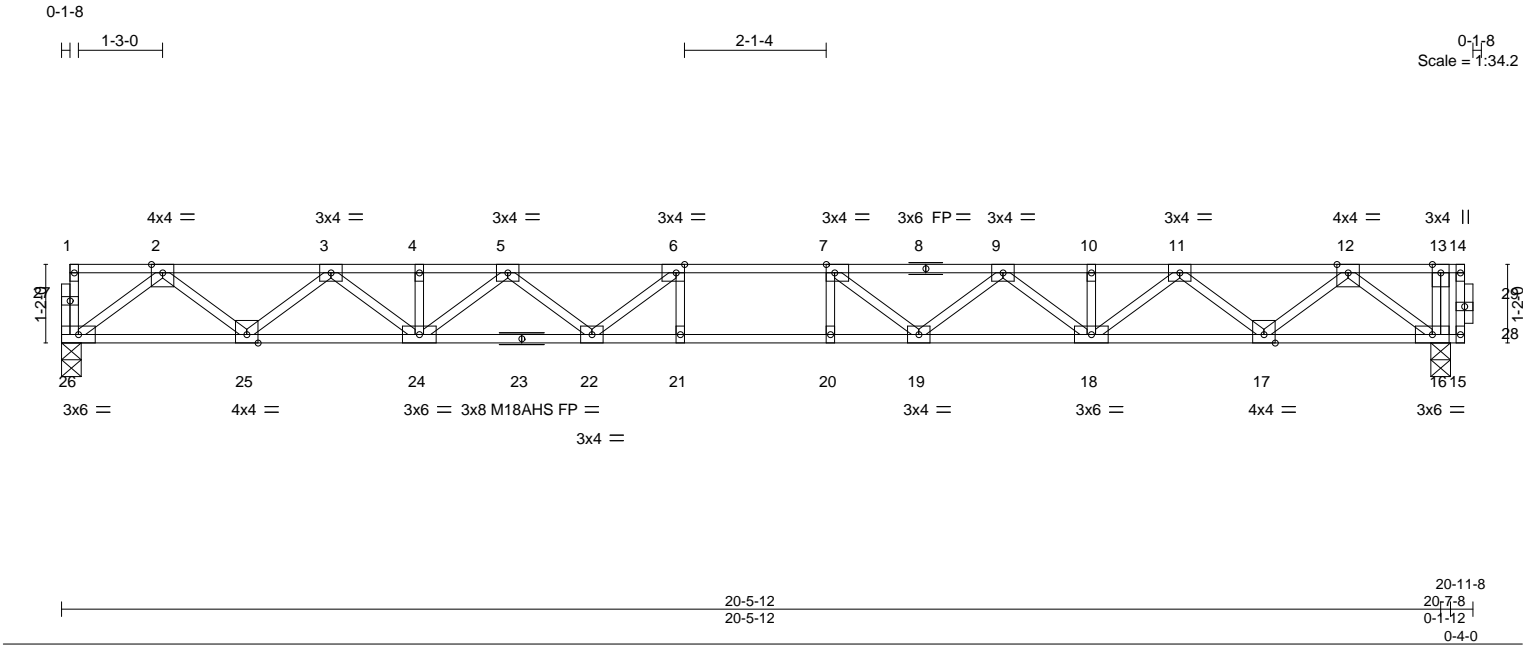


Plate Offsets (X,Y)--		[6:0-1-8,Edge], [7:0-1-8,Edge]	
LOADING (psf)	SPACING-	1-4-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.28
TCDL 10.0	Lumber DOL	1.00	BC 0.53
BCLL 0.0	Rep Stress Incr	NO	WB 0.42
BCDL 5.0	Code	IRC2021/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.27 20-21 >913 480
			Vert(CT) -0.37 20-21 >663 360
			Horz(CT) 0.06 16 n/a n/a
			PLATES GRIP
			MT20 244/190
			M18AHS 186/179
			Weight: 107 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 26=0-3-8, 16=0-3-8
Max Grav 26=742(LC 1), 16=1218(LC 1)

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

TOP CHORD 2-3=-1611/0, 3-4=-2757/0, 4-5=-2757/0, 5-6=-3400/0, 6-7=-3615/0, 7-9=-3400/0, 9-10=-2756/0, 10-11=-2756/0, 11-12=-1608/0

BOT CHORD 25-26=0/937, 24-25=0/2263, 22-24=0/3180, 21-22=0/3615, 20-21=0/3615, 19-20=0/3615, 18-19=0/3178, 17-18=0/2260, 16-17=0/937

WEBS 13-16=-483/0, 2-26=-1174/0, 2-25=0/877, 3-25=-848/0, 3-24=0/631, 12-16=-1176/0, 12-17=0/874, 11-17=-848/0, 11-18=0/633, 5-24=-539/0, 5-22=0/389, 6-22=-498/49, 9-18=-539/0, 9-19=0/389, 7-19=-499/48

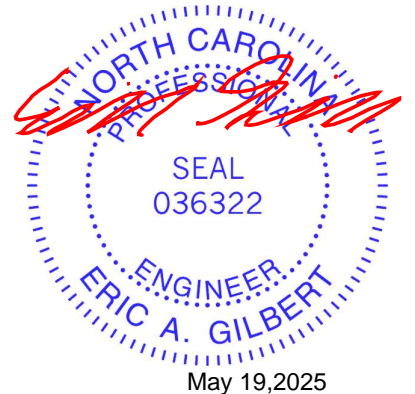
- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 4) Plates checked for a plus or minus 1 degree rotation about its center.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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

Uniform Loads (plf)
Vert: 15-26=-7, 1-14=-67

Concentrated Loads (lb)
Vert: 13=-450



May 19,2025

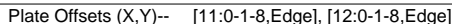
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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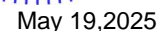
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BRACING- TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1322/0, 3-4=-1996/0, 4-5=-1996/0, 5-6=-1996/0, 6-7=-1322/0
 BOT CHORD 13-14=0/835, 12-13=0/1774, 11-12=0/1996, 10-11=0/1774, 9-10=0/835
 WEBS 2-14=-1045/0, 2-13=0/633, 3-13=-588/0, 7-9=-1045/0, 7-10=0/633, 6-10=-588/0,
 6-11=0/485, 3-12=0/485

- 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" 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.



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Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 08:47:23 2025 Page 1
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1.5x3 ||

1.5x3 = 3x6 =

4x6 || 2x6 || 2x6 || 4x6 || 3x6 FP = 3x6 = 1.5x3 =

1 2 3 4 5 6 7 8 9 10 11 12 13

22 21 20 19 18 17 16 15 14

3x6 = 3x8 M18AHS FP = 3x6 = 3x6 =

17-7-8
17-7-8

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

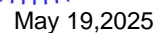
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2005/0, 3-5=-3322/0, 5-6=-4173/0, 6-7=-4173/0, 7-8=-4173/0, 8-10=-3322/0,
10-12=-2005/0

BOT CHORD 21-22=0/1193, 19-21=0/2784, 18-19=0/3854, 17-18=0/4173, 16-17=0/3854, 15-16=0/2784,
14-15=0/1193

WEBS 2-22=-1494/0, 2-21=0/1057, 3-21=-1014/0, 3-19=0/695, 5-19=-682/0, 5-18=-34/721,
6-18=-382/16, 12-14=-1494/0, 12-15=0/1057, 10-15=-1014/0, 10-16=0/695, 8-16=-682/0,
8-17=-34/721, 7-17=-382/16

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



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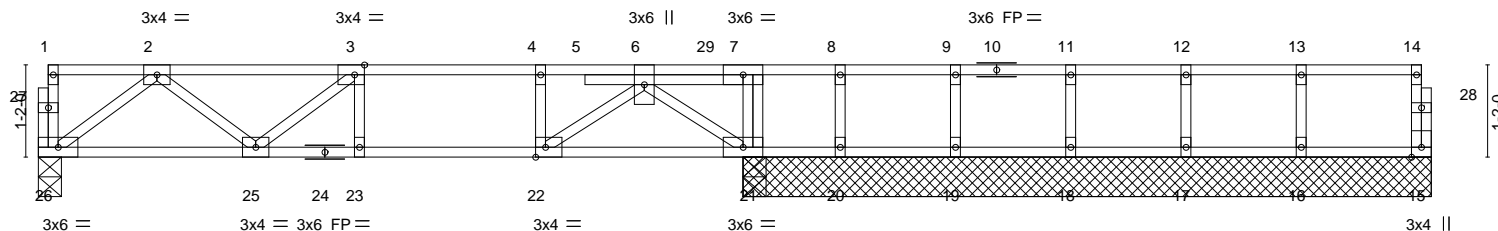
818 Soundside Road
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Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 08:47:23 2025 Page 1
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2-2-0

0-11-0 1-4-0 1-4-0 1-4-0 1-4-0

0-1-8
Scale = 1:29.2



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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-946/0, 3-4=-1204/0, 4-6=-1206/0
 BOT CHORD 25-26=0/644, 23-25=0/1204, 21-22=0/921
 WEBS 7-21=-761/0, 2-26=-806/0, 2-25=0/394, 3-25=-382/0, 6-21=-1008/0, 6-22=0/373

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 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) 861 lb down at 8-6-0 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).

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-26=-10, 1-14=-100
Concentrated Loads (lb)
Vert: 29=-799(B)



May 19, 2025

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Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2416	F09	Floor	3	1	173584390
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 08:47:24 2025 Page 1
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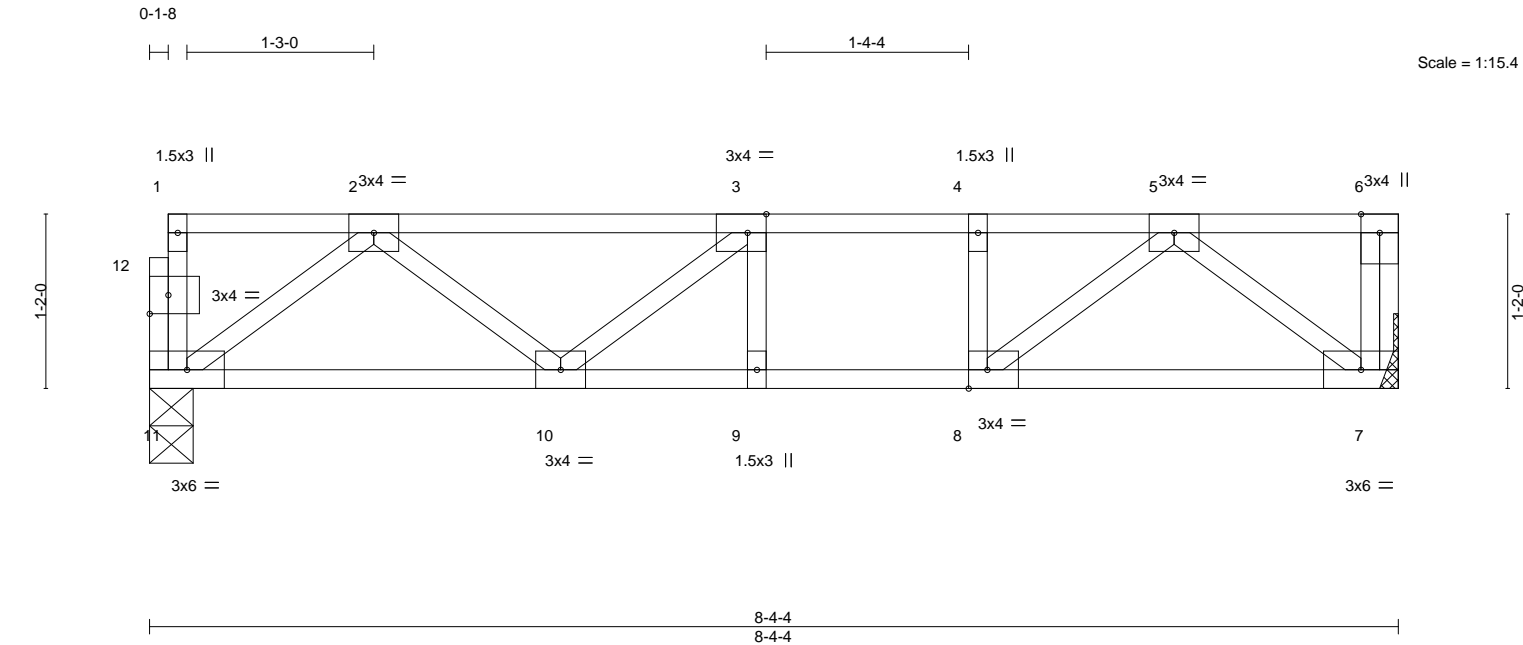


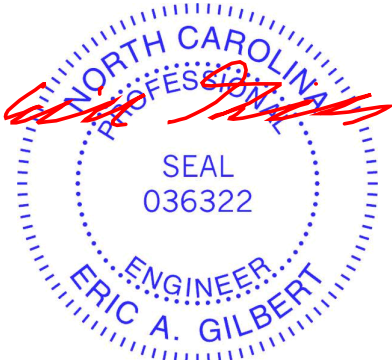
Plate Offsets (X,Y)-- [3:0-1-8,Edge], [8:0-1-8,Edge], [12:0-1-8,0-1-8]					
LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL. in (loc) l/defl L/d
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26
TCDL	10.0	Lumber DOL	1.00	BC	0.38
BCLL	0.0	Rep Stress Incr	YES	WB	0.21
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S	
				PLATES GRIP	
				MT20 244/190	
				Weight: 44 lb FT = 20%F, 11%E	

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

REACTIONS. (size) 11=0-3-8, 7=Mechanical
Max Grav 11=440(LC 1), 7=446(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=723/0, 3-4=839/0, 4-5=839/0
BOT CHORD 10-11=0/537, 9-10=0/839, 8-9=0/839, 7-8=0/504
WEBS 2-11=671/0, 5-7=632/0, 5-8=0/449

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



May 19,2025

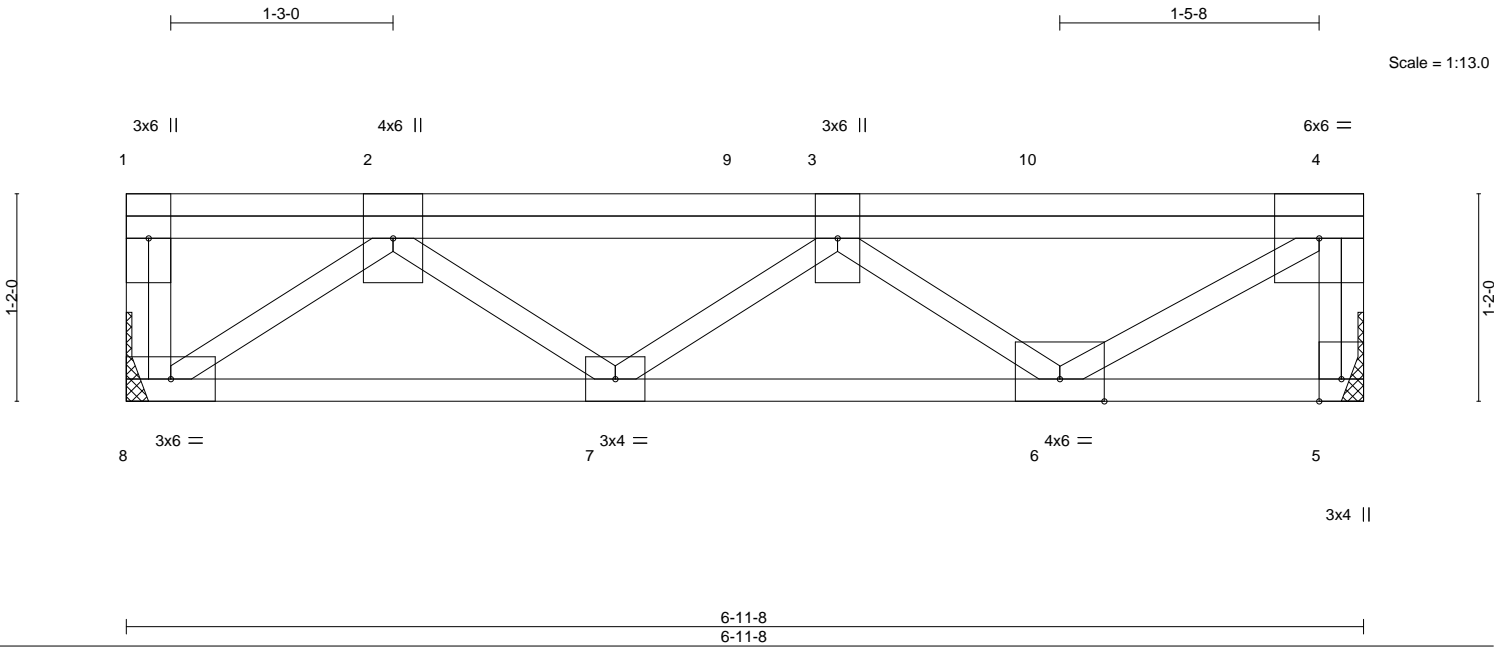
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2416	F10-GR	FLOOR GIRDER	1	1	173584391

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 08:47:24 2025 Page 1
ID:gNrAq5eY_vShn8nxUuGnZHyAPEn-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrcDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.39	Vert(LL)	-0.02 6-7	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.40	Vert(CT)	-0.03 6-7	>999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.59	Horz(CT)	0.01 5	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-P					Weight: 47 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 5=Mechanical, 8=Mechanical
Max Grav 5=876(LC 1), 8=899(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-867/0, 2-3=-1531/0, 3-4=-1057/0
BOT CHORD 7-8=0/1161, 6-7=0/1867
WEBS 2-8=-1425/0, 2-7=0/470, 3-7=-426/0, 3-6=-1029/0, 4-6=0/1242

- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 346 lb down at 1-6-4, and 346 lb down at 3-6-4, and 346 lb down at 5-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 5) 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: 5-8=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 2=-346(B) 9=-346(B) 10=-346(B)



May 19,2025

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

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

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2416	FKW1	Floor Supported Gable	1	1	8.630 s Aug 30 2023 MiTek Industries, Inc. Tue May 20 08:22:05 2025 Page 1
					Job Reference (optional)

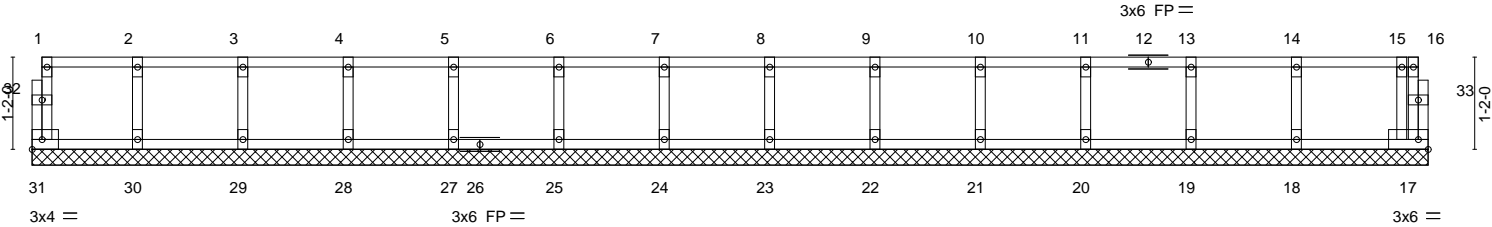
Comtech, Inc., Fayetteville, NC - 28314,

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0-1-8

0-1-8

Scale = 1:29.2



17-8-0									
17-8-0									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES
TCLL 40.0	Plate Grip DOL	1.00	TC 0.07	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	17	n/a	n/a	
BCDL 5.0	Code	IRC2021/TPI2014	Matrix-R						Weight: 75 lb
									FT = 20%F, 11%E

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

REACTIONS. All bearings 17-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 31, 17, 30, 29, 28, 27, 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.



May 19,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2416	FKW2	Floor Supported Gable	1	1	173584393
					Job Reference (optional)

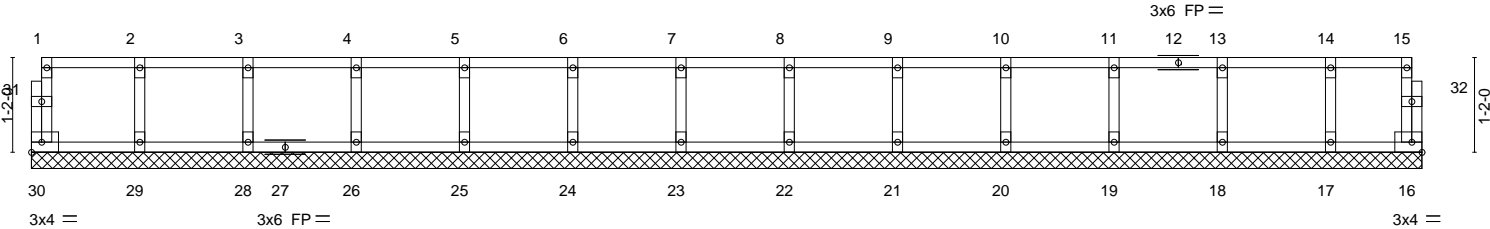
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 08:47:25 2025 Page 1
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0-1/8

0-1/8

Scale = 1:28.4



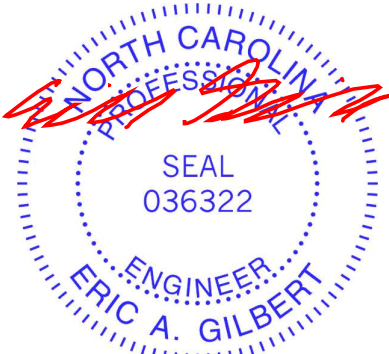
17-1-8										17-1-8									
LOADING (psf)		SPACING-		CSI.		DEFL.		in (loc) l/defl L/d		PLATES		GRIP							
TCLL	40.0	Plate Grip DOL	2-0-0	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190							
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999									
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	16	n/a	n/a									
BCDL	5.0	Code IRC2021/TPI2014		Matrix-R															
										Weight: 72 lb FT = 20%F, 11%E									

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

REACTIONS. All bearings 17-1-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17

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.



May 19,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road	173584394
J0525-2416	FKW3	Floor Supported Gable	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 08:47:25 2025 Page 1
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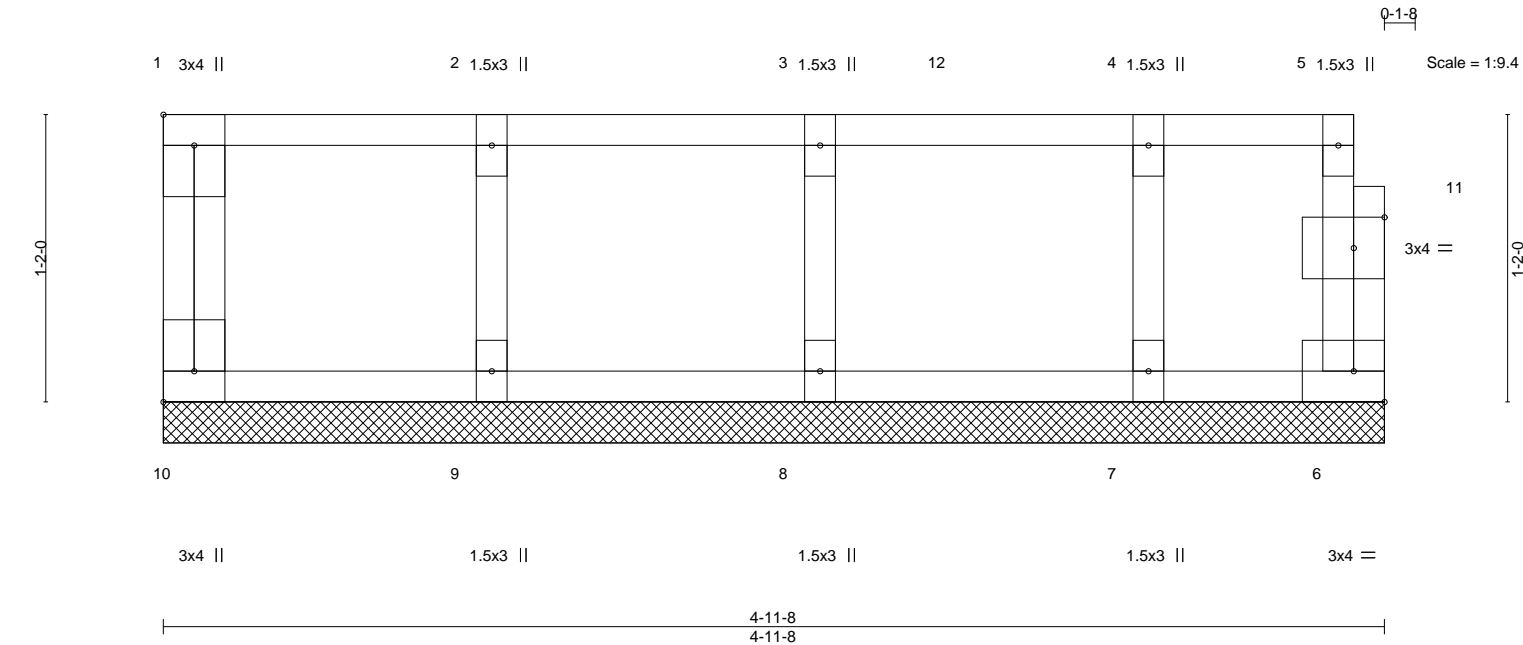


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [10:Edge,0-1-8], [11:0-1-8,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	in (loc)	l/defl	L/d	GRIP
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(LL)	n/a	n/a	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Vert(CT)	n/a	n/a	
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R		Horz(CT)	0.00	6	n/a
								Weight: 24 lb FT = 20%F, 11%E	

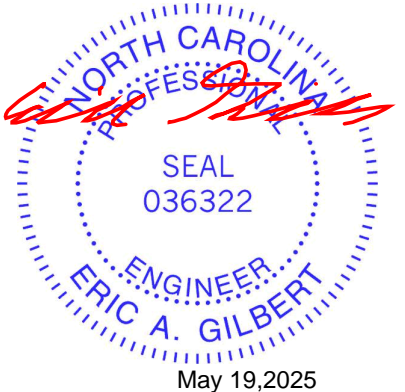
LUMBER-			BRACING-		
TOP CHORD	2x4 SP No.1(flat)		TOP CHORD	Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.	
BOT CHORD	2x4 SP No.1(flat)		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
WEBS	2x4 SP No.3(flat)				
OTHERS	2x4 SP No.3(flat)				

REACTIONS. All bearings 4-11-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 7 except 9=324(LC 1), 8=282(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-307/0, 3-8=-268/0

- NOTES-**
- 1) Plates checked for a plus or minus 1 degree rotation about its center.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 202 lb down at 1-3-4, and 202 lb down at 3-3-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-10=-10, 1-5=-100
Concentrated Loads (lb)
Vert: 2=-202(F) 12=-202(F)



Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2416	FKW4	Floor Supported Gable	1	1	173584395
Job Reference (optional)					

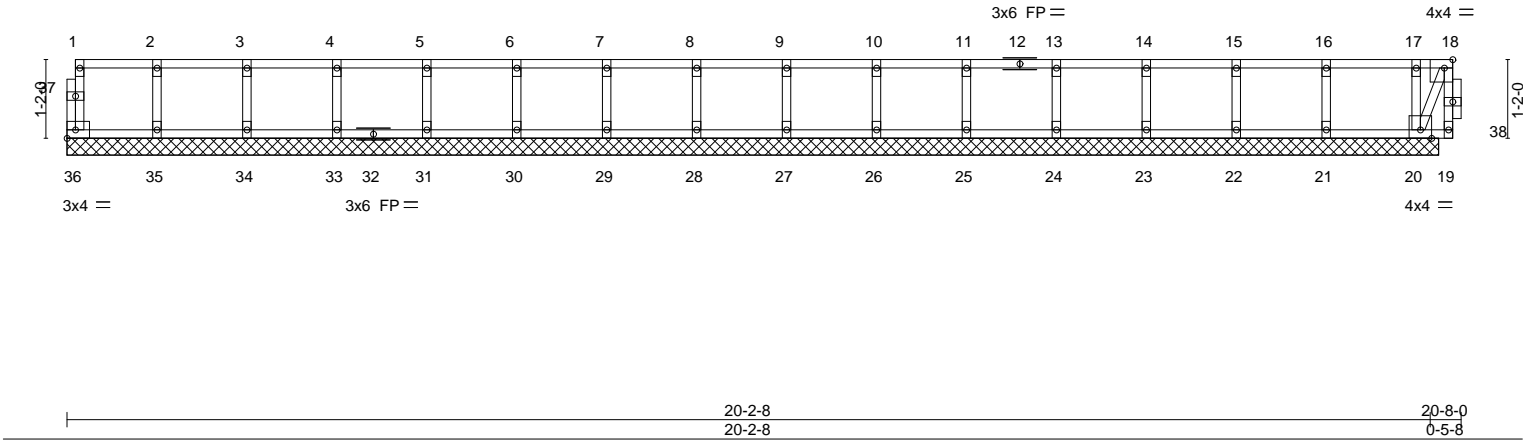
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 08:47:25 2025 Page 1
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0-1-8

H I 19-9-12

0-4-0-1-8
Scale 1:1.34.2



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	n/a - n/a	MT20	244/190		
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	n/a - n/a				
BCLL	0.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00 20 n/a				
BCDL	5.0	Code	IRC2021/TP12014	Matrix-S							
										Weight: 88 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 19-20.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

REACTIONS. All bearings 20-4-0.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 21=148(LC 1)

Max Grav All reactions 250 lb or less at joint(s) 36, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22 except 20=815(LC 1)

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

TOP CHORD 18-19=-269/0

WEBS 17-20=-449/0

- 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 21.
 - 6) Non Standard bearing condition. Review required.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 19-36=-10, 1-18=-100

Concentrated Loads (lb)

Vert: 18=-450



May 19,2025

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2416	FKW5	Floor Supported Gable	1	1	173584396
					Job Reference (optional)

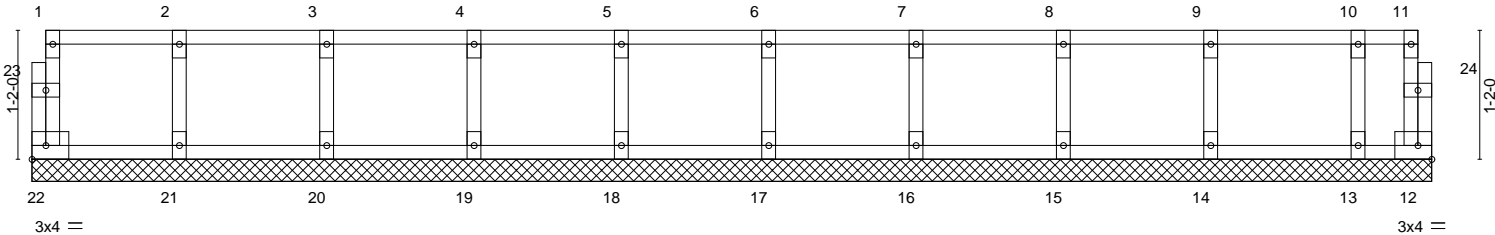
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 08:47:26 2025 Page 1
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0118

0118

Scale = 1:20.8



12-8-0									
12-8-0									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	40.0	Plate Grip DOL	2-0-0	TC	0.06	in	(loc)	l/defl	L/d
TCDL	10.0	Lumber DOL	1.00	BC	0.01	n/a	-	n/a	999
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	n/a	-	n/a	999
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R		0.00	12	n/a	n/a
								Weight: 55 lb	FT = 20%F, 11%E

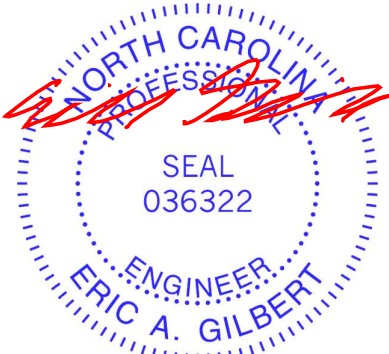
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

REACTIONS. All bearings 12-8-0.
(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.



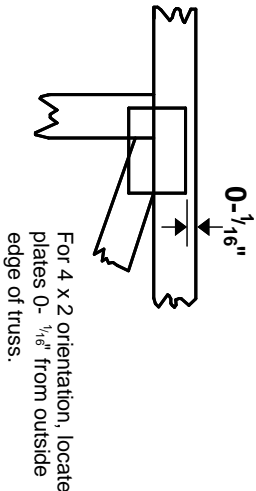
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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING

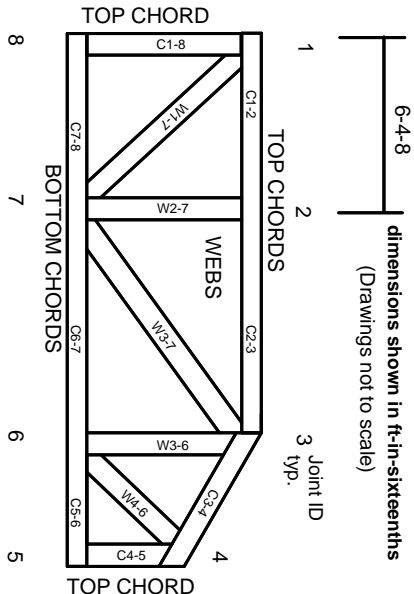


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

MITek

ENGINEERING BY
TRENCO
A MITek Affiliate

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



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

(BASED ON TABLES R502.5(1) & (b))					
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER					
END REACTION (UP TO)	REQ'D STUDS FOR (1) 1" x 1" HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (1) 1" x 1" HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (1) 1" x 1" HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

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.

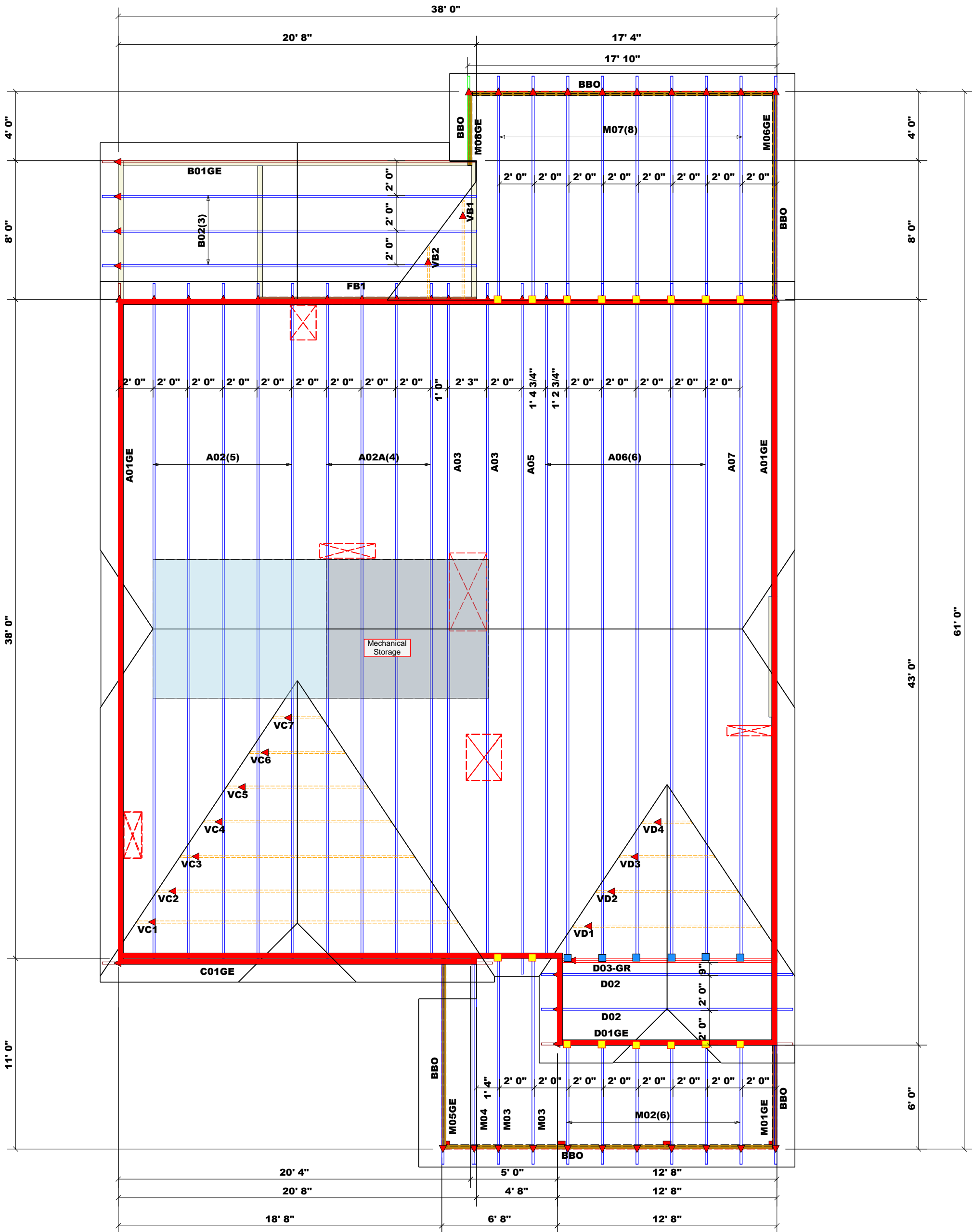
Roof Area = 2588.48 sq.ft.
Ridge Line = 69.97 ft.
Hip Line = 44.66 ft.
Horiz. OH = 208.19 ft.
Raked OH = 168.99 ft.
Decking = 89 sheets

All Walls Shown Are
Considered Load Bearing

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

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

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



Truss Placement Plan
SCALE: NTS

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

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

BUILDER	NEW HOME INC	CITY / CO.	FUQUAY-VARINA / WAKE
JOB NAME	Lot 194 Ballard Road	ADDRESS	1931 Ballard Road
PLAN	The Selma - English Country - Face	MODEL	Roof
SEAL DATE	Seal Date	DATE REV.	5/6/25
QUOTE #	Quote #	DRAWN BY	Johnnie Baggett
JOB #	J0524-2415	SALES REP.	Johnnie Baggett

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0525-2415
Lot 194 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: I73271293 thru I73271326

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

North Carolina COA: C-0844



May 7, 2025

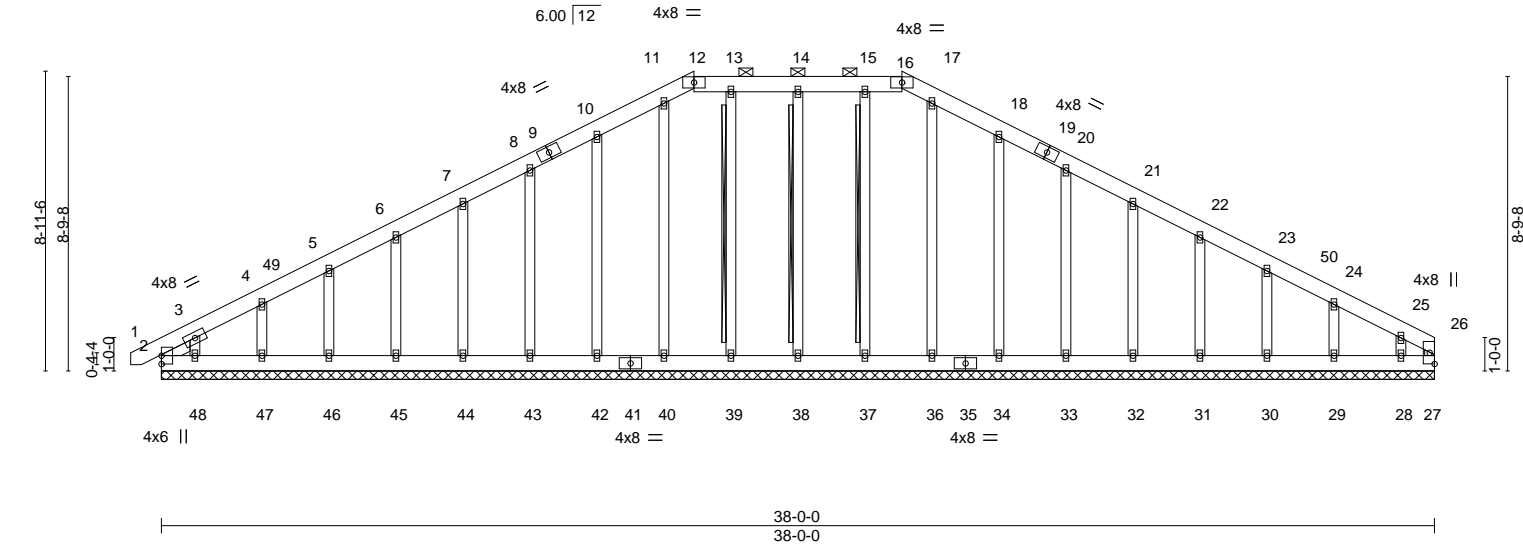
Galinski, John

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 194 Ballard Road
J0525-2415	A01GE	GABLE	2	1	I73271293
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:11:48 2025 Page 1
ID:6sEbUEa?UXFISWdGGiityrzsVdl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f
-0-11-0 15-10-12 22-1-4 38-0-0
0-11-0 15-10-12 6-2-8 15-10-12

Scale = 1:68.8



LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	1	n/r	120	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	1	n/r	120	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	27	n/a	n/a	
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S							Weight: 324 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 12-16.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2	WEBS	T-Brace: 2x4 SPF No.2 - 14-38, 13-39, 15-37
OTHERS	2x4 SP No.2		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.
SLIDER	Left 2x4 SP No.2 0-11-10		Brace must cover 90% of web length.

REACTIONS. All bearings 38-0-0.
(lb) - Max Horz 2=180(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 27, 2, 38, 39, 42, 43, 44, 45, 46, 47, 37, 34, 33, 32, 31, 30, 29 except 48=153(LC 12), 28=155(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 27, 2, 38, 39, 40, 42, 43, 44, 45, 46, 47, 48, 37, 36, 34, 33, 32, 31, 30, 29, 28

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-284/97, 10-11=-113/307, 11-12=-115/311, 12-13=-108/310, 13-14=-107/311, 14-15=-107/311, 15-16=-108/310, 16-17=-115/311, 17-18=-113/307

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=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 15-10-12, Corner(3R) 15-10-12 to 20-3-9, Exterior(2N) 20-3-9 to 22-1-4, Corner(3R) 22-1-4 to 26-6-1, Exterior(2N) 26-6-1 to 37-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 2, 38, 39, 42, 43, 44, 45, 46, 47, 37, 34, 33, 32, 31, 30, 29 except (jt=lb) 48=153, 28=155.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	A02	FINK	5	1	173271294
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:11:48 2025 Page 1
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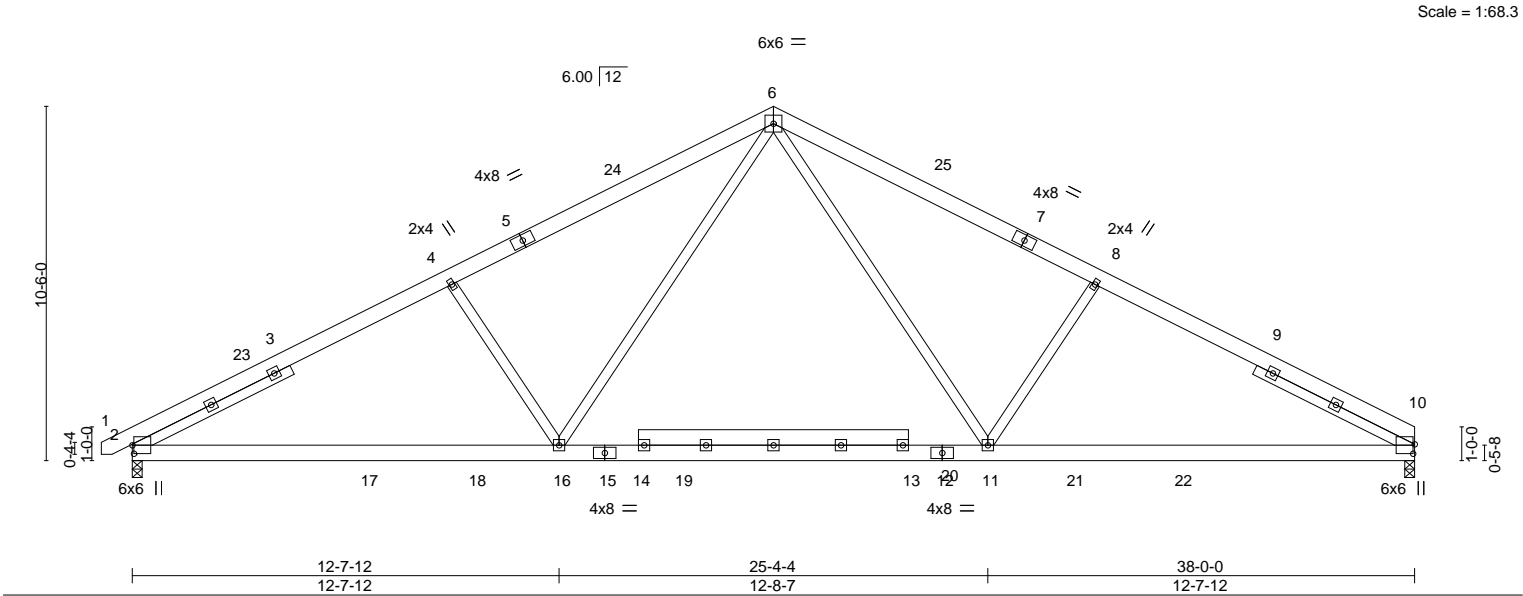


Plate Offsets (X,Y)-- [2:0-3-0,0-0-9], [7:0-0-0,0-0-0], [10:0-3-6,0-0-9]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	in (loc) l/defl L/d	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(LL) -0.25 10-11 >999 360	GRIP 244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.33	Vert(CT) -0.44 10-11 >999 240	
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Horz(CT) 0.07 10 n/a n/a	
				Wind(LL) 0.05 16 >999 240	Weight: 277 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Left 2x4 SP No.2 5-2-13, Right 2x4 SP No.2 5-2-13	

REACTIONS.	(size) 2=0-3-8, 10=0-3-8
	Max Horz 2=134(LC 8)
	Max Uplift 2=101(LC 12), 10=90(LC 13)
	Max Grav 2=1855(LC 2), 10=1817(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=2990/551, 4-6=2747/572, 6-8=2749/579, 8-10=2991/559
BOT CHORD	2-16=367/2600, 11-16=125/1780, 10-11=355/2550
WEBS	4-16=496/319, 6-16=133/1145, 6-11=133/1149, 8-11=496/321

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 4x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=101.



May 7,2025

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	A02A	FINK	4	1	173271295
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:11:49 2025 Page 1
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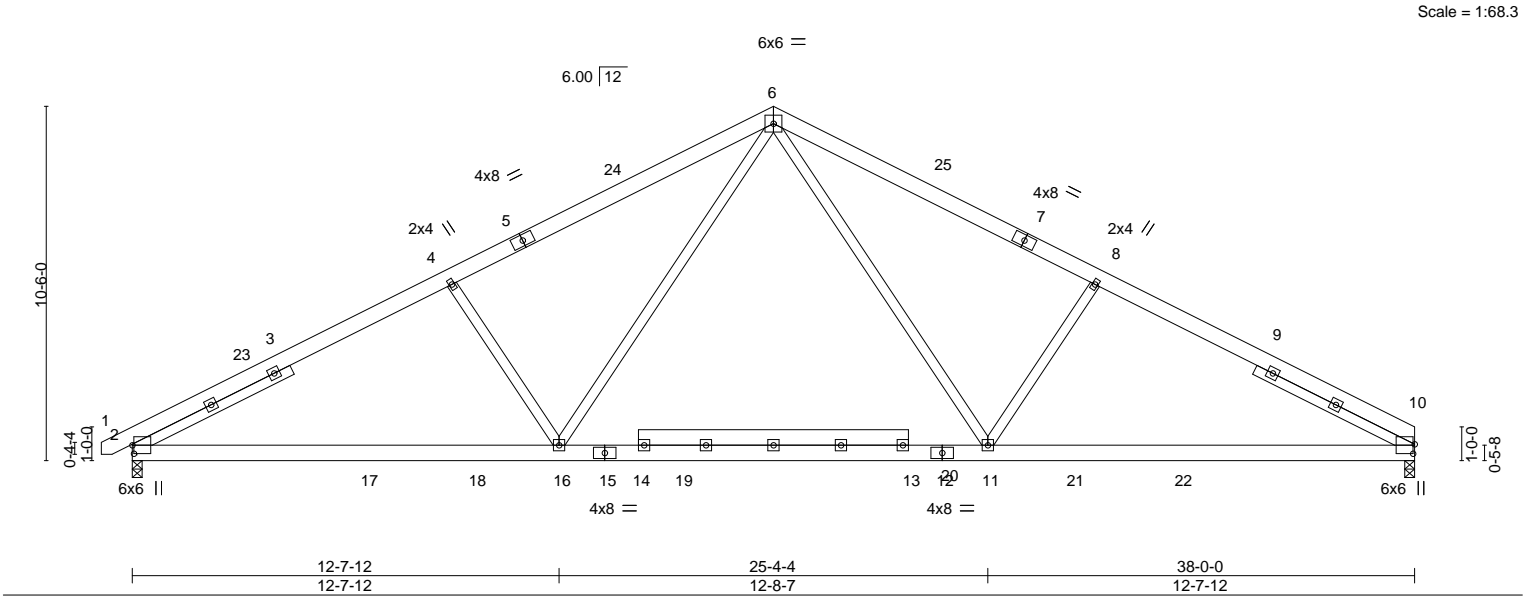


Plate Offsets (X,Y)-- [2:0-3-0,0-0-9], [7:0-0-0,0-0-0], [10:0-3-6,0-0-9]					
LOADING (psf)		SPACING-	CSI.	DEFL.	PLATES
TCLL	20.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20
TCDL	10.0	Plate Grip DOL 1.15	BC 0.77	Vert(LL) -0.25 10-11 >999 360	GRIP 244/190
BCLL	0.0 *	Lumber DOL 1.15	WB 0.33	Vert(CT) -0.44 10-11 >999 240	
BCDL	10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.07 10 n/a n/a	
		Code IRC2021/TPI2014		Wind(LL) 0.05 16 >999 240	Weight: 277 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-1-7 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		
SLIDER	Left 2x4 SP No.2 5-2-13, Right 2x4 SP No.2 5-2-13		

REACTIONS.	(size) 2=0-3-8, 10=0-3-8
	Max Horz 2=134(LC 8)
	Max Uplift 2=101(LC 12), 10=90(LC 13)
	Max Grav 2=1855(LC 2), 10=1817(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=2990/551, 4-6=2747/572, 6-8=2749/579, 8-10=2991/559
BOT CHORD	2-16=367/2600, 11-16=125/1780, 10-11=355/2550
WEBS	4-16=496/319, 6-16=133/1145, 6-11=133/1149, 8-11=496/321

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 4x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=101.



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Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road	173271296
J0525-2415	A03	FINK	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:11:50 2025 Page 1
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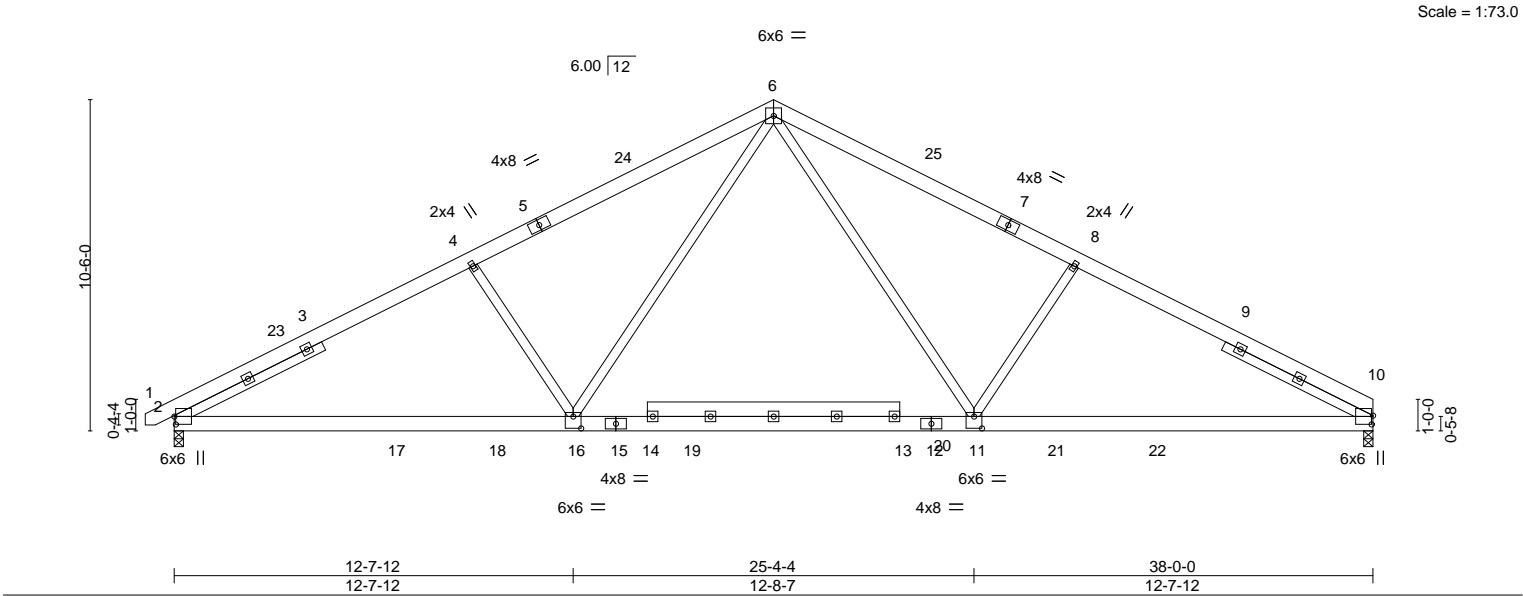


Plate Offsets (X,Y)--		[2:0-3-0,0-0-9], [7:0-0-0,0-0-0], [10:0-3-6,0-0-9], [11:0-3-0,0-4-8], [16:0-3-0,0-4-8]	
LOADING (psf)	SPACING-	2-1-8	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.64
TCDL 10.0	Lumber DOL	1.15	BC 0.90
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.35
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.26 10-11 >999 360
			Vert(CT) -0.46 10-11 >984 240
			Horz(CT) 0.08 10 n/a n/a
			Wind(LL) 0.05 16 >999 240
			PLATES GRIP
			MT20 244/190
			Weight: 277 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Left 2x4 SP No.2 5-2-13, Right 2x4 SP No.2 5-2-13	

REACTIONS.	(size) 2=0-3-8, 10=0-3-8
	Max Horz 2=-142(LC 8)
	Max Uplift 2=-107(LC 12), 10=-96(LC 13)
	Max Grav 2=1971(LC 2), 10=1930(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-3177/585, 4-6=-2919/607, 6-8=-2921/615, 8-10=-3178/594
BOT CHORD	2-16=-390/2763, 11-16=-133/1891, 10-11=-377/2710
WEBS	4-16=-527/339, 6-16=-141/1216, 6-11=-141/1221, 8-11=-527/341

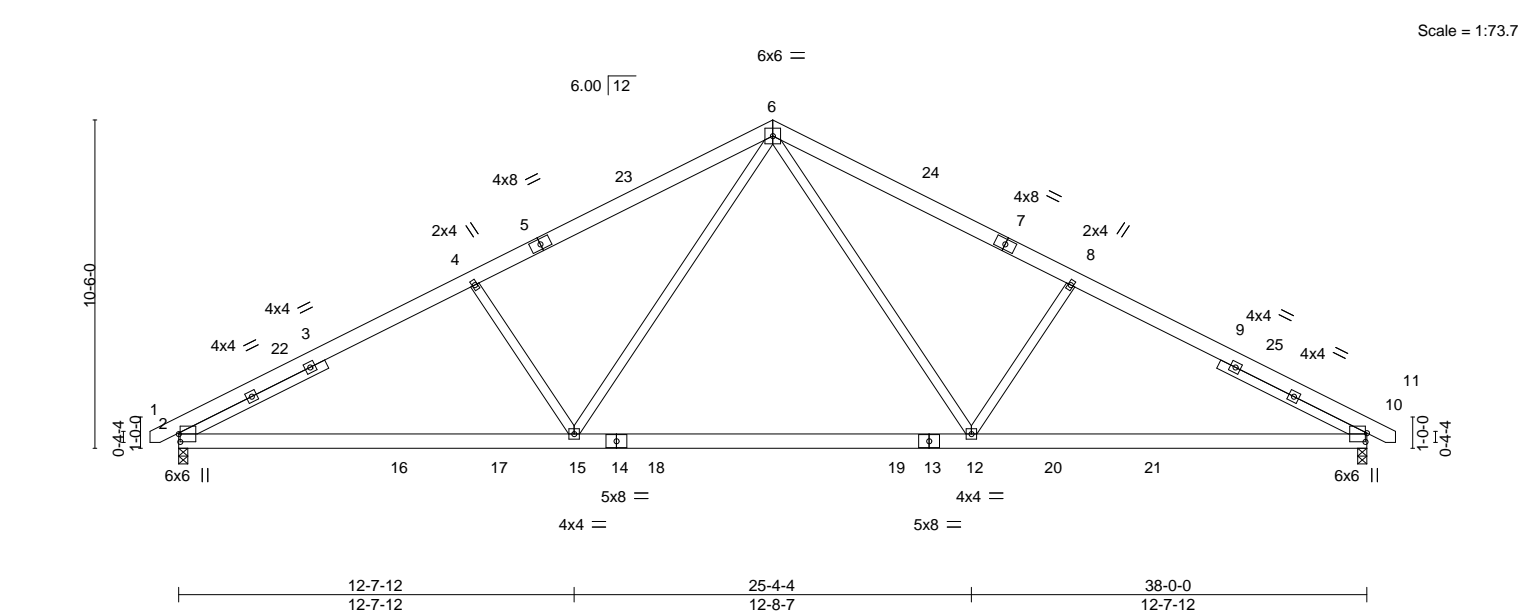
- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-0-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=107.



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Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road	
J0525-2415	A05	FINK	1	1		I73271297
Comtech, Inc., Fayetteville, NC - 28314,						Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:11:50 2025 Page 1
ID:6sEbUEa?UXFISWdGGiityrzsVdl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.33 12-15 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.47 12-15 >976 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.08 10 n/a n/a				
BCDL	10.0	Code IRC2021/TP12014		Matrix-S		Wind(LL)	0.05 12-15 >999 240				
								Weight: 260 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-1-0 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		
SLIDER	Left 2x4 SP No.2 5-2-13, Right 2x4 SP No.2 5-2-13		

REACTIONS.	
(size)	2=0-3-8, 10=0-3-8
Max Horz	2=-132(LC 8)
Max Uplift	2=-101(LC 12), 10=-101(LC 13)
Max Grav	2=1864(LC 2), 10=1864(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-3027/548, 4-6=-2786/569, 6-8=-2786/569, 8-10=-3027/548
BOT CHORD	2-15=-377/2630, 12-15=-135/1802, 10-12=-357/2581
WEBS	4-15=-495/320, 6-15=-131/1166, 6-12=-131/1166, 8-12=-495/320

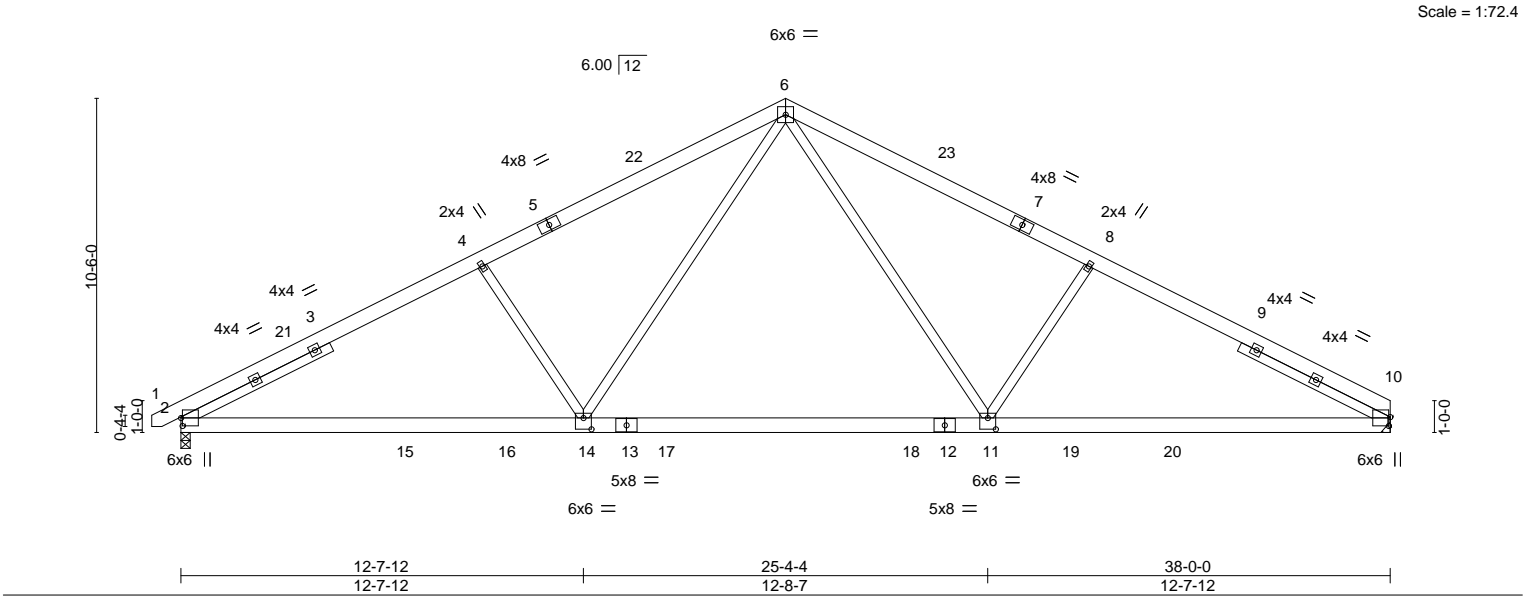
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-9-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=101, 10=101.



May 7, 2025

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	A06	FINK	6	1	173271298
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:11:51 2025 Page 1
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LOADING (psf)		SPACING-		CSL		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.33 11-14 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.46 11-14 >983 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.08 10 n/a n/a				
BCDL	10.0	Code IRC2021/TP12014		Matrix-S		Wind(LL)	0.05 11-14 >999 240				
								Weight: 258 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-0-14 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		
SLIDER	Left 2x4 SP No.2 5-2-13, Right 2x4 SP No.2 5-2-13		

REACTIONS.	
(size)	2=0-3-8, 10=Mechanical
Max Horz	2=-134(LC 8)
Max Uplift	2=-101(LC 12), 10=-90(LC 13)
Max Grav	2=1865(LC 2), 10=1826(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-3028/548, 4-6=-2786/569, 6-8=-2788/576, 8-10=-3028/556
BOT CHORD	2-14=-366/2632, 11-14=-123/1805, 10-11=-353/2582
WEBS	4-14=-495/320, 6-14=-132/1165, 6-11=-132/1168, 8-11=-495/322

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=101.



May 7,2025

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	A07	FINK	1	1	173271299

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:11:51 2025 Page 1

ID:6sEbUEa?UXFISWdGGiityrzsVdl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-0 9-5-10 19-0-0 28-6-6 38-0-0

0-11-0 9-5-10 9-6-6 9-6-6 9-5-10

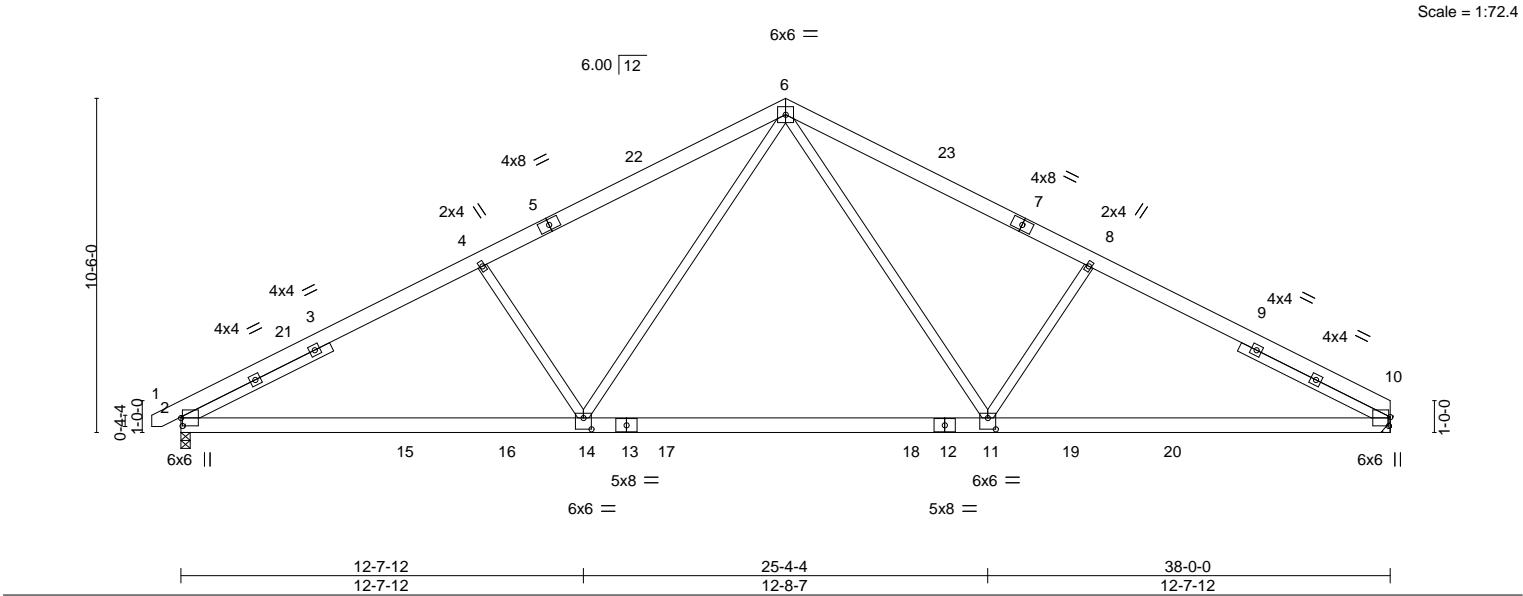


Plate Offsets (X,Y)--		[2:0-3-0,0-0-9], [7:0-0-0,0-0-0], [10:0-3-6,0-0-9], [11:0-3-0,0-4-4], [14:0-3-0,0-4-4]	
LOADING (psf)		SPACING-	CSL.
TCLL	20.0	2-0-0	TC 0.50
TCDL	10.0	Plate Grip DOL 1.15	BC 0.84
BCLL	0.0 *	Lumber DOL 1.15	WB 0.32
BCDL	10.0	Rep Stress Incr YES	Matrix-S
		Code IRC2021/TP12014	
		DEFL.	PLATES
		in (loc) l/defl L/d	MT20
		Vert(LL) -0.33 11-14 >999 360	GRIP 244/190
		Vert(CT) -0.46 11-14 >983 240	
		Horz(CT) 0.08 10 n/a n/a	
		Wind(LL) 0.05 11-14 >999 240	
			Weight: 258 lb FT = 20%

LUMBER-		BRACING-
TOP CHORD	2x6 SP No.1	TOP CHORD
BOT CHORD	2x6 SP No.1	Structural wood sheathing directly applied or 4-0-14 oc purlins.
WEBS	2x4 SP No.2	BOT CHORD
SLIDER	Left 2x4 SP No.2 5-2-13, Right 2x4 SP No.2 5-2-13	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) 2=0-3-8, 10=Mechanical
	Max Horz 2=-134(LC 8)
	Max Uplift 2=-101(LC 12), 10=-90(LC 13)
	Max Grav 2=1865(LC 2), 10=1826(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-3028/548, 4-6=-2786/569, 6-8=-2788/576, 8-10=-3028/556
BOT CHORD	2-14=-366/2632, 11-14=-123/1805, 10-11=-353/2582
WEBS	4-14=-495/320, 6-14=-132/1165, 6-11=-132/1168, 8-11=-495/322

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=101.



May 7,2025

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	B01GE	COMMON SUPPORTED GAB	1	1	I73271300

Comtech, Inc., Fayetteville, NC - 28314,

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ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Job Reference (optional)

0-11-0	10-4-0	20-8-0
0-11-0	10-4-0	10-4-0

Scale = 1:36.9

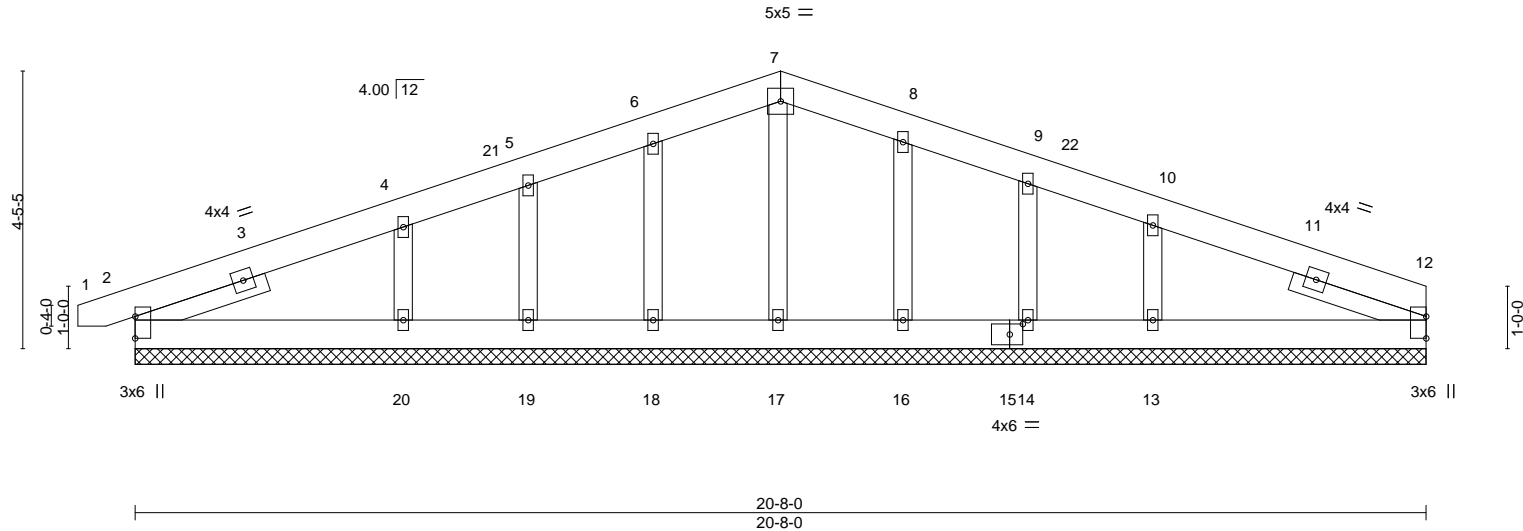


Plate Offsets (X,Y)-- [2:Edge,0-0-0], [12:Edge,0-0-0], [15:0-2-8,0-2-0]									
LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.07	Vert(LL) -0.00		1	n/r	120	MT20 244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.05	Vert(CT) 0.00		1	n/r	120	
BCLL 0.0 *	Rep Stress Incr YES		WB 0.04	Horz(CT) 0.00		12	n/a	n/a	
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 134 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
OTHERS 2x4 SP No.2	
SLIDER Left 2x4 SP No.2 2-2-7, Right 2x4 SP No.2 2-3-0	

REACTIONS. All bearings 20-8-0.
(lb) - Max Horz 2=-86(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 18, 19, 16, 14 except 20=-125(LC 12), 13=-123(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 12, 2, 17, 18, 19, 16, 14 except 20=321(LC 25), 13=334(LC 26)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-8-5 to 3-8-8, Exterior(2N) 3-8-8 to 10-4-0, Corner(3R) 10-4-0 to 14-8-13, Exterior(2N) 14-8-13 to 20-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2'-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 2, 18, 19, 16, 14 except (jt=lb) 20=125, 13=123.



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

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

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	B02	COMMON	3	1	173271301

Comtech, Inc., Fayetteville, NC - 28314,

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ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Job Reference (optional)

0-11-0
0-11-0

10-4-0
10-4-0

20-8-0
10-4-0

Scale = 1:35.3

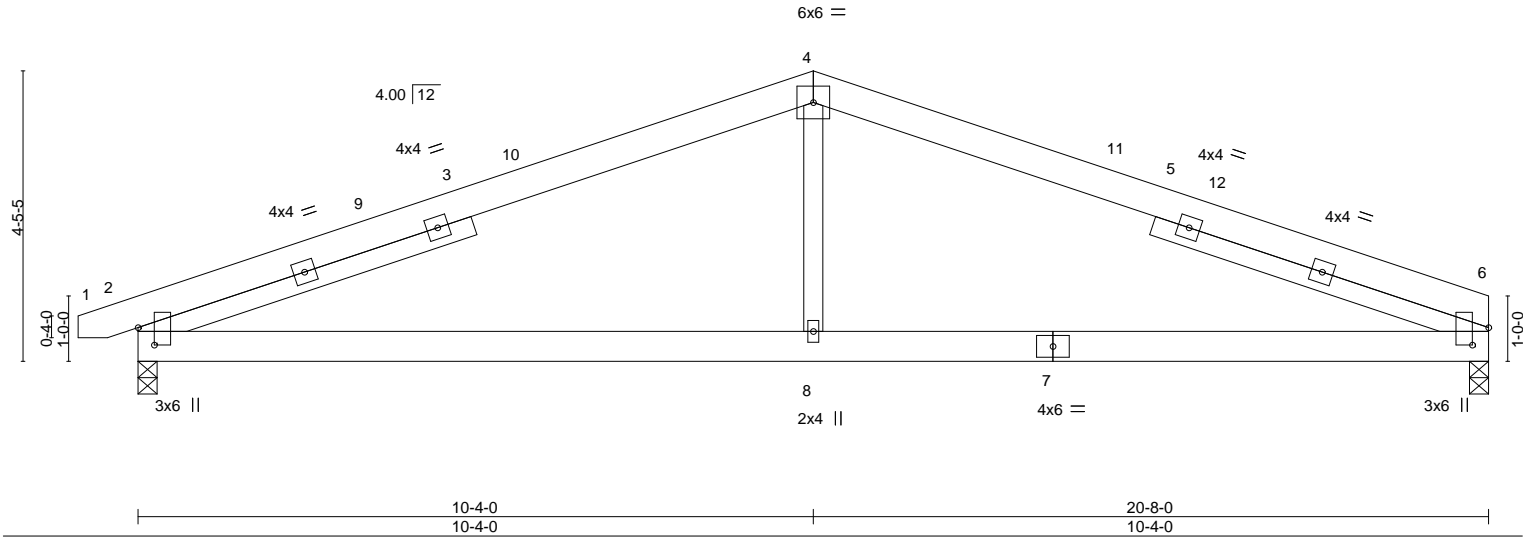


Plate Offsets (X,Y)--		[2:0-3-3,0-3-0], [6:0-3-3,0-3-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.06	6-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.13	6-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-S	Wind(LL)	0.02	2-8	>999	240	Weight: 123 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		
SLIDER	Left 2x4 SP No.2 5-4-10, Right 2x4 SP No.2 5-4-10		

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=-52(LC 17)
Max Uplift 6=-64(LC 9), 2=-90(LC 8)
Max Grav 6=826(LC 1), 2=869(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1386/447, 4-6=-1385/451
BOT CHORD 2-8=-297/1209, 6-8=-297/1209
WEBS 4-8=0/479

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 10-4-0, Exterior(2R) 10-4-0 to 14-8-13, Interior(1) 14-8-13 to 20-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.



May 7,2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road	173271302
J0525-2415	C01GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:11:53 2025 Page 1
ID:twY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?f

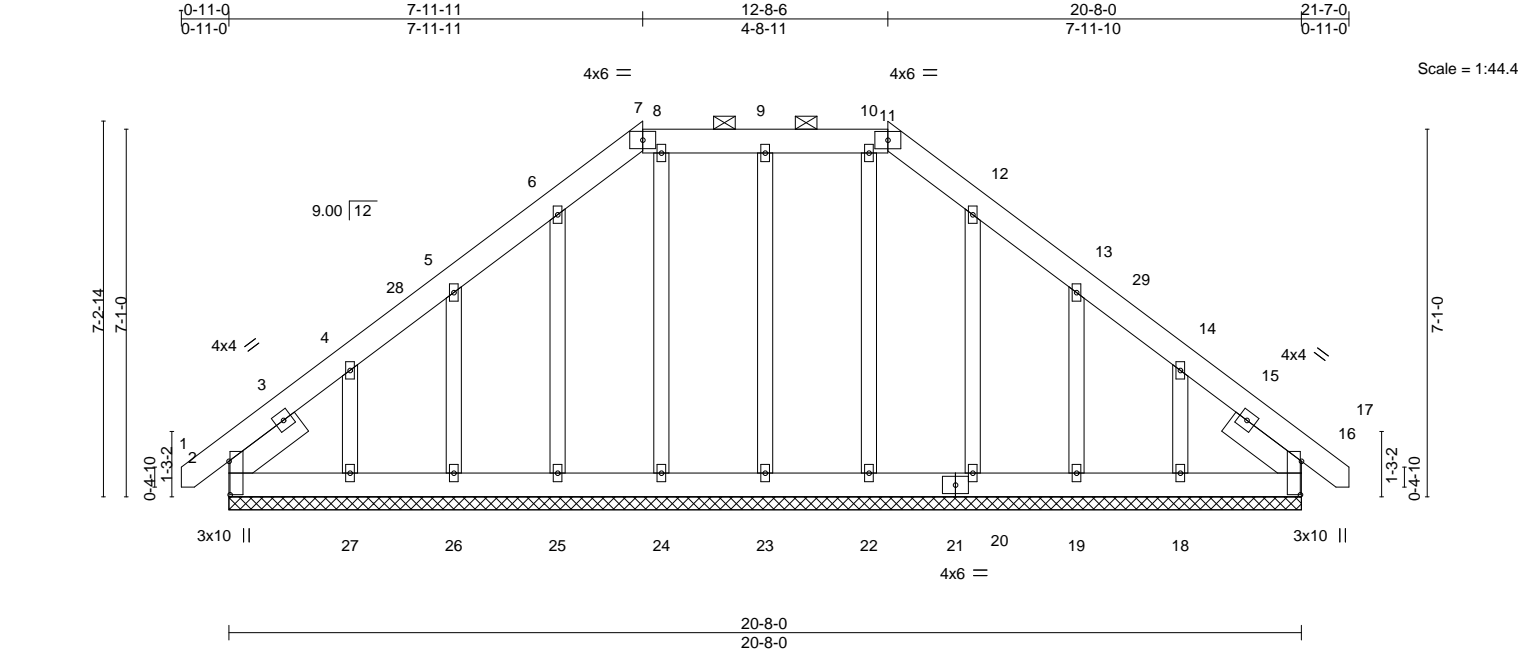


Plate Offsets (X,Y)--		[2:0-7-12,0-0-4], [16:0-7-12,0-0-4]	
LOADING (psf)	SPACING-	2-2-0	CSL.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05
TCDL 10.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.10
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.00 16 n/r 120
			Vert(CT) 0.00 16 n/r 120
			Horz(CT) 0.00 16 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 180 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (6-0-0 max.): 7-11.
OTHERS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x6 SP No.1 1-8-9, Right 2x6 SP No.1 1-8-9	

REACTIONS. All bearings 20-8-0.
(lb) - Max Horz 2=-215(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 24, 25, 26, 20, 16 except 27=-196(LC 12), 19=-103(LC 13),
18=-179(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 23, 24, 25, 26, 22, 20, 19, 18, 16 except 27=256(LC 19)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-8 to 3-7-5, Exterior(2N) 3-7-5 to 7-11-11, Corner(3R) 7-11-11 to 12-4-0, Exterior(2N) 12-4-0 to 12-8-6, Corner(3R) 12-8-6 to 17-1-3, Exterior(2N) 17-1-3 to 21-5-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 23, 24, 25, 26, 20, 16 except (jt=lb) 27=196, 19=103, 18=179.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 7,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road	I73271303
J0525-2415	D01GE	HIP SUPPORTED GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:11:54 2025 Page 1
ID:twY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?f

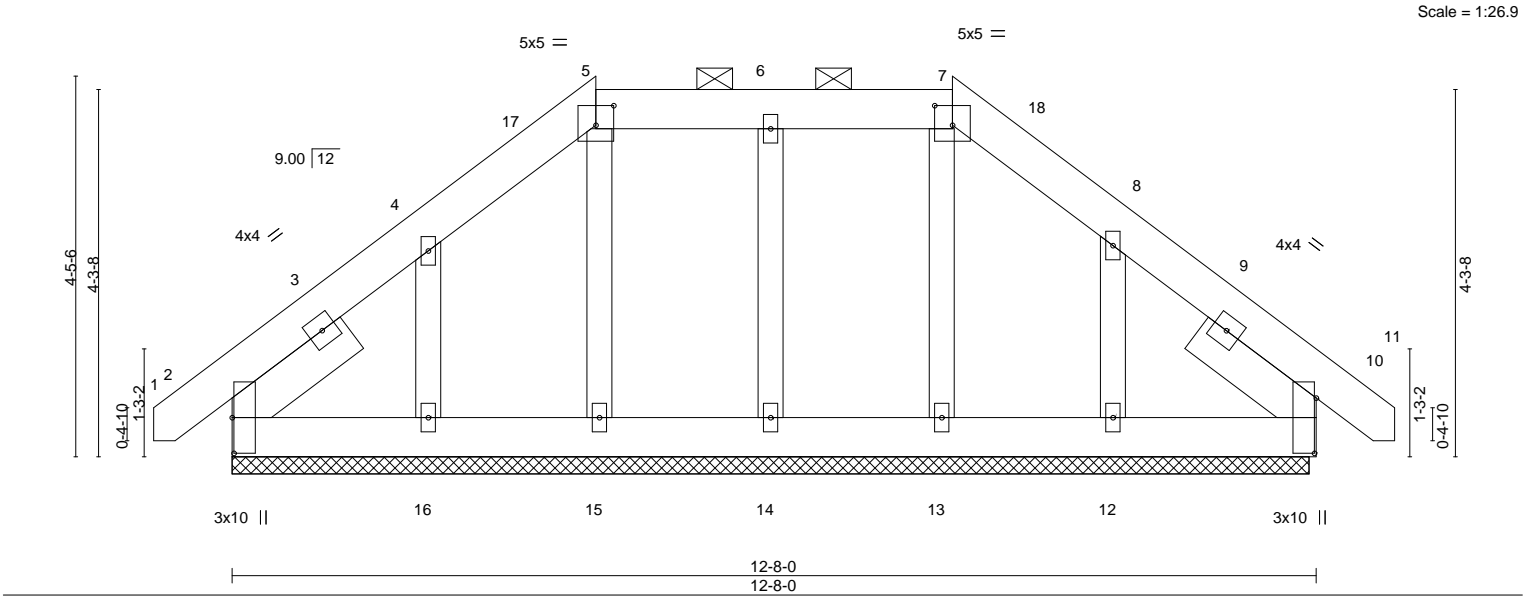


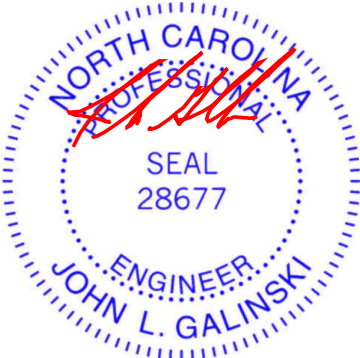
Plate Offsets (X,Y)-- [2:0-5-0,0-0-4], [5:0-2-8,0-2-12], [7:0-2-8,0-2-12], [10:0-7-12,0-0-4]											
LOADING (psf)		SPACING- 2-0-0		CSI.	DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	-0.00	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S						Weight: 100 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (6-0-0 max.): 5-7.
OTHERS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x6 SP No.1 1-8-9, Right 2x6 SP No.1 1-8-9	

REACTIONS. All bearings 12-7-0.
(lb) - Max Horz 2=-115(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 14, 15 except 16=-140(LC 12), 12=-129(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 13, 14, 15, 16, 12

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-8 to 3-7-5, Exterior(2N) 3-7-5 to 4-3-0, Corner(3E) 4-3-0 to 8-5-0, Corner(3R) 8-5-0 to 12-8-0, Exterior(2N) 12-8-0 to 13-5-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 14, 15 except (jt=lb) 16=140, 12=129.
 - Non Standard bearing condition. Review required.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 7,2025

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	D02	COMMON	2	1	173271304

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:11:54 2025 Page 1
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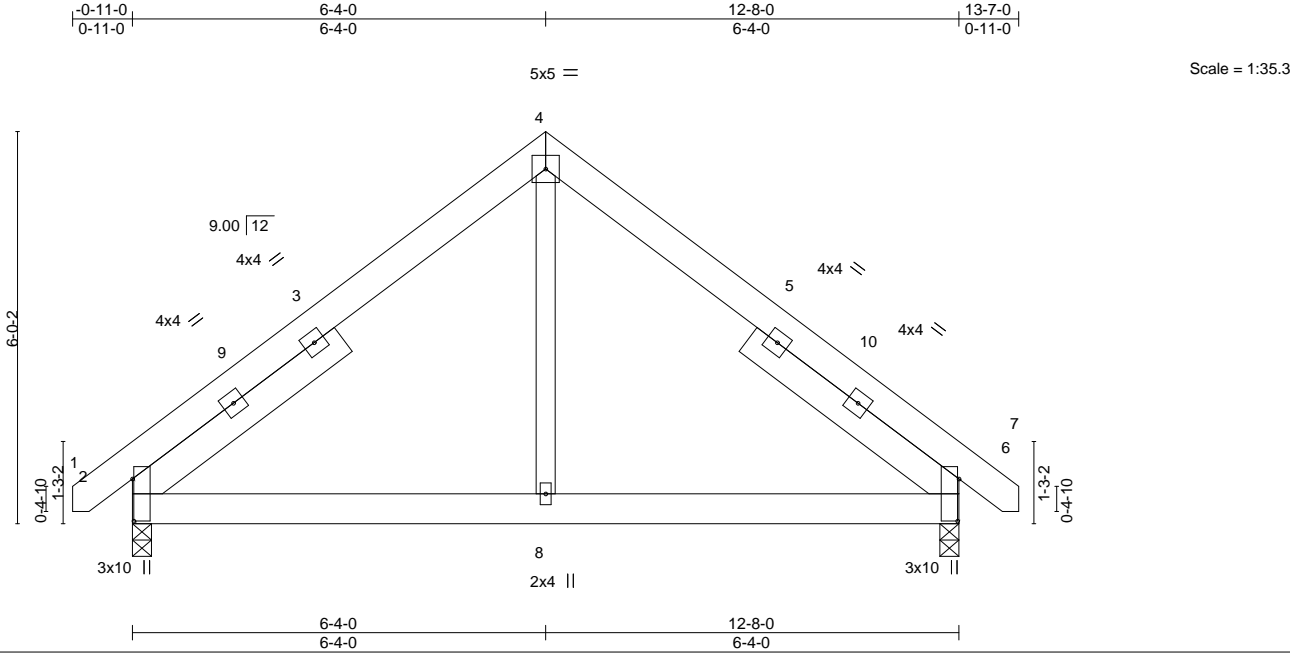


Plate Offsets (X,Y)--		[2:0-7-12,0-0-4], [6:0-7-12,0-0-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15
TCDL 10.0	Lumber DOL	1.15	BC 0.13
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07
BCDL 10.0	Code	IRC2021/TP12014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.01 6-8 >999 360
			Vert(CT) -0.02 6-8 >999 240
			Horz(CT) 0.00 6 n/a n/a
			Wind(LL) 0.01 2-8 >999 240
			PLATES GRIP
			MT20 244/190
			Weight: 99 lb FT = 20%

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

REACTIONS.	(size) 2=0-3-8, 6=0-3-8
	Max Horz 2=131(LC 9)
	Max Uplift 2=-32(LC 12), 6=-32(LC 13)
	Max Grav 2=554(LC 1), 6=554(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-531/194, 4-6=-531/194
BOT CHORD	2-8=-3/336, 6-8=-3/336
WEBS	4-8=0/288

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-8 to 3-7-5, Interior(1) 3-7-5 to 6-4-0, Exterior(2R) 6-4-0 to 10-8-13, Interior(1) 10-8-13 to 13-5-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



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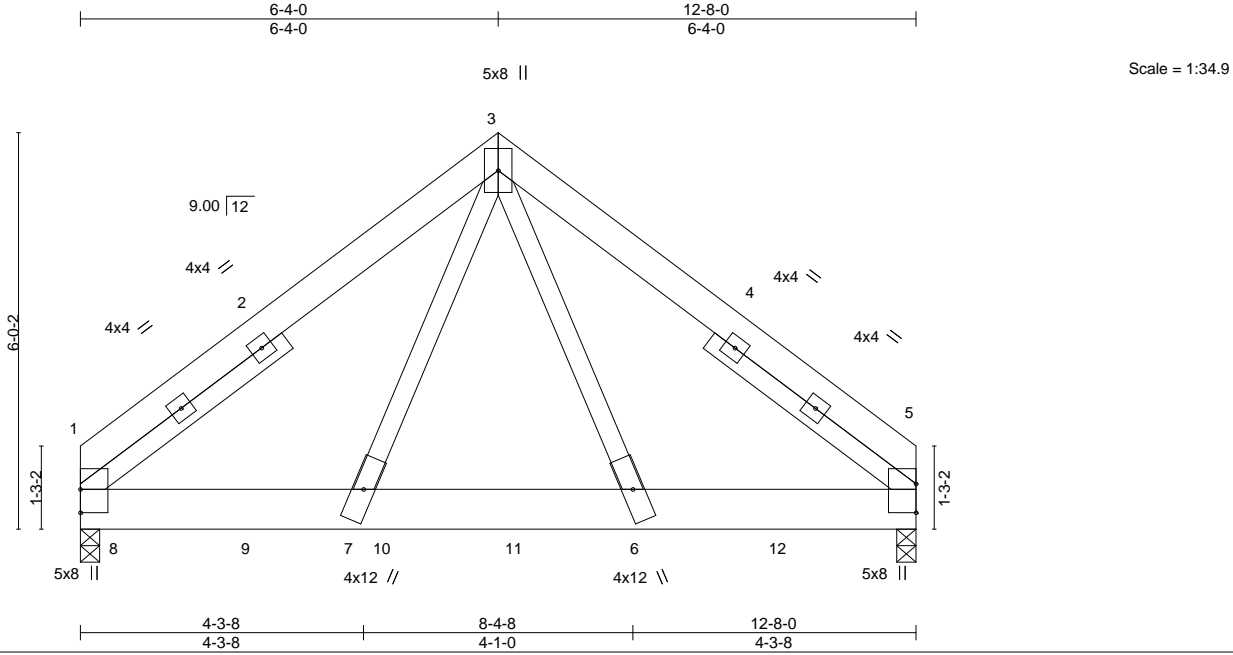
Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	D03-GR	COMMON GIRDER	1	2	173271305

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ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Job Reference (optional)



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.65	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.28	Vert(LL) -0.05 6-7 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.53	Vert(CT) -0.09 6-7 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.02 5 n/a n/a		
	Code IRC2021/TPI2014		Wind(LL) 0.03 6-7 >999 240		
				Weight: 210 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Left 2x4 SP No.2 3-10-6, Right 2x4 SP No.2 3-10-6	

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=-130(LC 27)
Max Uplift 1=-363(LC 8), 5=-293(LC 9)
Max Grav 1=6503(LC 2), 5=5223(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-6478/397, 3-5=-6393/392
BOT CHORD 1-7=-252/4893, 6-7=-165/3288, 5-6=-224/4821
WEBS 3-6=-224/4149, 3-7=-234/4342

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=363, 5=293.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1810 lb down and 106 lb up at 0-7-4, 1806 lb down and 110 lb up at 2-7-4, 1806 lb down and 110 lb up at 4-7-4, 1806 lb down and 110 lb up at 6-7-4, and 1806 lb down and 110 lb up at 8-7-4, and 1806 lb down and 110 lb up at 10-7-4 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: 1-3=-60, 3-5=-60, 1-5=-20



May 7, 2025

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	D03-GR	COMMON GIRDER	1	2	I73271305

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LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 6=-1500(B) 8=-1504(B) 9=-1500(B) 10=-1500(B) 11=-1500(B) 12=-1500(B)



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Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	M01GE	GABLE	1	1	173271306

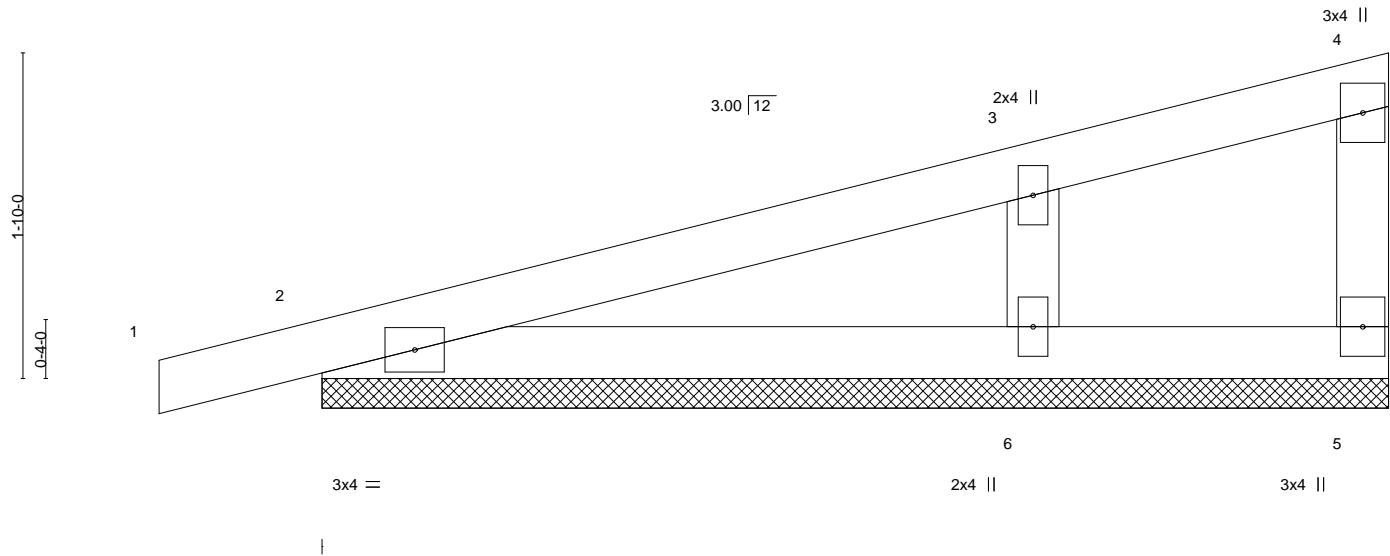
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8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:11:56 2025 Page 1
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-0-11-0
0-11-0

6-0-0
6-0-0

Scale = 1:13.0



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 0.17	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P					Weight: 23 lb	FT = 20%

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

REACTIONS. (size) 5=6-0-0, 2=6-0-0, 6=6-0-0
Max Horz 2=82(LC 8)
Max Uplift 5=-7(LC 8), 2=-78(LC 8), 6=-100(LC 12)
Max Grav 5=14(LC 1), 2=194(LC 1), 6=315(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-233/432

- 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 5-10-4 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) 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, 2, 6.



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Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road	173271307
J0525-2415	M02	Monopitch	6	1	Job Reference (optional)	

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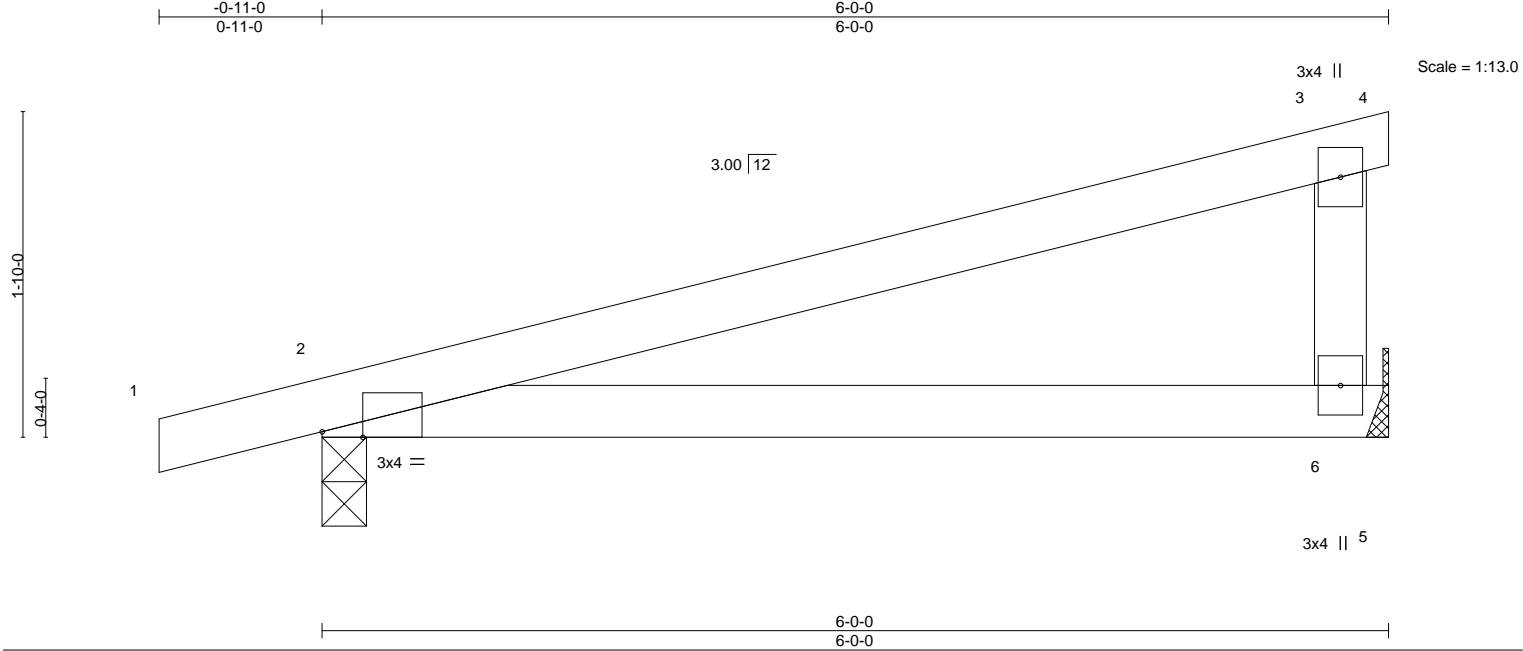


Plate Offsets (X,Y)--		[2:0-2-12,Edge]						
LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.05 2-6	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL 1.15	BC 0.47	Vert(CT) -0.10 2-6	>653	240		
BCLL 0.0 *		Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	n/a	n/a		
BCDL 10.0		Code IRC2021/TPI2014	Matrix-P	Wind(LL) 0.17 2-6	>396	240	Weight: 21 lb	FT = 20%

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

REACTIONS. (size) 6=Mechanical, 2=0-3-0
Max Horz 2=59(LC 8)
Max Uplift 6=-90(LC 8), 2=-121(LC 8)
Max Grav 6=229(LC 1), 2=292(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=121.

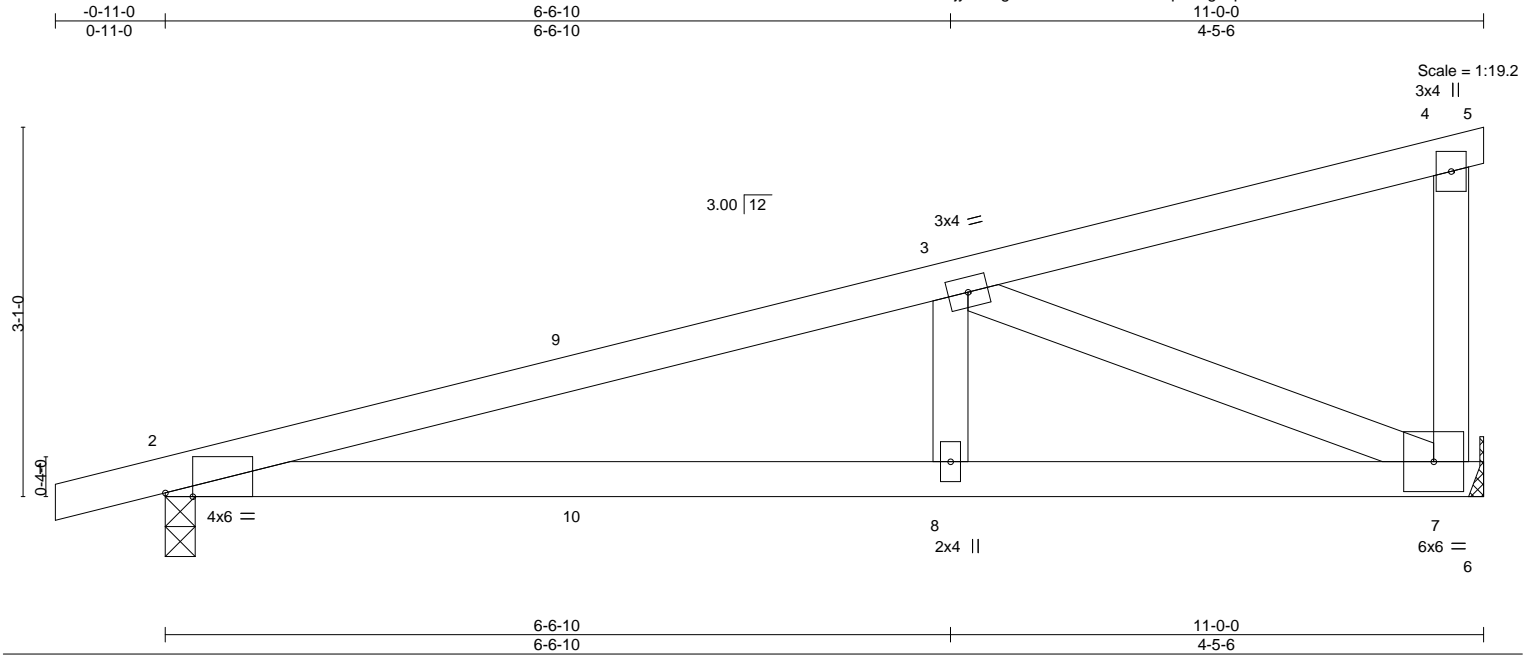


May 7,2025

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	M03	Monopitch	2	1	173271308

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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	0.17	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.11				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	-0.01				
BCDL	10.0	Code	IRC2021/TP12014	Matrix-S							
								Weight: 47 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 5-11-12 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 5-1-6 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS.	
(size)	7=Mechanical, 2=0-3-0
Max Horz	2=100(LC 8)
Max Uplift	7=-174(LC 8), 2=-191(LC 8)
Max Grav	7=432(LC 1), 2=490(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-859/1096
BOT CHORD	2-8=-1174/788, 7-8=-1174/788
WEBS	3-8=-432/256, 3-7=-837/1243

- 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 11-0-0 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) except (jt=lb) 7=174, 2=191.



May 7, 2025

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Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	M04	Roof Special	1	2	173271309

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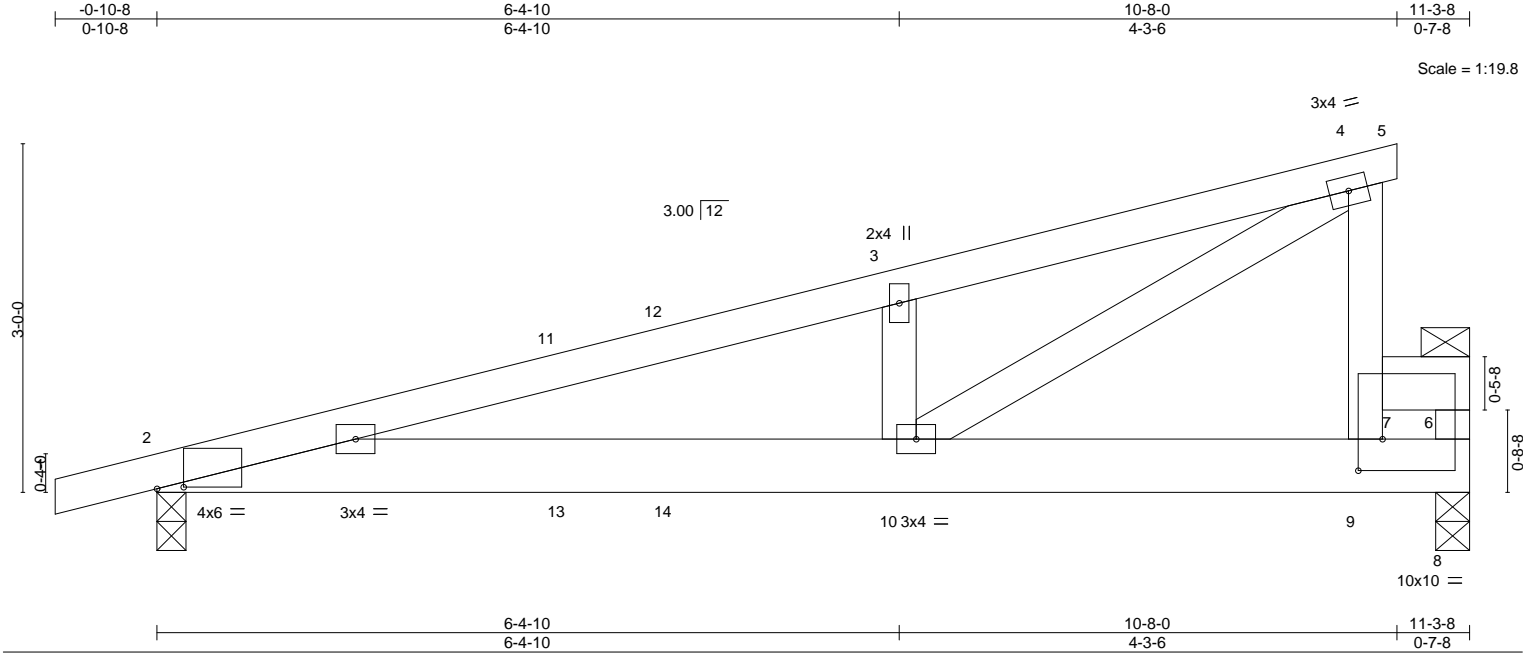


Plate Offsets (X,Y)--		[2:0-2-12,0-0-3], [9:0-2-8,0-3-4]										
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.02	10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.03	2-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.14	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.05	2-10	>999	240	Weight: 116 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
BOT CHORD 2x6 SP No.1	6-0-0 oc bracing: 4-7
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) 2=0-3-0, 8=0-3-8
	Max Horz 2=98(LC 8)
	Max Uplift 2=-207(LC 8), 8=-315(LC 8)
	Max Grav 2=523(LC 1), 8=694(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1032/1651, 3-4=-1020/1740, 7-9=-360/602, 4-7=-386/647
BOT CHORD	2-10=-1728/958, 9-10=-300/147
WEBS	3-10=-325/318, 4-10=-1693/961, 6-8=-341/757

- NOTES-**
- 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 10-8-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=207, 8=315.
 - 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: 1-4=-60, 4-5=-20, 2-8=-20, 6-7=-20
Concentrated Loads (lb)
Vert: 7=-300



May 7, 2025

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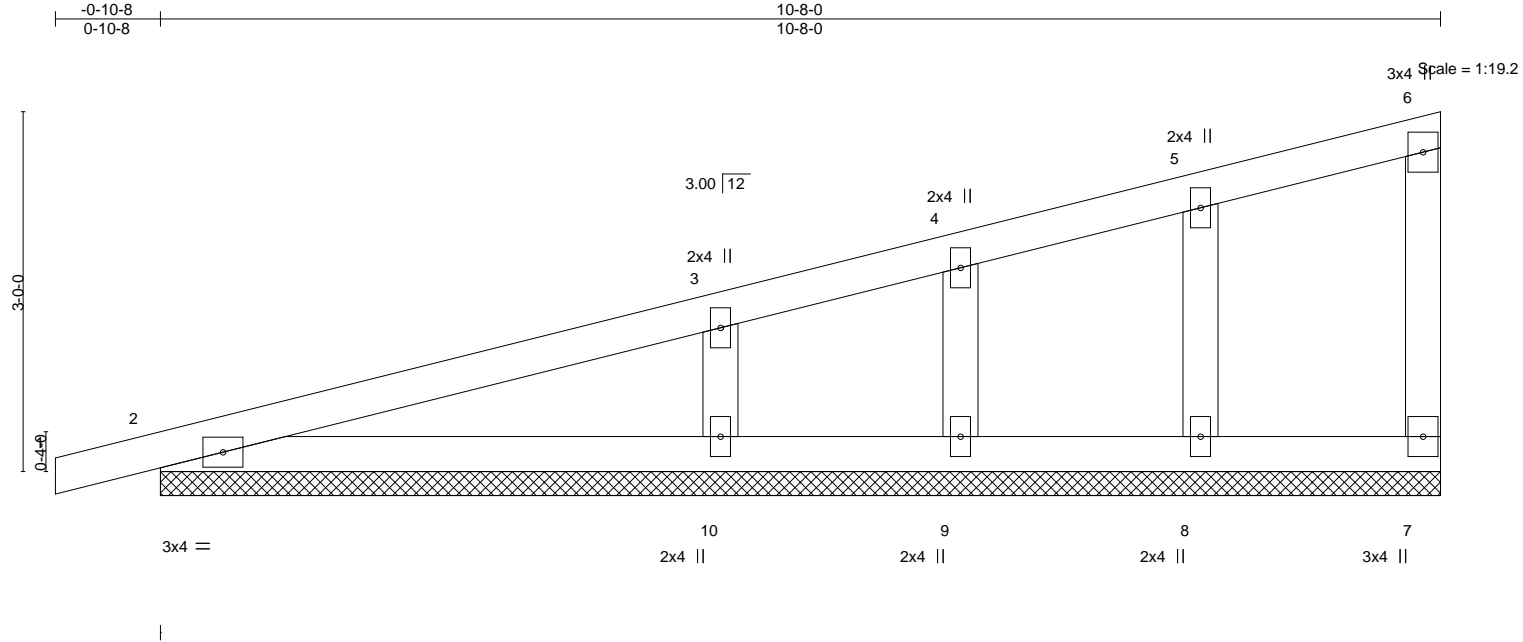
Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	M05GE	GABLE	1	1	Job Reference (optional)

I73271310

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	0.01	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	-0.00	7	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S					Weight: 44 lb	FT = 20%

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

REACTIONS.	All bearings 10-8-0.
(lb) - Max Horz 2=136(LC 8)	
Max Uplift	All uplift 100 lb or less at joint(s) 7, 2, 8, 9 except 10=120(LC 12)
Max Grav	All reactions 250 lb or less at joint(s) 7, 2, 8, 9 except 10=377(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	3-10=268/354

- 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) -0-10-8 to 3-6-5, Exterior(2N) 3-6-5 to 10-6-4 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) 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, 8, 9 except (jt=lb) 10=120.



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Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road	I73271311
J0525-2415	M06GE	GABLE	1	1	Job Reference (optional)	

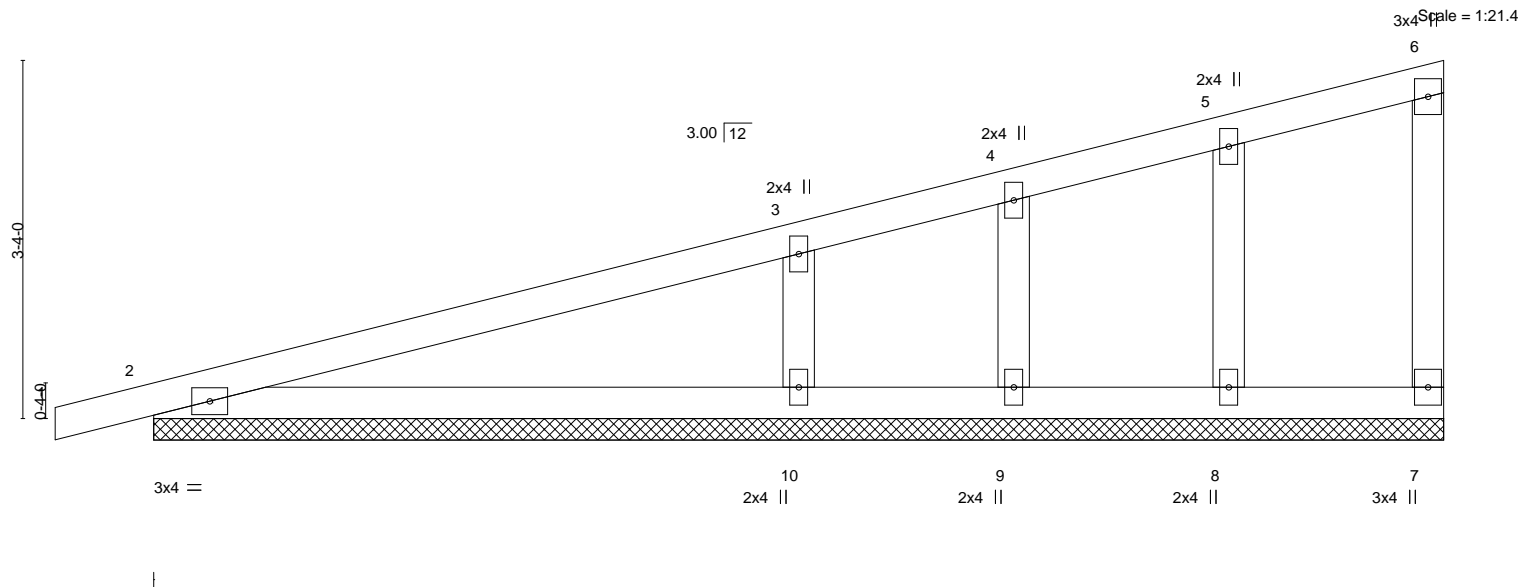
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:11:59 2025 Page 1

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-0-11-0
0-11-0

12-0-0
12-0-0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) -0.01 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(CT) 0.01 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 7 n/a n/a		
	Code IRC2021/TPI2014			Weight: 50 lb	FT = 20%

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

REACTIONS. All bearings 12-0-0.
(lb) - Max Horz 2=153(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8, 9 except 10=165(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 7, 8, 9 except 2=254(LC 1), 10=517(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=365/444

- 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 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) 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, 8, 9 except (jt=lb) 10=165.



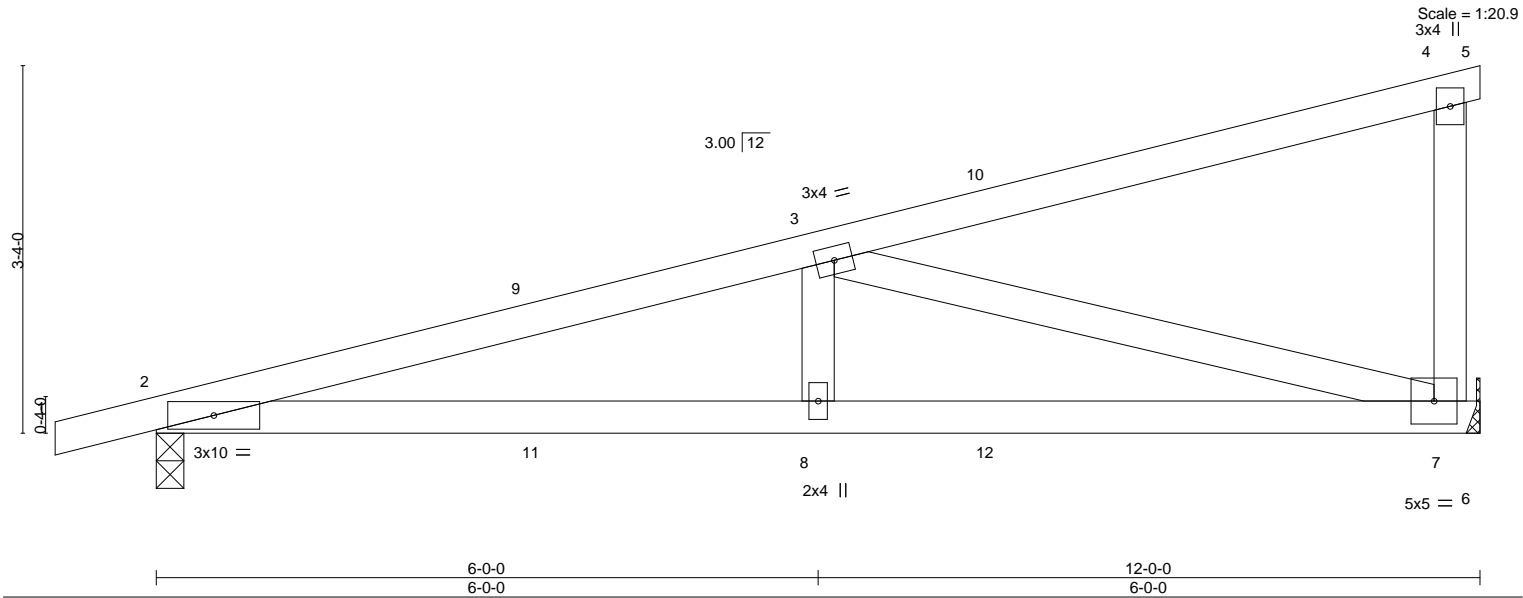
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Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	M07	Monopitch	8	1	173271312

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-0-11-0
0-11-0
6-0-0
6-0-0
12-0-0
6-0-0



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 0.35	Vert(LL)	0.13	2-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.09	2-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.61	Horz(CT)	-0.02	7	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 52 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 4-11-5 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 7=Mechanical, 2=0-3-0
Max Horz 2=108(LC 8)
Max Uplift 7=-191(LC 8), 2=-206(LC 8)
Max Grav 7=472(LC 1), 2=529(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1093/1321
BOT CHORD 2-8=-1401/1020, 7-8=-1401/1020
WEBS 3-8=-414/261, 3-7=-1010/1380

- 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 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) 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) 7=191, 2=206.



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Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road	173271313
J0525-2415	M08GE	GABLE	1	1	Job Reference (optional)	

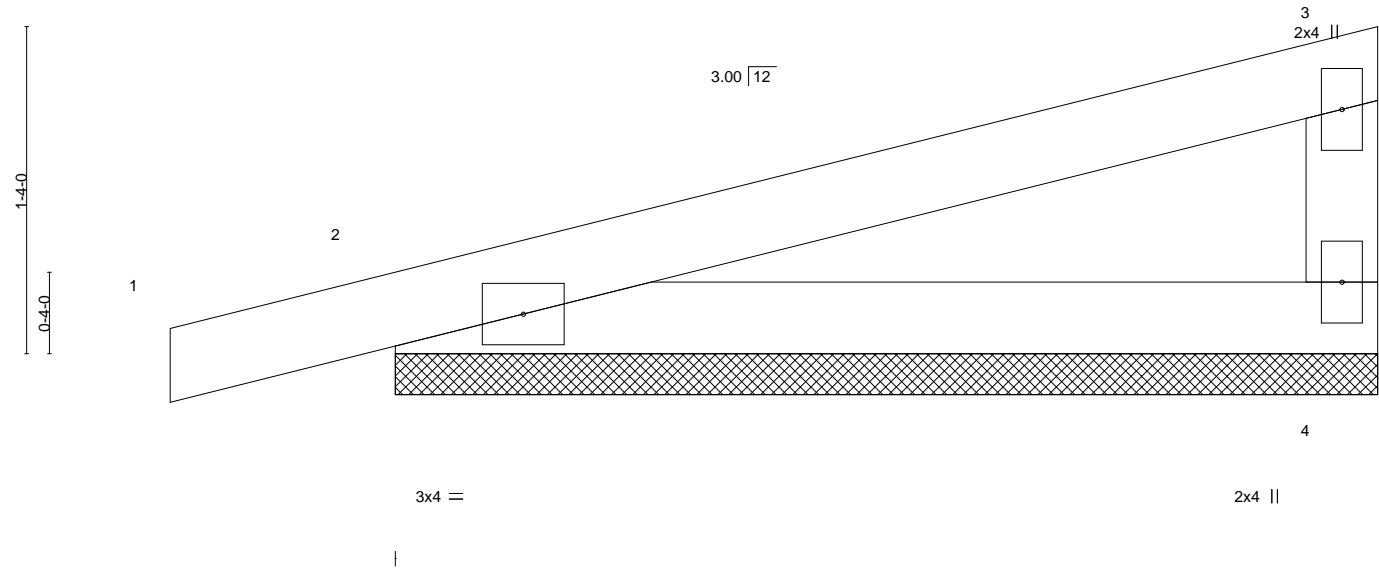
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:11:59 2025 Page 1

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Scale = 1:9.4



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.25	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=4-0-0, 4=4-0-0
Max Horz 2=59(LC 8)
Max Uplift 2=90(LC 8), 4=47(LC 12)
Max Grav 2=216(LC 1), 4=148(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-11-0 to 3-5-13, Exterior(2N) 3-5-13 to 3-10-4 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) 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) 2, 4.



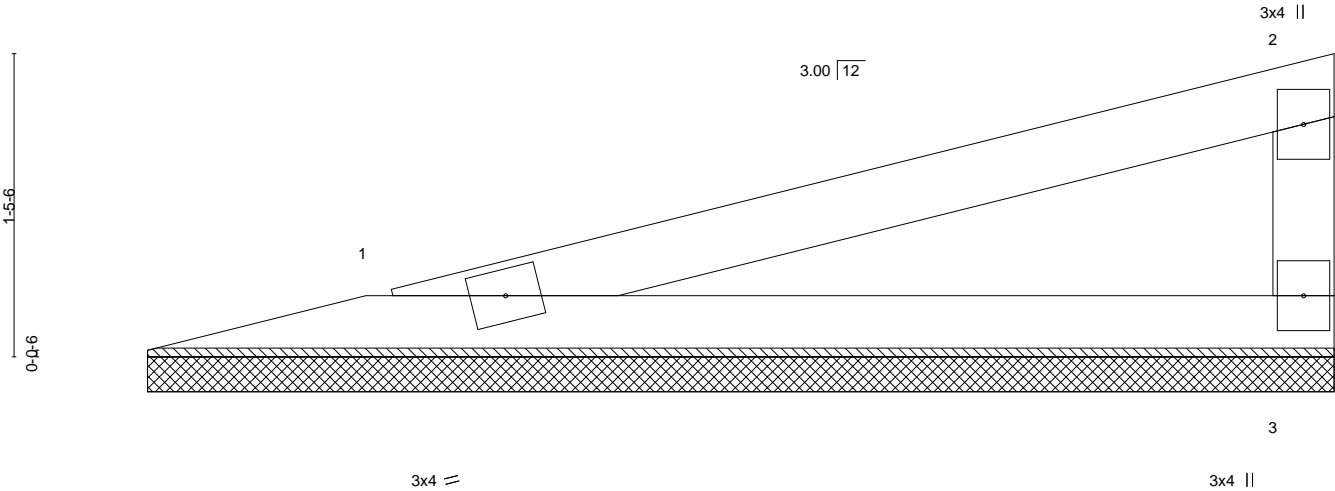
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Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road	173271314
J0525-2415	VB1	Valley	1	1	Job Reference (optional)	

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5-9-7
5-9-7

Scale = 1:11.0



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 0.28	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P					Weight: 17 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-9-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 1=5-7-15, 3=5-7-15
Max Horz 1=36(LC 8)
Max Uplift 1=14(LC 8), 3=23(LC 8)
Max Grav 1=174(LC 1), 3=174(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.



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Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	VB2	Valley	1	1	173271315
Job Reference (optional)					

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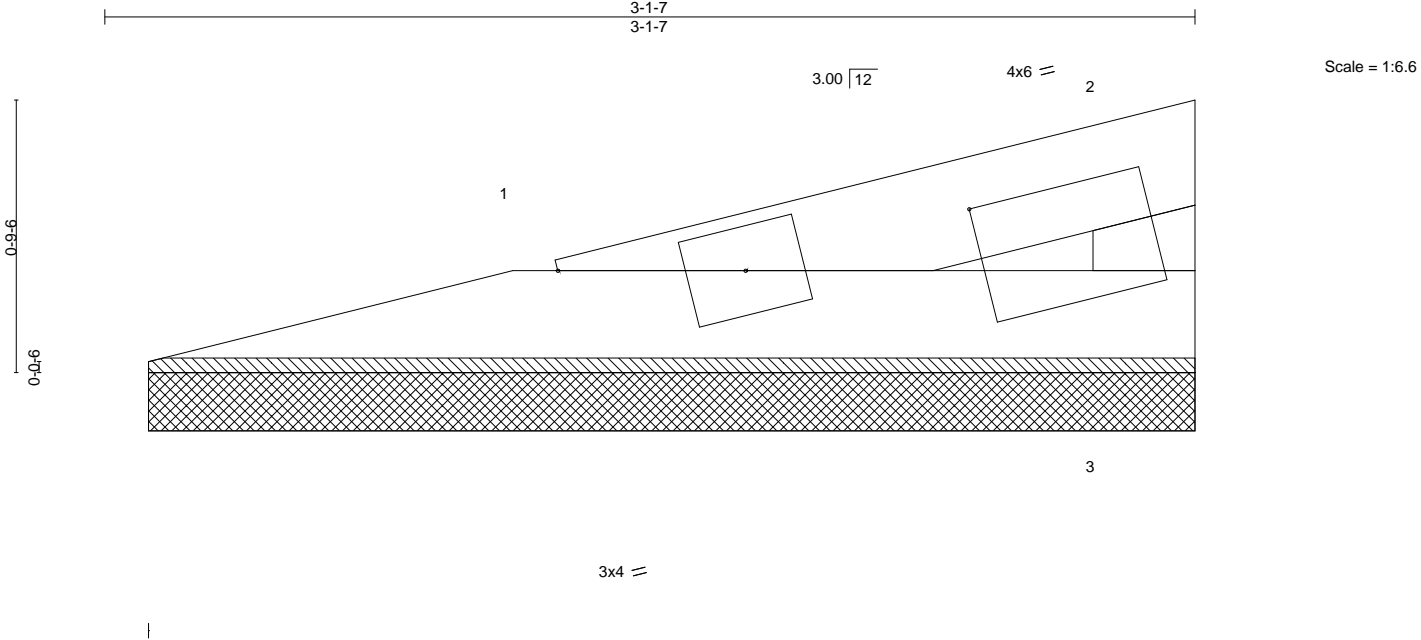


Plate Offsets (X,Y)--		[2:1-2-3,0-1-6]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04
TCDL 10.0	Lumber DOL	1.15	BC 0.02
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-P
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	n/a - n/a 999
		Vert(CT)	n/a - n/a 999
		Horz(CT)	0.00 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 8 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-1-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 1=2-11-15, 3=2-11-15
Max Horz 1=15(LC 8)
Max Uplift 1=5(LC 8), 3=9(LC 8)
Max Grav 1=67(LC 1), 3=67(LC 1)

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

- NOTES-
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.



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Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	VC1	VALLEY	1	1	I73271316

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Job Reference (optional)

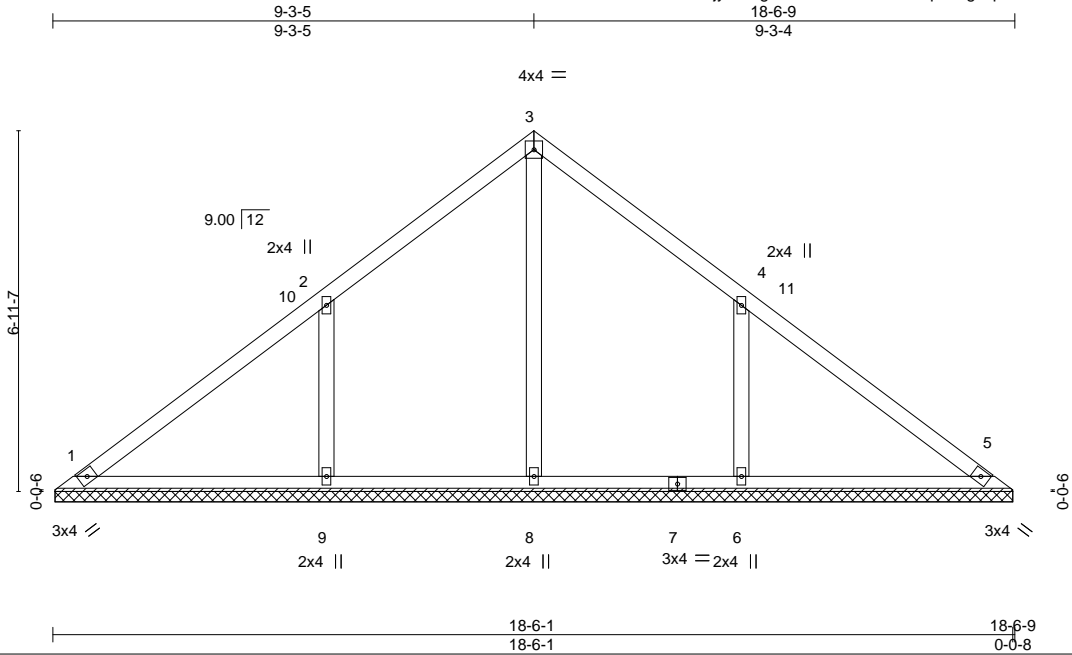


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]		18-6-1		18-6-9	
		18-6-1		0-0-8	
LOADING (psf)		SPACING-		CSI.	
TCLL	20.0	2-2-0	Plate Grip DOL	1.15	TC 0.28
TCDL	10.0	Lumber DOL	1.15	BC 0.20	DEFL.
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.12	in (loc)
BCDL	10.0	Code IRC2021/TP12014	Matrix-S		l/defl
				L/d	PLATES
					GRIP
					MT20
					244/190
					Weight: 80 lb
					FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6'-0-0 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10'-0-0 oc bracing.
OTHERS	2x4 SP No.2		

REACTIONS. All bearings 18-5-9.
(lb) - Max Horz 1=172(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=161(LC 12), 6=161(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=424(LC 22), 9=653(LC 19), 6=653(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-385/285, 4-6=-385/285

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 9-3-5, Exterior(2R) 9-3-5 to 13-8-1, Interior(1) 13-8-1 to 18-1-4 zone:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=161, 6=161.



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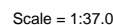
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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LUMBER-		BRACING-
TOP CHORD	2x4 SP No.1	TOP CHORD
BOT CHORD	2x4 SP No.1	Structural wood sheathing directly applied or 6-0-0 oc purlins.
OTHERS	2x4 SP No.2	BOT CHORD
		Rigid ceiling directly applied or 10-0-0 oc bracing.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-302/245. 4-6=-302/245

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WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEL REFERENCE PAGE MIT-TP1-19-169: 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	VC3	Valley	1	1	I73271318

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Job Reference (optional)

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6-9-1

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6

2x4 ||

7

2x4 ||

8

2x4 ||

3x4 //

0-0-8

0-0-8

13-6-1

13-5-9

Scale = 1:30.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 55 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 13-5-1.
 (lb) - Max Horz 1=114(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=110(LC 12), 6=110(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=252(LC 1), 8=332(LC 19), 6=331(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-261/249, 4-6=-261/249

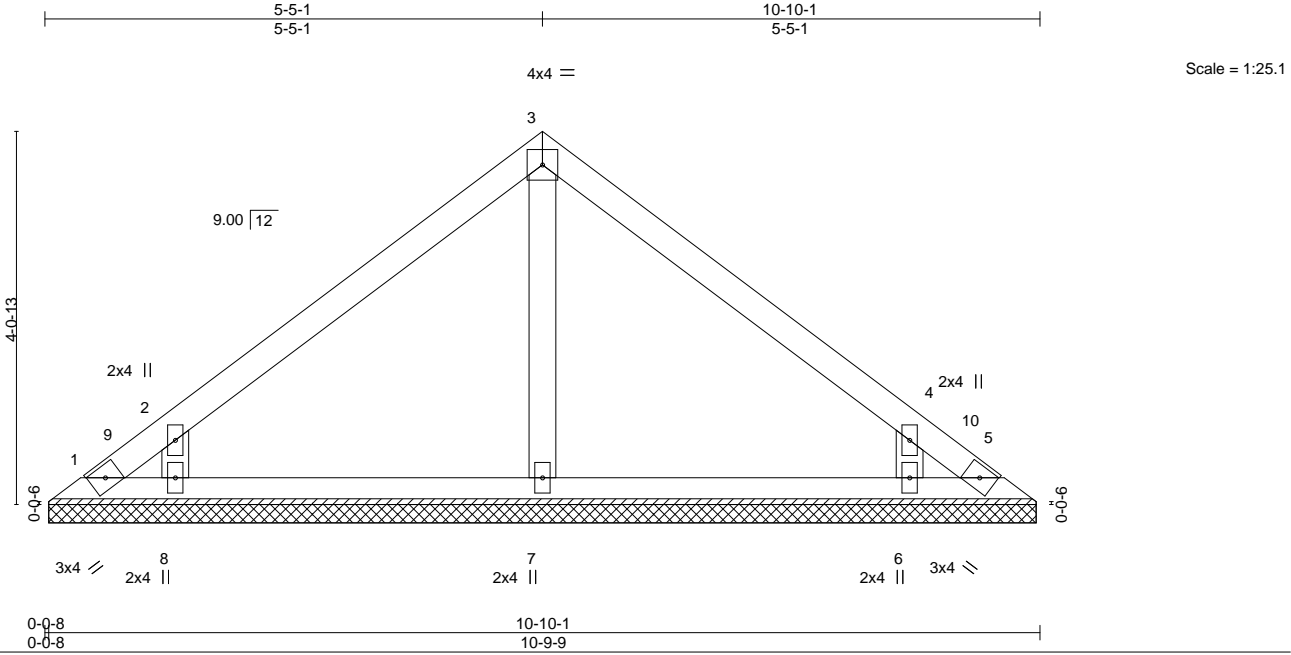
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 6-9-1, Exterior(2R) 6-9-1 to 11-1-13, Interior(1) 11-1-13 to 13-0-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=110, 6=110.



May 7,2025

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	VC4	Valley	1	1	I73271319

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:12:02 2025 Page 1
ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwCDoi7J4zJC?f



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	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 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) n/a	-	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00	5	n/a	n/a			
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S						Weight: 41 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 10-9-1.
(lb) - Max Horz 1=90(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=118(LC 12), 6=118(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)

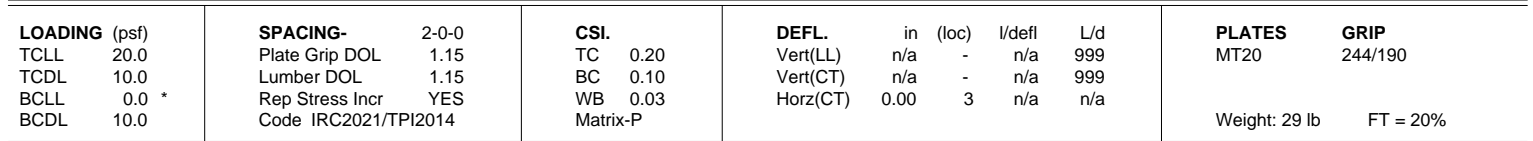
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=285/317, 4-6=285/317

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 5-5-1, Exterior(2R) 5-5-1 to 9-9-13, Interior(1) 9-9-13 to 10-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=118, 6=118.



May 7, 2025

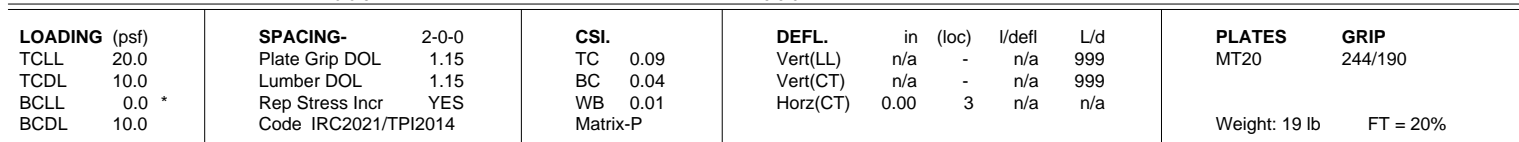
Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:12:03 2025 Page 1
ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTxbGKWrCDoi7J4zJC?f
4-1-1 8-2-1
4-1-1 4-1-1
Scale = 1:21.1



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/TPH 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)

Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:12:04 2025 Page 1
ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCdoi7J4zJC?f
2-9-1 5-6-1
2-9-1 2-9-1
4x4 = Scale = 1:14.8



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

TOP CHORD	Structural wood sheathing directly applied or 5-6-1 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-5-1, 3=5-5-1, 4=5-5-1
 Max Horz 1=42(LC 9)
 Max Uplift 1=-16(LC 12), 3=-20(LC 13)
 Max Grav 1=104(LC 1), 3=104(LC 1), 4=162(LC 1)

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

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



May 7, 2025



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



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	VC7	Valley	1	1	173271322
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:12:04 2025 Page 1
ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

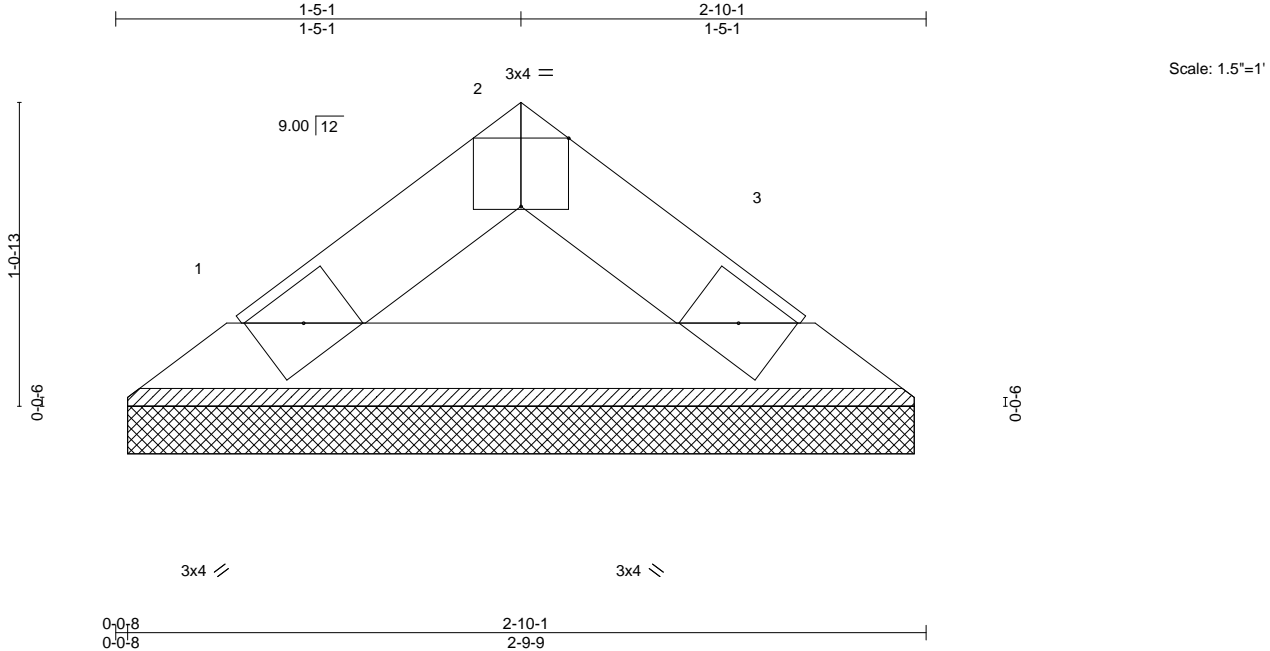


Plate Offsets (X,Y)-- [2:0-2:0,Edge]											
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a - n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a - n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 3 n/a	n/a			
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P					Weight: 8 lb	FT = 20%	

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

REACTIONS. (size) 1=2-9-1, 3=2-9-1
Max Horz 1=18(LC 9)
Max Uplift 1=-4(LC 12), 3=-4(LC 13)
Max Grav 1=78(LC 1), 3=78(LC 1)

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

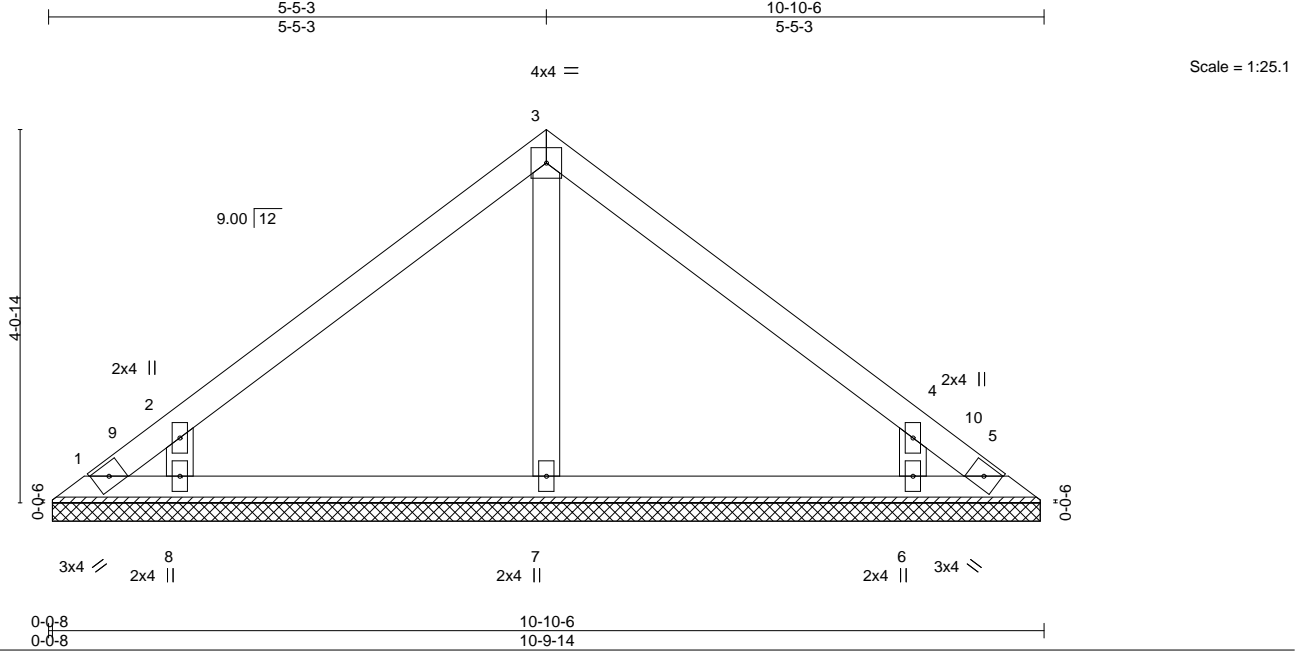
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber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



May 7,2025

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	VD1	Valley	1	1	I73271323

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:12:05 2025 Page 1
ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwRCDoi7J4zJC?f



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						Weight: 41 lb	FT = 20%
	Code IRC2021/TPI2014								

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 10-9-6.
(lb) - Max Horz 1=90(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=117(LC 12), 6=117(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=342(LC 19), 6=342(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-284/315, 4-6=-284/315

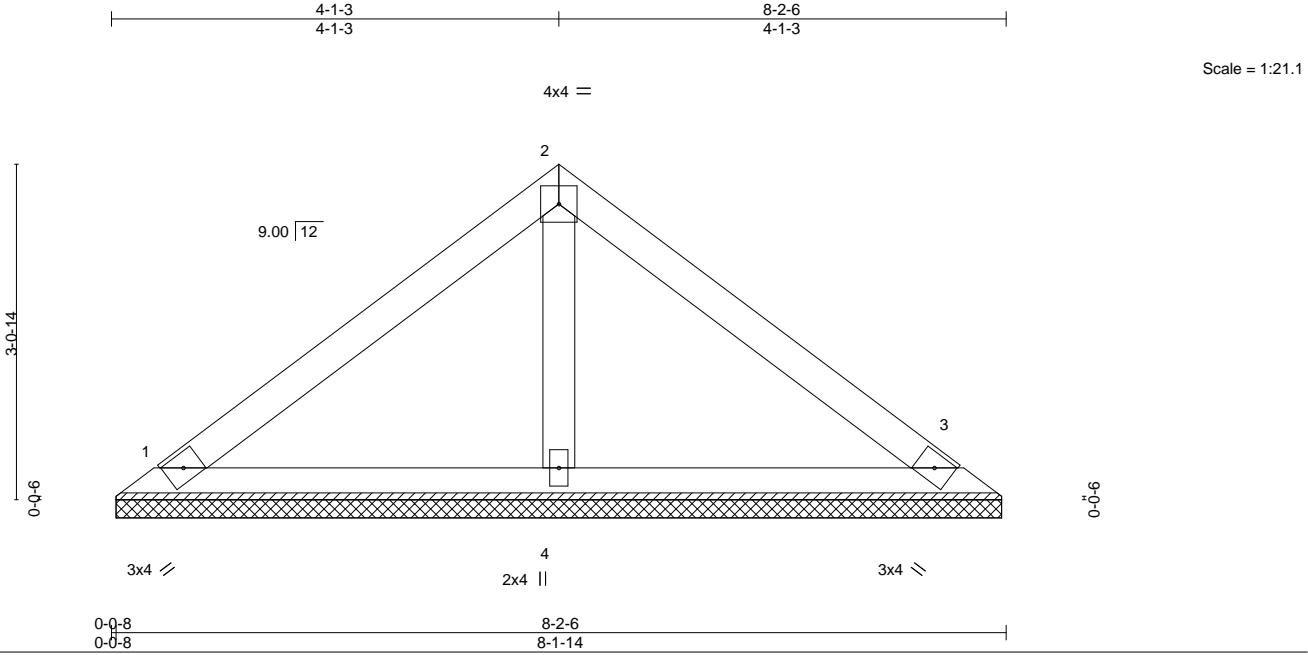
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 5-5-3, Exterior(2R) 5-5-3 to 9-10-0, Interior(1) 9-10-0 to 10-5-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=117, 6=117.



May 7, 2025

Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	VD2	Valley	1	1	I73271324

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:12:05 2025 Page 1
ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 29 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=8-1-6, 3=8-1-6, 4=8-1-6
Max Horz 1=-66(LC 8)
Max Uplift 1=-25(LC 12), 3=-32(LC 13)
Max Grav 1=164(LC 1), 3=164(LC 1), 4=257(LC 1)

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

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



May 7,2025

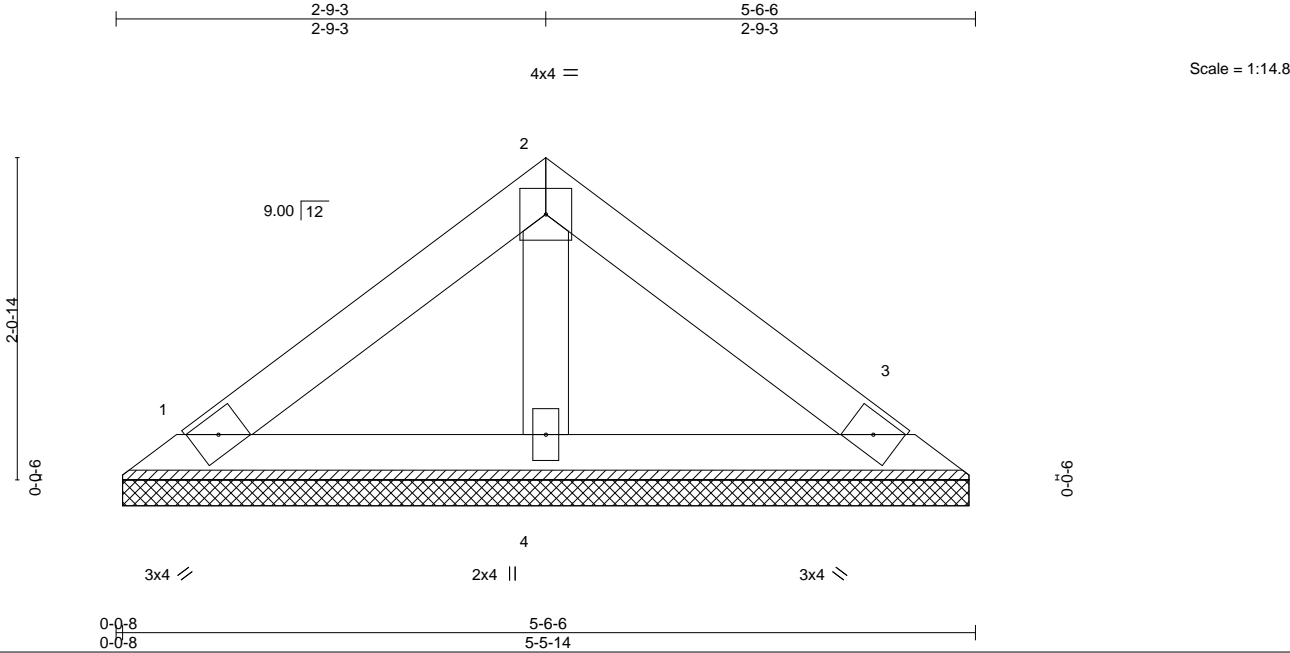
Job	Truss	Truss Type	Qty	Ply	Lot 194 Ballard Road
J0525-2415	VD3	Valley	1	1	I73271325

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue May 6 12:12:06 2025 Page 1

ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Job Reference (optional)



LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.09		Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04		Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01		Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P							Weight: 19 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 5-6-6 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		

REACTIONS. (size) 1=5-5-6, 3=5-5-6, 4=5-5-6
Max Horz 1=42(LC 8)
Max Uplift 1=16(LC 12), 3=20(LC 13)
Max Grav 1=104(LC 1), 3=104(LC 1), 4=163(LC 1)

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

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



May 7,2025

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING

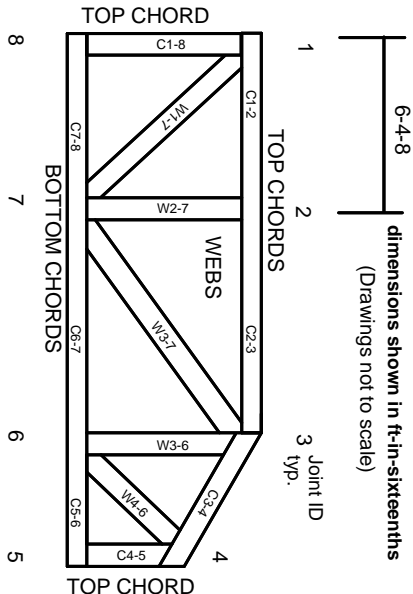


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

MITek

ENGINEERING BY
TRENCO
A MITek Affiliate

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