ENGINEERING BY TRENCO
A MiTek Affiliate

RE: 4619364
JSJ Builders

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: JSJ Builders Project Name: 4619364
Lot/Block: 34 Model: Cypress Prime A
Address: Subdivision: ILAS WAY
City: Dunn State: NC

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 52 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I73111721	A01	4/30/2025	21	I73111741	C02	4/30/2025
2	I73111722	A02	4/30/2025	22	I73111742	C03	4/30/2025
3	I73111723	A03	4/30/2025	23	I73111743	C04	4/30/2025
4	I73111724	A04	4/30/2025	24	I73111744	C05	4/30/2025
5	I73111725	A05	4/30/2025	25	I73111745	C06	4/30/2025
6	I73111726	A06	4/30/2025	26	I73111746	CJ1	4/30/2025
7	I73111727	A07	4/30/2025	27	I73111747	D01	4/30/2025
8	I73111728	A08	4/30/2025	28	I73111748	D02	4/30/2025
9	I73111729	A09	4/30/2025	29	I73111749	E01	4/30/2025
10	I73111730	A10	4/30/2025	30	I73111750	E02	4/30/2025
11	I73111731	A11	4/30/2025	31	I73111751	E03	4/30/2025
12	I73111732	A12	4/30/2025	32	I73111752	JA1	4/30/2025
13	I73111733	A13	4/30/2025	33	I73111753	JB1	4/30/2025
14	I73111734	B01	4/30/2025	34	I73111754	JB2	4/30/2025
15	I73111735	B02	4/30/2025	35	I73111755	JB3	4/30/2025
16	I73111736	B03	4/30/2025	36	I73111756	V01	4/30/2025
17	I73111737	B04	4/30/2025	37	I73111757	V02	4/30/2025
18	I73111738	B05	4/30/2025	38	I73111758	V03	4/30/2025
19	I73111739	B06	4/30/2025	39	I73111759	V04	4/30/2025
20	I73111740	C01	4/30/2025	40	I73111760	V05	4/30/2025

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Galinski, John
My license renewal date for the state of North Carolina is December 31, 2025.
North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.

April 30, 2025

Galinski, John

ENGINEERING BY TRENCO
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Trenco
818 Soundside Rd
Edenton, NC 27932

RE: 4619364 - JSJ Builders

Site Information:

Project Customer: JSJ Builders Project Name: 4619364
Lot/Block: 34 Subdivision: ILAS WAY
Address:
City, County: Dunn State: NC

No.	Seal#	Truss Name	Date
41	I73111761	V06	4/30/2025
42	I73111762	V07	4/30/2025
43	I73111763	V08	4/30/2025
44	I73111764	V09	4/30/2025
45	I73111765	V10	4/30/2025
46	I73111766	V11	4/30/2025
47	I73111767	VA1	4/30/2025
48	I73111768	VA2	4/30/2025
49	I73111769	VA3	4/30/2025
50	I73111770	VA4	4/30/2025
51	I73111771	VA5	4/30/2025
52	I73111772	VA6	4/30/2025

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	A01	Flat Girder	1	2	I73111721 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:22:55 Page: 1
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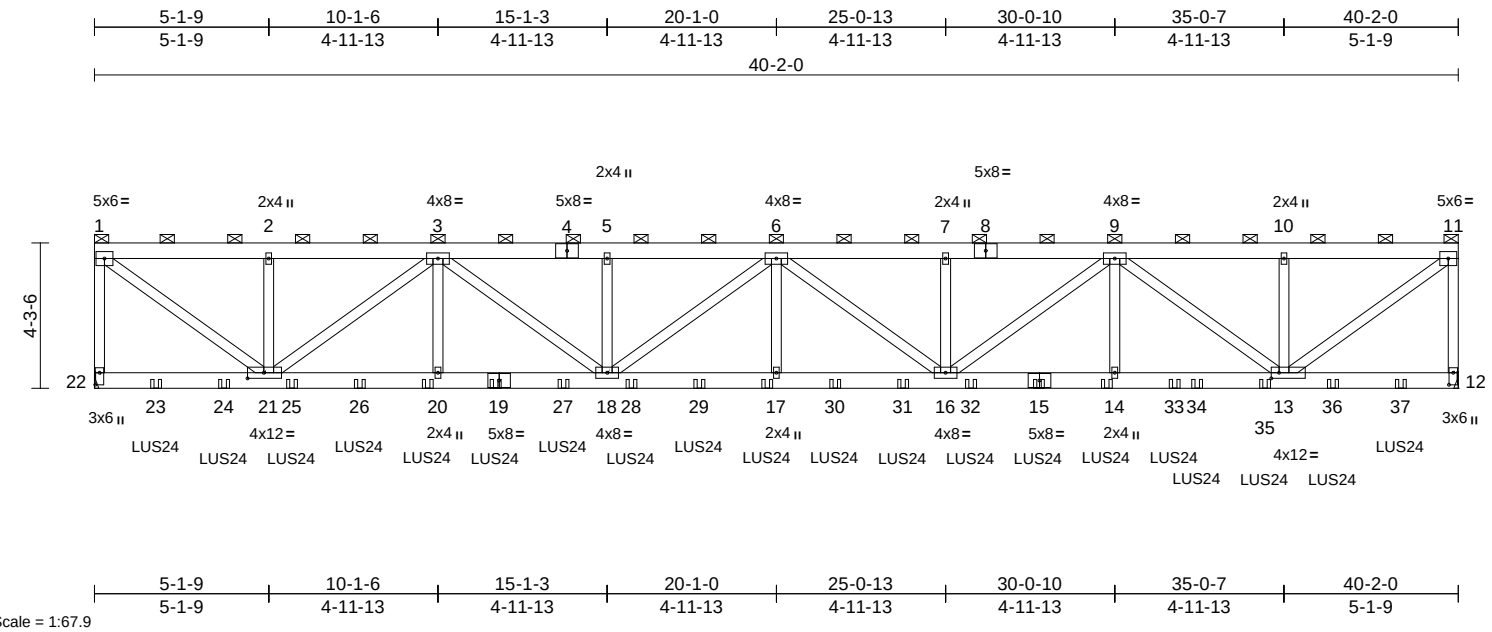

Scale = 1:67.9

Plate Offsets (X, Y): [12:0-4-4,0-1-8], [13:0-2-12,0-2-0], [21:0-5-12,0-2-0], [22:0-4-4,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.24	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.46	16-17	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.09	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.42	16-17	>999	240	Weight: 603 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS 2x4 SP No.2

BRACING
TOP CHORD 2-0-0 oc purlins (5-3-13 max.): 1-11, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-10-5 oc bracing.

REACTIONS (size) 12= Mechanical, 22= Mechanical
Max Uplift 12=-2172 (LC 4), 22=-2091 (LC 4)
Max Grav 12=3435 (LC 1), 22=3343 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-3143/1984, 1-2=-3943/2483, 2-3=-3943/2483, 3-5=-8397/5300, 5-6=-8397/5300, 6-7=-8458/5353, 7-9=-8458/5353, 9-10=-4063/2588, 10-11=-4063/2588, 11-12=-3236/2065
BOT CHORD 21-22=-23/36, 20-21=-4248/6736, 18-20=-4248/6736, 17-18=-5691/9006, 16-17=-5691/9006, 14-16=-4374/6880, 13-14=-4374/6880, 12-13=-23/36
WEBS 1-21=-3100/4923, 2-21=-299/231, 3-21=-3520/2224, 3-20=-337/625, 3-18=-1326/2093, 5-18=-273/206, 6-18=-767/493, 6-17=-343/638, 6-16=-690/426, 7-16=-273/205, 9-16=-1234/1988, 9-14=-409/723, 9-13=-3550/2250, 10-13=-298/232, 11-13=-3232/5074

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2091 lb uplift at joint 22 and 2172 lb uplift at joint 12.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-12 from the left end to 38-5-12 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-11=-60, 12-22=-20
Concentrated Loads (lb)
Vert: 20=-179 (F), 17=-179 (F), 14=-179 (F), 19=-179 (F), 15=-179 (F), 23=-179 (F), 24=-179 (F), 25=-179 (F), 26=-179 (F), 27=-179 (F), 28=-179 (F), 29=-179 (F), 30=-179 (F), 31=-179 (F), 32=-179 (F), 33=-179 (F), 34=-179 (F), 35=-179 (F), 36=-179 (F), 37=-179 (F)

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	A02	Hip	1	1	I73111722 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:22:57 Page: 1
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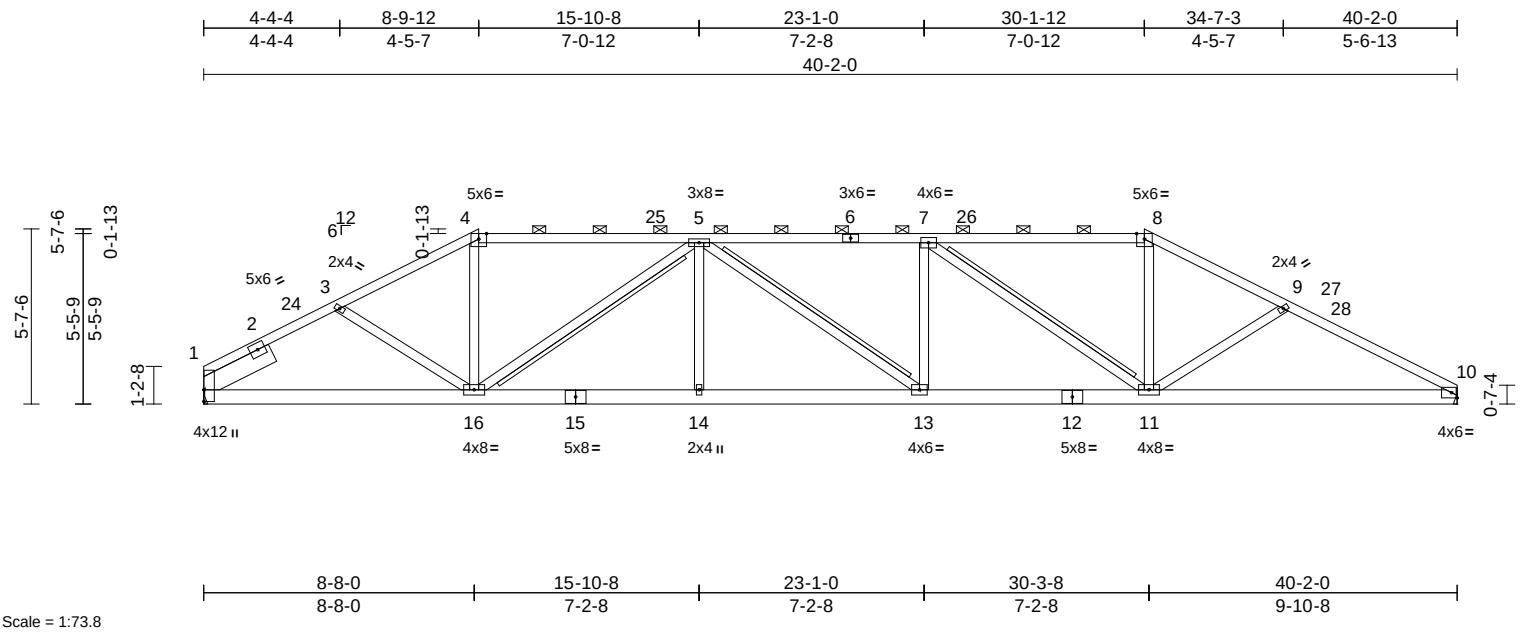

Scale = 1:73.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.21	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.43	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.11	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.24	13-14	>999	240	Weight: 246 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 1-4:2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SPF No.2(flat)
SLIDER Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-1-8 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 7-11-11 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 5-16, 5-13, 7-11
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 10= Mechanical
Max Horiz 1=-129 (LC 13)
Max Uplift 1=-355 (LC 9), 10=-347 (LC 8)
Max Grav 1=1607 (LC 1), 10=1607 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-2430/821, 3-4=-2421/791, 4-5=-2142/766, 5-7=-3162/1060, 7-8=-2363/831, 8-9=-2706/872, 9-10=-2956/971
BOT CHORD 1-16=-628/2049, 14-16=-845/3102, 13-14=-845/3102, 11-13=-825/3162, 10-11=-793/2574
WEBS 3-16=-91/269, 4-16=-132/672, 8-11=-177/839, 9-11=-229/268, 5-14=0/306, 5-16=-1239/454, 5-13=-67/141, 7-13=0/236, 7-11=-1066/428

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-2-9, Interior (1) 4-2-9 to 8-9-12, Exterior (2) 8-9-12 to 14-5-14, Interior (1) 14-5-14 to 30-1-12, Exterior (2) 30-1-12 to 35-9-14, Interior (1) 35-9-14 to 40-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 355 lb uplift at joint 1 and 347 lb uplift at joint 10.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	A03	Hip	1	1	I73111723 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:22:57 Page: 1
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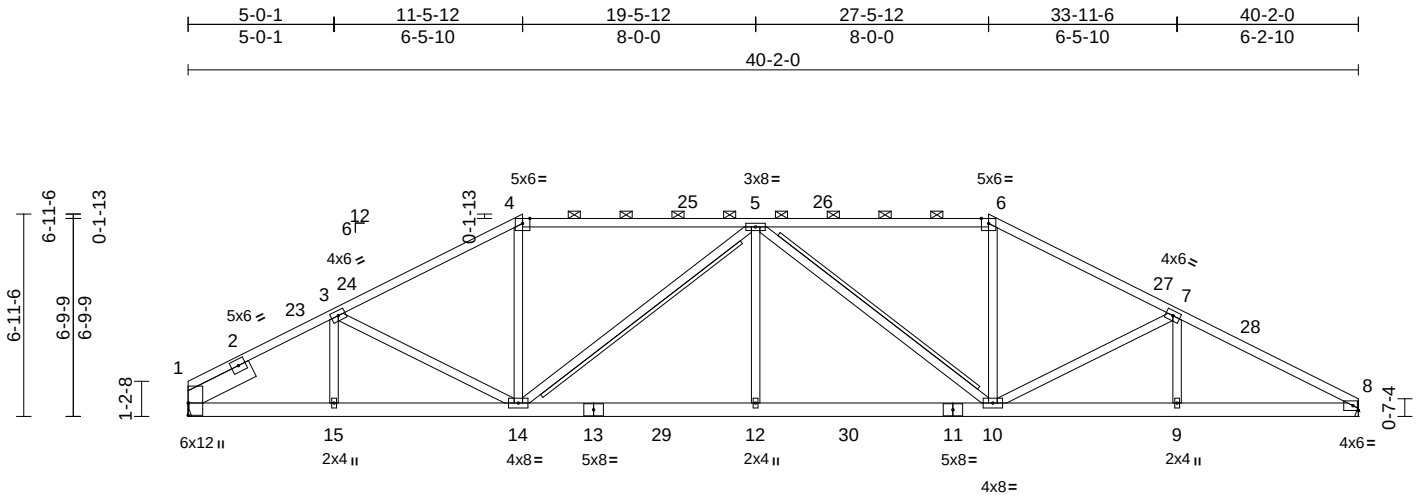

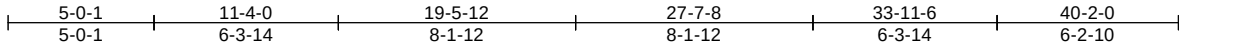

Scale = 1:79.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.15	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.31	10-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.15	10-12	>999	240	Weight: 252 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1 *Except* 6-8:2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS *Except* 13-11:2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SPF No.2(flat)
SLIDER Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except
2-0-0 oc purlins (2-2-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 9-3-2 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 5-14, 5-10
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 8= Mechanical
Max Horiz 1=-159 (LC 13)
Max Uplift 1=-323 (LC 12), 8=-341 (LC 13)
Max Grav 1=1607 (LC 1), 8=1607 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-2361/747, 3-4=-2400/796, 4-5=-2074/785, 5-6=-2186/821, 6-7=-2537/839, 7-8=-2946/899
BOT CHORD 1-15=-588/2048, 14-15=-588/2048, 12-14=-634/2581, 10-12=-634/2581, 9-10=-730/2565, 8-9=-730/2565
WEBS 3-14=-127/219, 4-14=-103/641, 5-14=-795/297, 5-12=0/379, 5-10=-676/276, 6-10=-126/716, 7-10=-423/317, 7-9=0/162, 3-15=-222/171

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 11-5-12, Exterior (2) 11-5-12 to 17-1-14, Interior (1) 17-1-14 to 27-5-12, Exterior (2) 27-5-12 to 33-1-14, Interior (1) 33-1-14 to 40-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 323 lb uplift at joint 1 and 341 lb uplift at joint 8.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

April 30,2025

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	A04	Hip	1	1	I73111724 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:22:57 Page: 1
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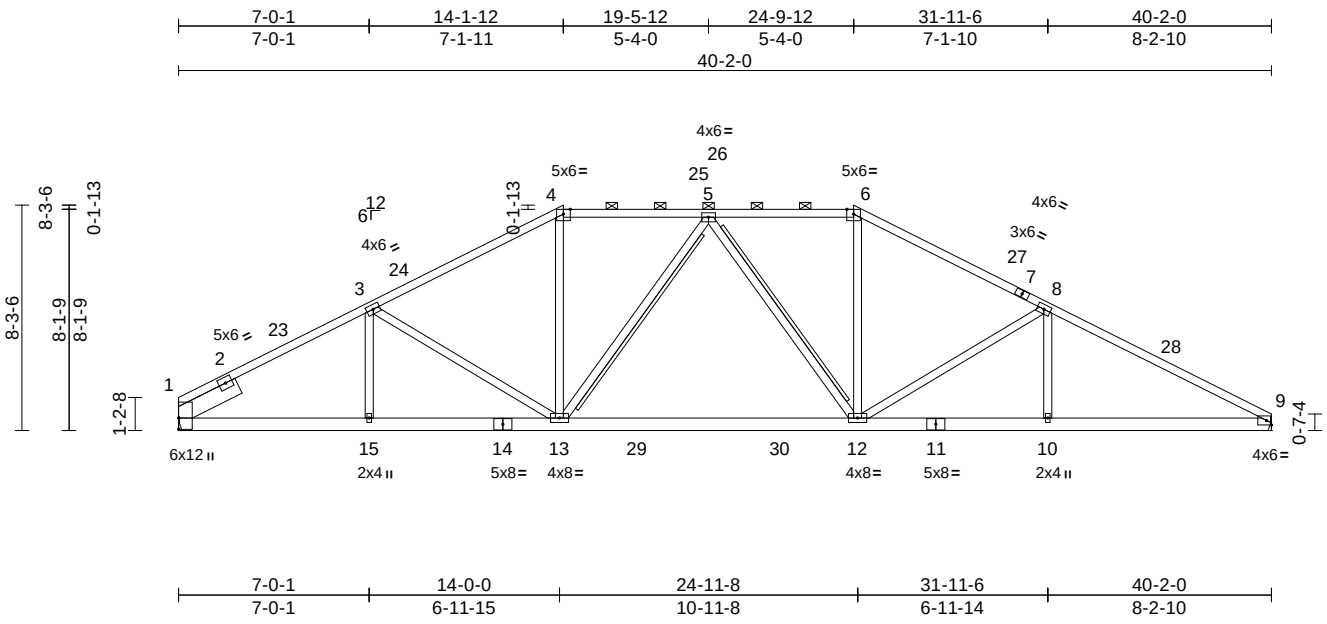


Scale = 1:84.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.22	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.43	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.13	13-15	>999	240	Weight: 251 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 1-4:2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except* 1-14:2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS 2x4 SP No.3
OTHERS 2x4 SPF No.2(flat)
SLIDER Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-10-9 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 8-10-14 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 5-13, 5-12
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 9= Mechanical
Max Horiz 1=-189 (LC 13)
Max Uplift 1=-359 (LC 12), 9=-375 (LC 13)
Max Grav 1=1607 (LC 1), 9=1607 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-2448/767, 3-4=-2248/761, 4-5=-1924/758, 5-6=-1980/777, 6-8=-2324/787, 8-9=-2901/868
BOT CHORD 1-15=-578/2118, 13-15=-578/2118, 12-13=-482/2081, 10-12=-675/2500, 9-10=-675/2500
WEBS 3-15=-139/138, 3-13=-258/306, 4-13=-128/620, 5-13=-411/230, 5-12=-330/220, 6-12=-147/671, 8-12=-612/395, 8-10=0/252

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 14-1-12, Exterior (2) 14-1-12 to 19-9-14, Interior (1) 19-9-14 to 24-9-12, Exterior (2) 24-9-12 to 30-5-14, Interior (1) 30-5-14 to 40-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 359 lb uplift at joint 1 and 375 lb uplift at joint 9.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

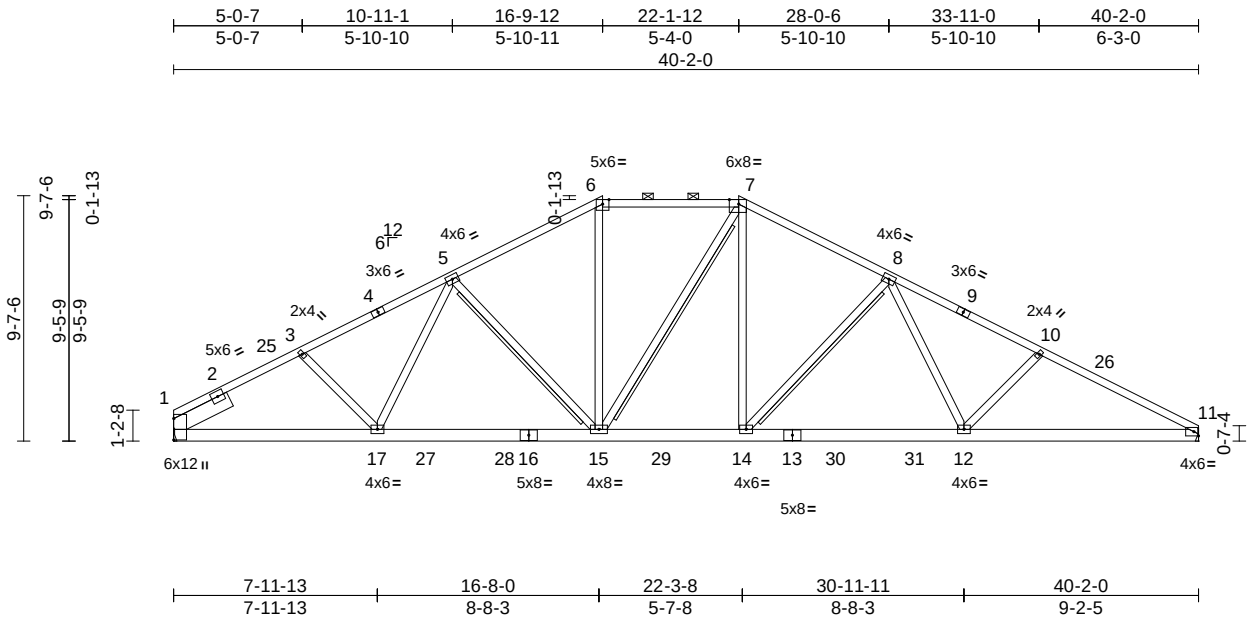
LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	A05	Hip	1	1	Job Reference (optional)	I73111725

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:22:58 Page: 1
ID:GfyXPVOCe6WU5bPjNag18bzbzjE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:90.3

Plate Offsets (X, Y): [7:0-4-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.18	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.35	12-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	15-17	>999	240	Weight: 265 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 1-4:2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except* 1-16:2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS 2x4 SP No.3
OTHERS 2x4 SPF No.2(flat)
SLIDER Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except
2-0-0 oc purlins (3-9-12 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 8-10-12 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 5-15, 7-15, 8-14
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 11= Mechanical
Max Horiz 1=-219 (LC 13)
Max Uplift 1=-389 (LC 12), 11=-404 (LC 13)
Max Grav 1=1607 (LC 1), 11=1607 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-2479/767, 3-5=-2359/755, 5-6=-2035/751, 6-7=-1741/736, 7-8=-2058/760, 8-10=-2711/839, 10-11=-2953/871
BOT CHORD 1-17=-638/2124, 15-17=-513/2039, 14-15=-330/1771, 12-14=-538/2181, 11-12=-678/2566
WEBS 3-17=-106/210, 5-17=-19/219, 5-15=-456/339, 6-15=-142/594, 7-15=-219/149, 7-14=-197/666, 8-14=-614/380, 8-12=-104/476, 10-12=-311/285

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 16-9-12, Exterior (2) 16-9-12 to 28-0-6, Interior (1) 28-0-6 to 40-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 389 lb uplift at joint 1 and 404 lb uplift at joint 11.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

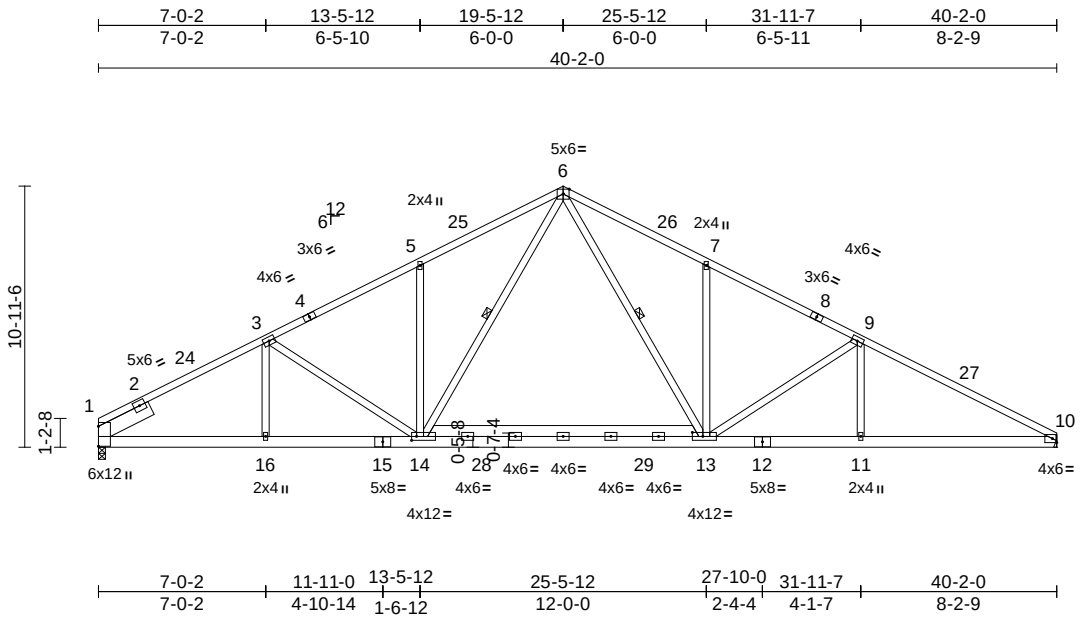
LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	A06	Common	1	1	Job Reference (optional)	I73111726

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:22:58 Page: 1
ID:aCDu6yK3YBJ1P6ILFkAT3yzbzoT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:96.6

Plate Offsets (X, Y): [13:0-5-4,0-2-0], [14:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.19	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.37	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	13	>999	240	Weight: 285 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 1-4:2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except* 1-15:2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 9-0-0 oc bracing.
WEBS 1 Row at midpt 6-14, 6-13

REACTIONS (size) 1=0-3-8, 10= Mechanical
Max Horiz 1=-251 (LC 13)
Max Uplift 1=-414 (LC 12), 10=-427 (LC 13)
Max Grav 1=1607 (LC 1), 10=1607 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-2439/680, 3-5=-2270/667, 5-6=-2283/813, 6-7=-2345/826, 7-9=-2349/687, 9-10=-2896/759
BOT CHORD 1-16=-662/2104, 14-16=-662/2104, 13-14=-244/1516, 11-13=-543/2493, 10-11=-543/2493
WEBS 3-16=-142/103, 3-14=-242/244, 5-14=-422/359, 6-14=-435/933, 6-13=-468/1031, 7-13=-387/341, 9-13=-587/349, 9-11=0/254

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 19-5-12, Exterior (2) 19-5-12 to 23-5-15, Interior (1) 23-5-15 to 40-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 427 lb uplift at joint 10 and 414 lb uplift at joint 1.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	A07	Common	3	1	Job Reference (optional)	I73111727

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:22:59 Page: 1

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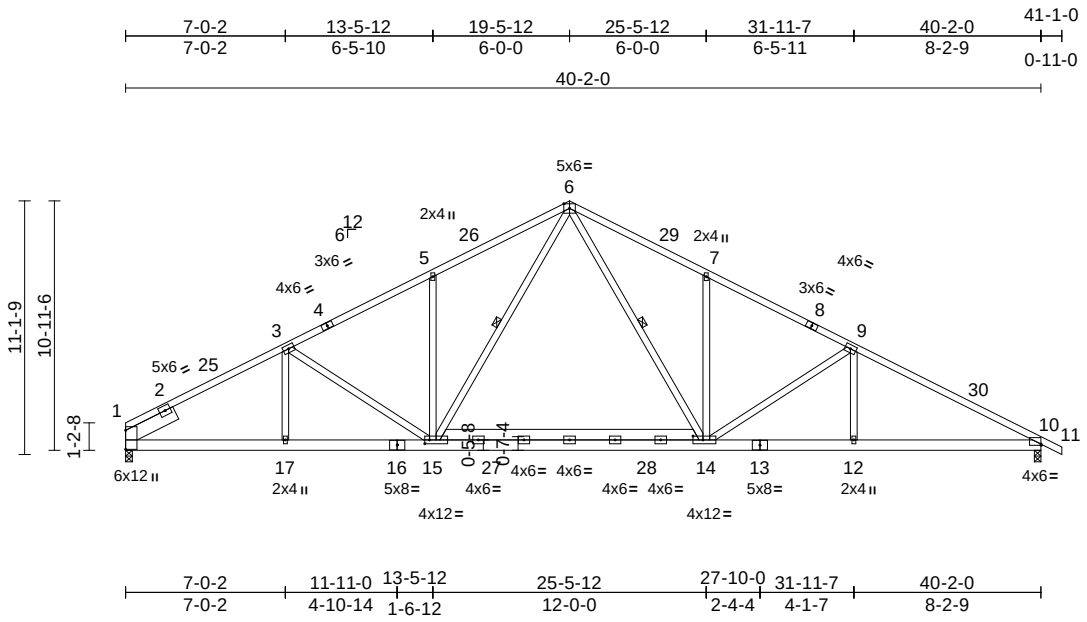

Scale = 1:101.1

Plate Offsets (X, Y): [10:Edge,0-0-11], [14:0-5-4,0-2-0], [15:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.19	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.37	14-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	14	>999	240	Weight: 287 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-4:2x4 SP No.1

BOT CHORD 2x6 SP No.2 *Except* 1-16:2x6 SP 2400F 2.0E or 2x6 SP DSS

WEBS 2x4 SP No.3

SLIDER Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied or 9-0-13 oc bracing.

WEBS 1 Row at midpt 6-15, 6-14

REACTIONS (size) 1=0-3-8, 10=0-3-8

Max Horiz 1=-271 (LC 13)

Max Uplift 1=-414 (LC 12), 10=-458 (LC 13)

Max Grav 1=1606 (LC 1), 10=1662 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-2438/680, 3-5=-2268/667, 5-6=-2282/812, 6-7=-2343/821, 7-9=-2347/678, 9-10=-2889/750, 10-11=0/25

BOT CHORD 1-17=-652/2103, 15-17=-652/2103, 14-15=-234/1515, 12-14=-519/2487, 10-12=-519/2487

WEBS 5-15=-422/359, 6-15=-435/932, 3-15=-242/244, 6-14=-467/1030, 7-14=-388/341, 9-14=-582/346, 3-17=-141/103, 9-12=0/252

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 19-5-12, Exterior (2) 19-5-12 to 23-5-15, Interior (1) 23-5-15 to 41-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 414 lb uplift at joint 1 and 458 lb uplift at joint 10.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	A08	Common	4	1	Job Reference (optional)	I73111728

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:22:59 Page: 1
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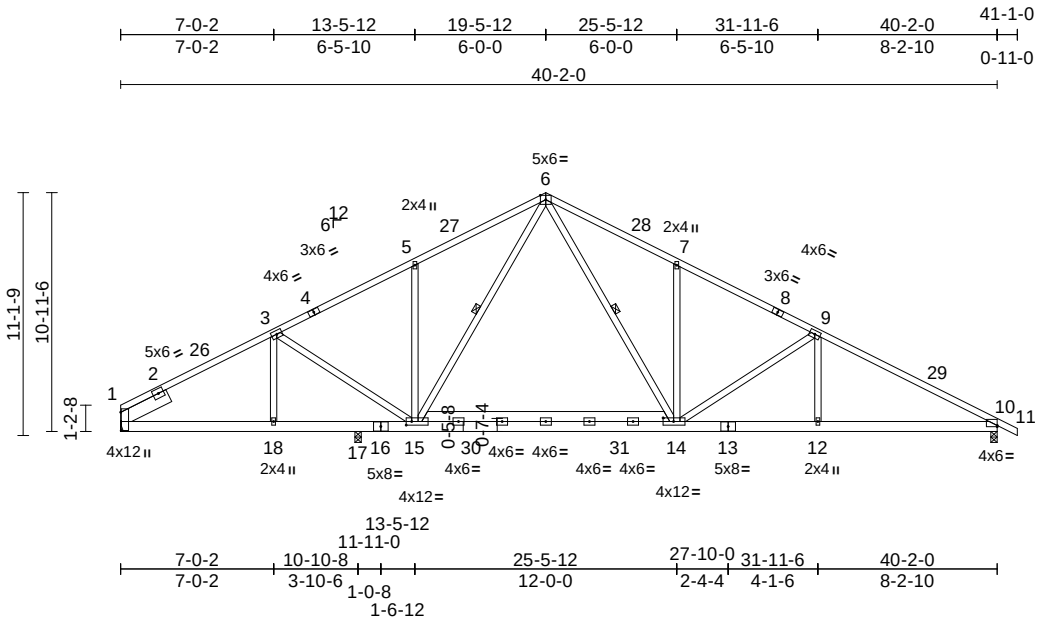

Scale = 1:105.6

Plate Offsets (X, Y): [1:0-10-1,0-0-4], [10:Edge,0-0-11], [14:0-5-12,0-2-0], [15:0-3-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.16	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.31	14-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.12	14-15	>999	240	Weight: 287 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 1-16:2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-8-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-15, 6-14

REACTIONS (size) 1= Mechanical, 10=0-3-8, 17=0-3-8
Max Horiz 1=-271 (LC 13)
Max Uplift 1=-255 (LC 12), 10=-408 (LC 13), 17=-219 (LC 12)
Max Grav 1=891 (LC 1), 10=1397 (LC 1), 17=981 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-1115/397, 3-5=-1144/421, 5-6=-1148/565, 6-7=-1779/715, 7-9=-1783/547, 9-10=-2330/645, 10-11=0/25
BOT CHORD 1-18=-393/1000, 17-18=-393/1000, 15-17=-393/1000, 14-15=-111/976, 12-14=-425/1987, 10-12=-425/1987
WEBS 3-18=-349/149, 3-15=-122/210, 5-15=-408/356, 6-15=-245/181, 6-14=-484/1108, 7-14=-386/341, 9-14=-587/348, 9-12=0/253

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 19-5-12, Exterior (2) 19-5-12 to 23-5-15, Interior (1) 23-5-15 to 41-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 1, 408 lb uplift at joint 10 and 219 lb uplift at joint 17.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	A09	Hip	1	1	I73111729 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:00
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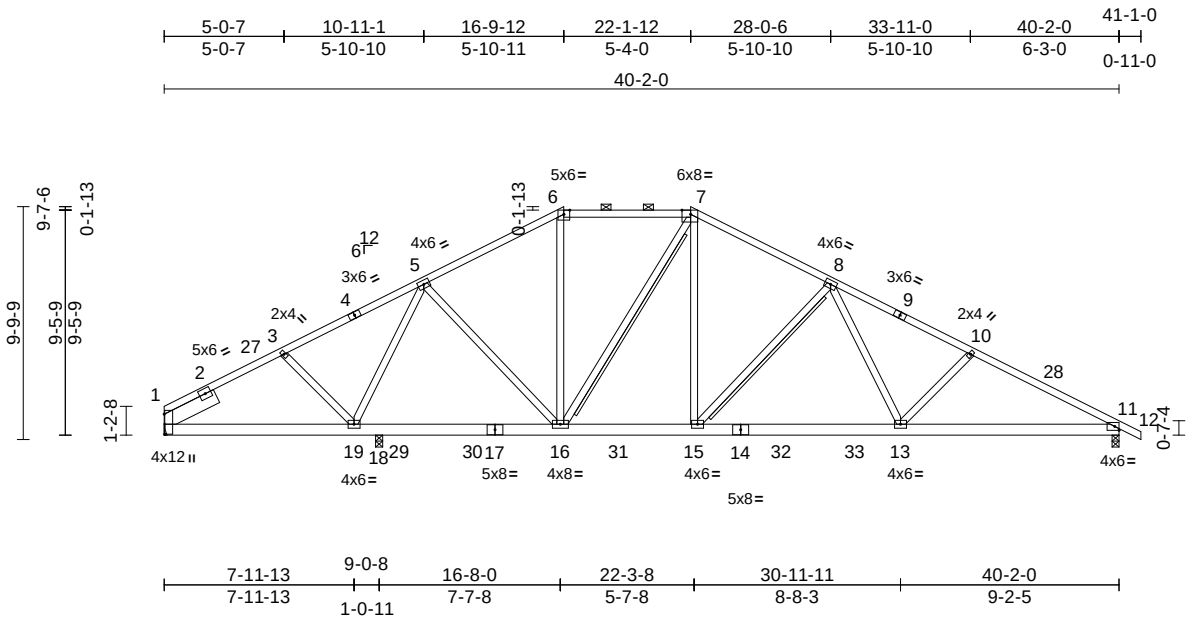

Scale = 1:96.9

Plate Offsets (X, Y): [1:0-10-1,0-0-4], [7:0-4-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.12	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.23	13-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.10	13-15	>999	240	Weight: 267 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SPF No.2(flat)
SLIDER	Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-6-4 oc purlins, except 2-0-0 oc purlins (5-2-4 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 7-16, 8-15 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 11=0-3-8, 18=0-3-8
Max Horiz 1=-240 (LC 13)
Max Uplift 1=-194 (LC 12), 11=-394 (LC 13), 18=-252 (LC 12)
Max Grav 1=660 (LC 1), 11=1387 (LC 1), 18=1264 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-3=-691/336, 3-5=-585/310, 5-6=-1204/541, 6-7=-1003/534, 7-8=-1460/611, 8-10=-2125/683, 10-11=-2369/706, 11-12=0/25
BOT CHORD	1-19=-324/653, 18-19=-230/842, 16-18=-230/842, 15-16=-181/1225, 13-15=-390/1651, 11-13=-533/2047
WEBS	5-16=-49/393, 6-16=-69/261, 7-16=-524/198, 7-15=-209/733, 8-15=-622/381, 8-13=-104/487, 10-13=-317/285, 5-19=-915/333, 3-19=-289/253

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 16-9-12, Exterior (2) 16-9-12 to 28-0-6, Interior (1) 28-0-6 to 41-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 194 lb uplift at joint 1, 394 lb uplift at joint 11 and 252 lb uplift at joint 18.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	A10	Hip	1	1	I73111730 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

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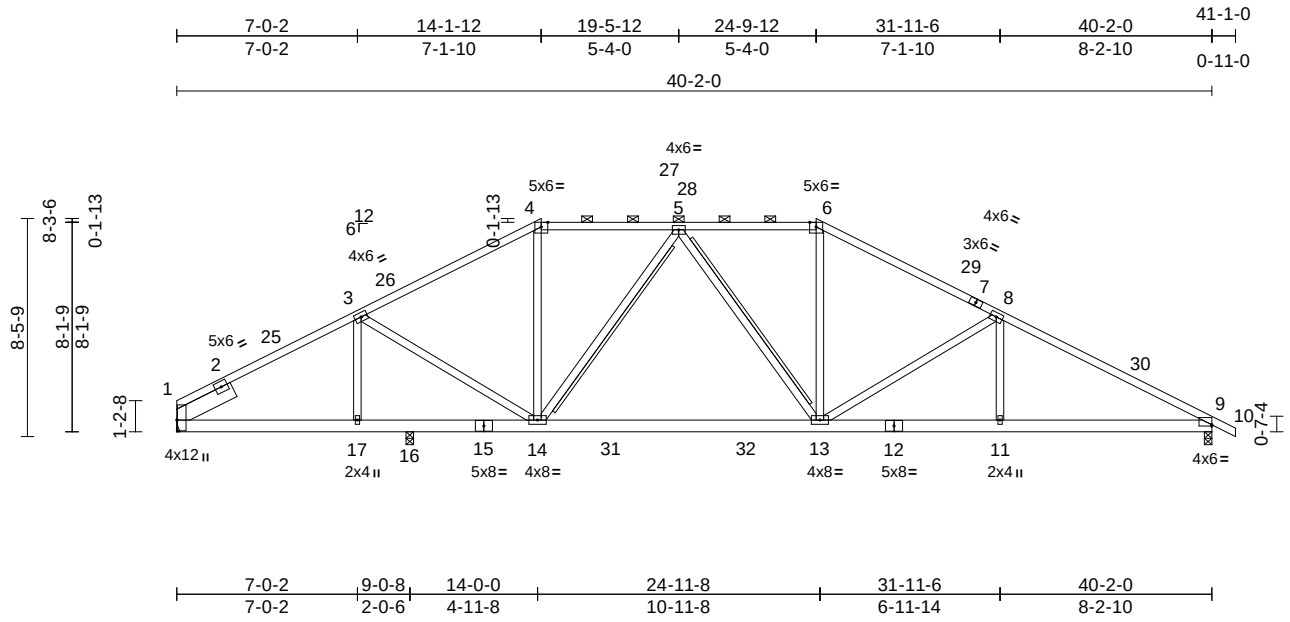


Scale = 1:89.4

Plate Offsets (X, Y): [1:0-5-0,0-0-4], [9:Edge,0-0-11]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.22	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.42	13-14	>895	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.12	13-14	>999	240	Weight: 253 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SPF No.2(flat)
SLIDER	Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-4-0 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 9-8-1 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 5-14, 5-13 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 9=0-3-8, 16=0-3-8
Max Horiz 1=-210 (LC 13)
Max Uplift 1=-265 (LC 12), 9=-384 (LC 13), 16=-121 (LC 12)
Max Grav 1=959 (LC 1), 9=1474 (LC 1), 16=835 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-3=-1218/485, 3-4=-1505/586, 4-5=-1257/573, 5-6=-1623/696, 6-8=-1923/695, 8-9=-2497/775, 9-10=0/25
BOT CHORD	1-17=-360/1041, 16-17=-360/1041, 14-16=-360/1041, 13-14=-339/1567, 11-13=-576/2140, 9-11=-576/2140
WEBS	4-14=-56/364, 5-14=-628/258, 5-13=-91/220, 6-13=-89/512, 8-13=-611/393, 8-11=0/249, 3-17=-651/294, 3-14=-114/418

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 14-1-12, Exterior (2) 14-1-12 to 19-9-14, Interior (1) 19-9-14 to 24-9-12, Exterior (2) 24-9-12 to 30-5-14, Interior (1) 30-5-14 to 41-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 1, 384 lb uplift at joint 9 and 121 lb uplift at joint 16.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

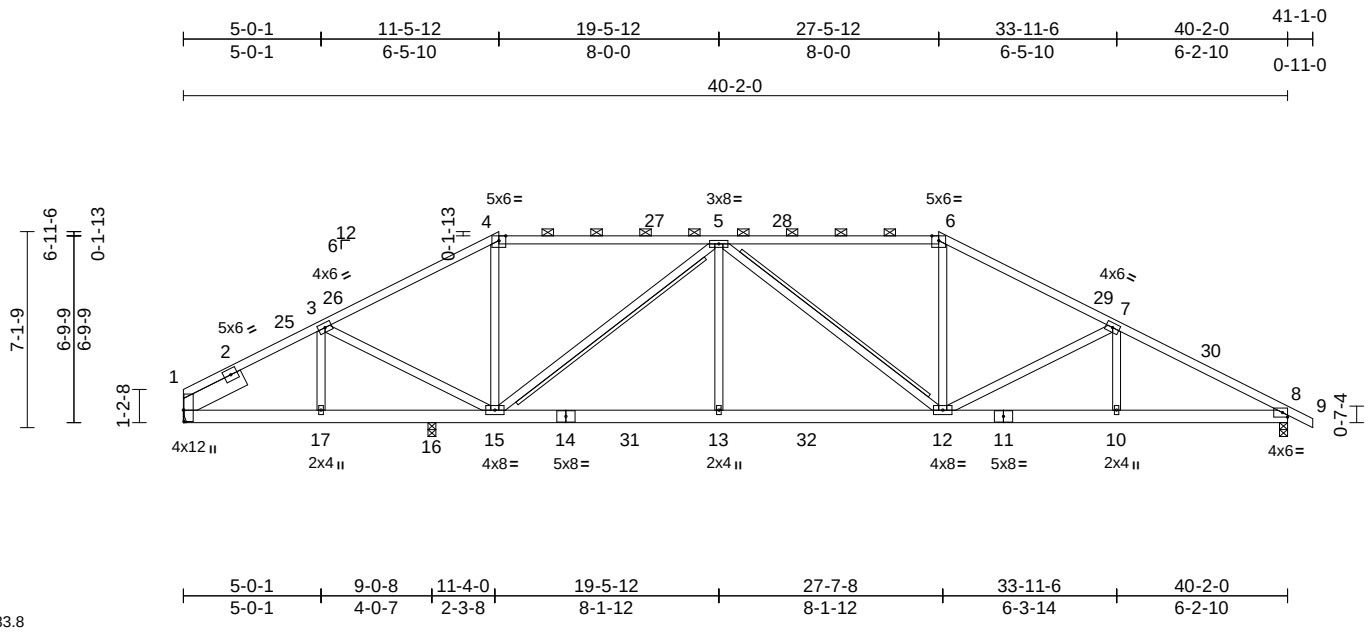
April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	A11	Hip	1	1	I73111731
					Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:00 Page: 1

ID:MfTKQa?lWNmF3F_cjBTX8EzbzZP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:83.8

Plate Offsets (X, Y): [1:0-5-0,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.12	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.26	13-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.12	13-15	>999	240	Weight: 253 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-6:2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except* 1-14:2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS 2x4 SP No.3
OTHERS 2x4 SPF No.2(flat)
SLIDER Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-10 oc purlins, except 2-0-0 oc purlins (3-8-8 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 9-6-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 5-15, 5-12
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 8=0-3-8, 16=0-3-8
Max Horiz 1=-180 (LC 13)
Max Uplift 1=-196 (LC 12), 8=-347 (LC 13), 16=-198 (LC 9)
Max Grav 1=793 (LC 1), 8=1426 (LC 1), 16=1049 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-845/358, 3-4=-1137/449, 4-5=-944/451, 5-6=-1719/697, 6-7=-2011/700, 7-8=-2464/770, 8-9=0/25
BOT CHORD 1-17=-259/788, 16-17=-259/788, 15-16=-259/788, 13-15=-411/1843, 12-13=-411/1843, 10-12=-599/2134, 8-10=-599/2134
WEBS 4-15=0/215, 5-15=-1208/373, 5-13=0/440, 5-12=-367/209, 6-12=-53/511, 7-12=-463/319, 7-10=0/193, 3-17=-487/252, 3-15=-132/329

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 11-5-12, Exterior (2) 11-5-12 to 17-1-14, Interior (1) 17-1-14 to 27-5-12, Exterior (2) 27-5-12 to 33-1-14, Interior (1) 33-1-14 to 41-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 1, 347 lb uplift at joint 8 and 198 lb uplift at joint 16.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

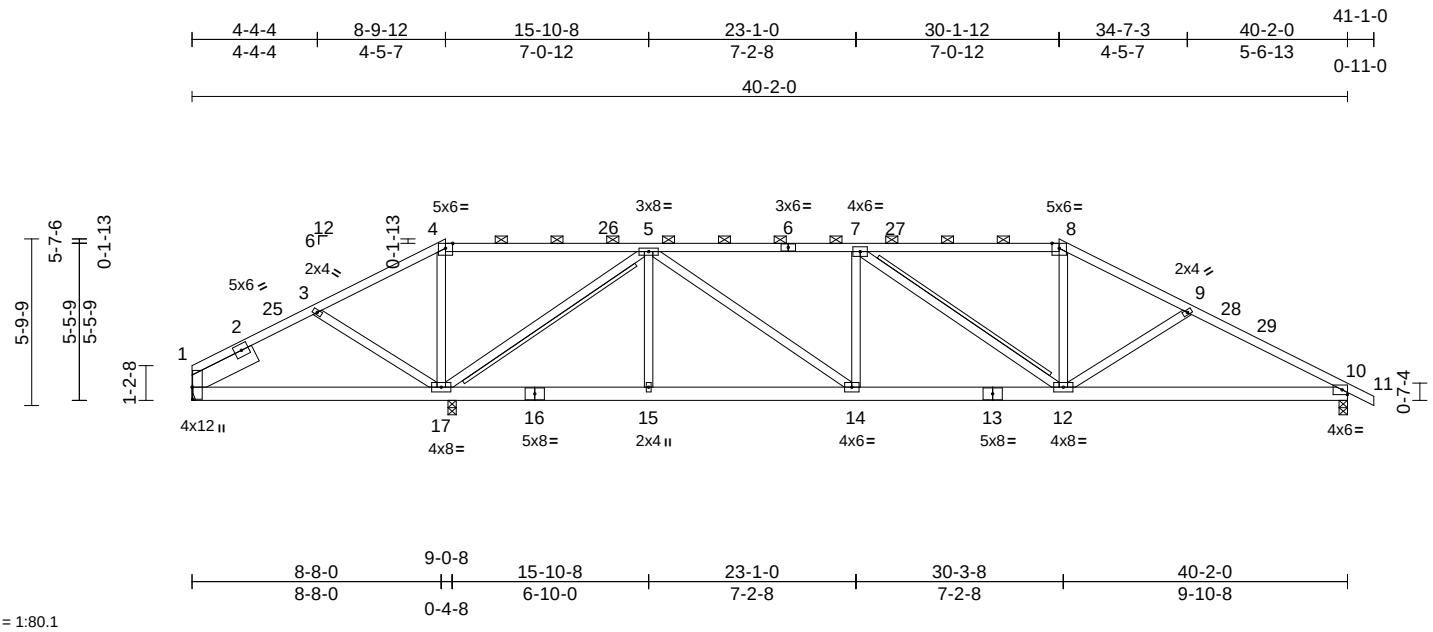
April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	A12	Hip	1	1	I73111732 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:01 Page: 1
ID:vRieTBFQjWCsNrCMcFo8gSzbzWV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:80.1

Plate Offsets (X, Y): [1:0-5-0,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.09	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.17	12-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.10	12-14	>999	240	Weight: 247 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SPF No.2(flat)
SLIDER	Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-11-5 oc purlins, except 2-0-0 oc purlins (3-7-9 max.): 4-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 1-17.
WEBS	T-Brace: 2x4 SPF No.2 - 5-17, 7-12 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 10=0-3-8, 17=0-3-8
Max Horiz 1=-150 (LC 13)
Max Uplift 1=-203 (LC 24), 10=-285 (LC 13), 17=-570 (LC 9)
Max Grav 1=149 (LC 8), 10=1212 (LC 24), 17=2111 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-3=-400/531, 3-4=-213/740, 4-5=-144/601, 5-7=-1653/599, 7-8=-1502/568, 8-9=-1739/576, 9-10=-2009/682, 10-11=0/25
BOT CHORD	1-17=-423/288, 15-17=-240/944, 14-15=-240/944, 12-14=-404/1653, 10-12=-520/1732
WEBS	3-17=-380/276, 4-17=-615/293, 8-12=-43/474, 9-12=-264/271, 5-15=0/263, 5-17=-1857/622, 5-14=-279/878, 7-14=-361/239, 7-12=-309/211

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-2-9, Interior (1) 4-2-9 to 8-9-12, Exterior (2) 8-9-12 to 14-5-14, Interior (1) 14-5-14 to 30-1-12, Exterior (2) 30-1-12 to 35-9-14, Interior (1) 35-9-14 to 41-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 1, 570 lb uplift at joint 17 and 285 lb uplift at joint 10.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

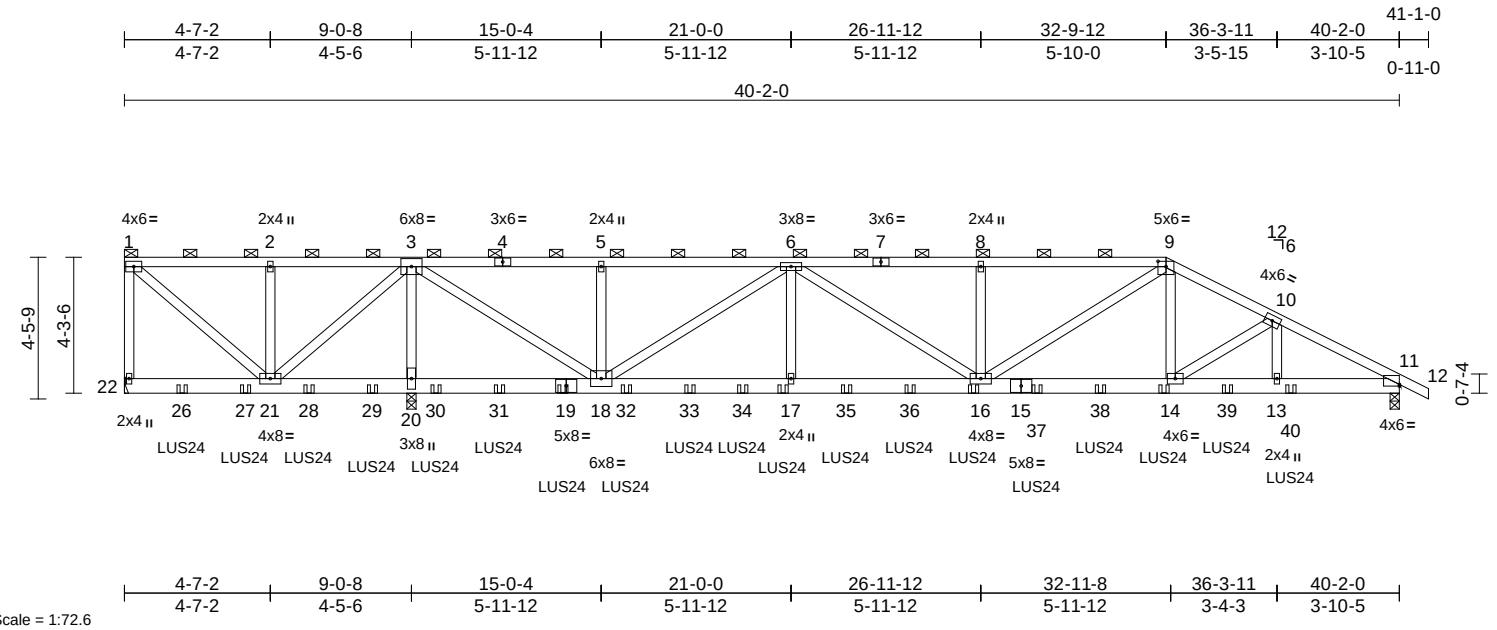
LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	A13	Roof Special Girder	1	2	I73111733 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:01 Page: 1
ID:Q?hFMD99r9Oe8iJm5l_CNAzbzJi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:72.6

Plate Offsets (X, Y): [9:0-3-0,0-2-0], [11:Edge,0-0-11]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.12	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.22	16-17	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.20	16-17	>999	240	Weight: 515 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-3 max.): 1-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 20-21,18-20.

REACTIONS (size) 11=0-3-8, 20=0-3-8, 22= Mechanical
Max Horiz 22=-213 (LC 9)
Max Uplift 11=-1125 (LC 4), 20=-3169 (LC 4), 22=-620 (LC 1)
Max Grav 11=2192 (LC 1), 20=5141 (LC 1), 22=362 (LC 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-448/794, 1-2=-592/1017, 2-3=-592/1017, 3-5=-1051/718, 5-6=-1051/718, 6-8=-4069/2520, 8-9=-4069/2520, 9-10=-3663/2135, 10-11=-3856/2104, 11-12=0/25
BOT CHORD 21-22=0/215, 20-21=-2816/1805, 18-20=-2816/1805, 17-18=-2053/3409, 16-17=-2053/3409, 14-16=-1790/3218, 13-14=-1818/3386, 11-13=-1818/3386
WEBS 9-14=-466/794, 10-14=-165/237, 10-13=-34/86, 3-20=-4436/2740, 5-18=-355/252, 3-18=-2859/4604, 6-18=-2831/1736, 6-17=-483/864, 6-16=-416/788, 8-16=-374/261, 9-16=-762/1108, 3-21=-1442/2394, 2-21=-259/190, 1-21=-1373/801

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 620 lb uplift at joint 22, 3169 lb uplift at joint 20 and 1125 lb uplift at joint 11.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-12 from the left end to 36-9-0 to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.

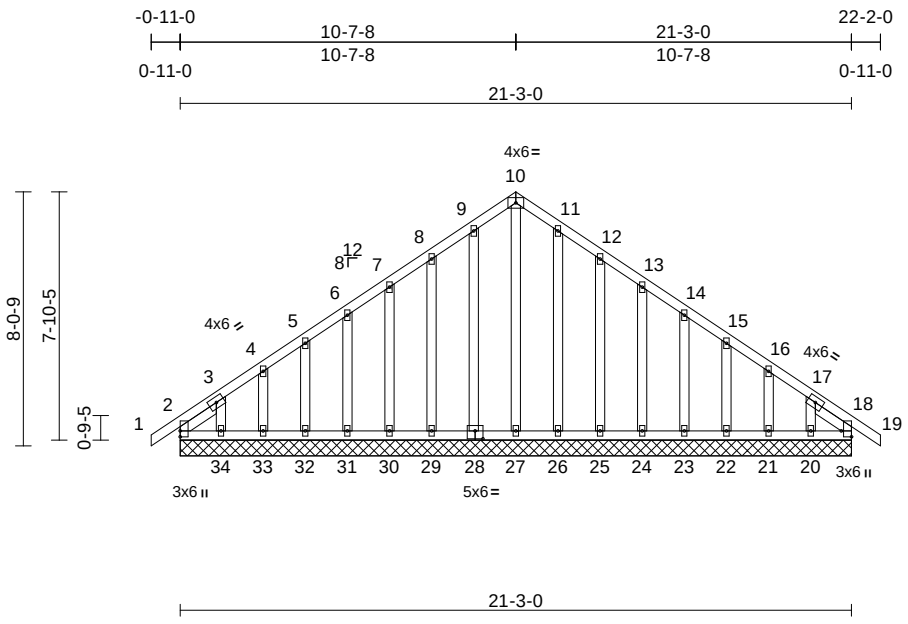
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-9=-60, 9-12=-60, 22-23=-20
Concentrated Loads (lb)
Vert: 19=-179 (B), 14=-179 (B), 17=-179 (B), 16=-179 (B), 26=-179 (B), 27=-179 (B), 28=-179 (B), 29=-179 (B), 30=-179 (B), 31=-179 (B), 32=-179 (B), 33=-179 (B), 34=-179 (B), 35=-179 (B), 36=-179 (B), 37=-179 (B), 38=-179 (B), 39=-179 (B), 40=-227 (B)

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	B01	Common Supported Gable	1	1	I73111734 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:02 Page: 1
ID:alIIuQnGkqksg2PTJqO5gxzbzGJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:72.9

Plate Offsets (X, Y): [18:Edge,0-3-14], [28:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 167 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.2 -- 1-5-7, Right 2x4 SP No.2 -- 1-5-7

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

REACTIONS (size) 2=21-3-0, 18=21-3-0, 20=21-3-0, 21=21-3-0, 22=21-3-0, 23=21-3-0, 24=21-3-0, 25=21-3-0, 26=21-3-0, 27=21-3-0, 28=21-3-0, 29=21-3-0, 30=21-3-0, 31=21-3-0, 32=21-3-0, 33=21-3-0, 34=21-3-0
Max Horiz 2=-257 (LC 10)
Max Uplift 2=-110 (LC 8), 18=-35 (LC 9), 20=-132 (LC 13), 21=-62 (LC 13), 22=-70 (LC 13), 23=-68 (LC 13), 24=-68 (LC 13), 25=-79 (LC 13), 26=-44 (LC 13), 27=-3 (LC 11), 28=-51 (LC 12), 29=-75 (LC 12), 30=-68 (LC 12), 31=-68 (LC 12), 32=-70 (LC 12), 33=-61 (LC 12), 34=-153 (LC 12)
Max Grav 2=199 (LC 20), 18=142 (LC 22), 20=131 (LC 20), 21=120 (LC 20), 22=121 (LC 20), 23=120 (LC 20), 24=120 (LC 20), 25=123 (LC 20), 26=119 (LC 20), 27=196 (LC 13), 28=127 (LC 19), 29=121 (LC 19), 30=120 (LC 19), 31=120 (LC 19), 32=121 (LC 19), 33=118 (LC 19), 34=154 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/31, 2-3=-73/70, 3-4=-184/168, 4-5=-153/149, 5-6=-138/134, 6-7=-122/143, 7-8=-124/174, 8-9=-173/210, 9-10=-203/238, 10-11=-203/238, 11-12=-172/200, 12-13=-124/142, 13-14=-80/90, 14-15=-54/49, 15-16=-67/58, 16-17=-117/80, 17-18=-52/46, 18-19=0/31
BOT CHORD 2-34=-122/190, 33-34=-122/190, 32-33=-122/190, 31-32=-122/190, 30-31=-122/190, 29-30=-122/190, 27-29=-122/190, 26-27=-122/190, 25-26=-122/190, 24-25=-122/190, 23-24=-122/190, 22-23=-122/190, 21-22=-122/190, 20-21=-122/190, 18-20=-122/190
WEBS 10-27=-186/119, 9-28=-100/67, 8-29=-114/92, 7-30=-105/84, 6-31=-105/84, 5-32=-105/84, 4-33=-106/83, 3-34=-140/142, 11-26=-92/60, 12-25=-114/95, 13-24=-105/84, 14-23=-105/84, 15-22=-105/84, 16-21=-106/84, 17-20=-144/126

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-11-0 to 2-1-0, Exterior (2) 2-1-0 to 10-7-8, Corner (3) 10-7-8 to 13-7-8, Exterior (2) 13-7-8 to 22-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 (||) MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 2, 35 lb uplift at joint 18, 3 lb uplift at joint 27, 51 lb uplift at joint 28, 75 lb uplift at joint 29, 68 lb uplift at joint 30, 68 lb uplift at joint 31, 70 lb uplift at joint 32, 61 lb uplift at joint 33, 153 lb uplift at joint 34, 44 lb uplift at joint 26, 79 lb uplift at joint 25, 68 lb uplift at joint 24, 68 lb uplift at joint 23, 70 lb uplift at joint 22, 62 lb uplift at joint 21, 132 lb uplift at joint 20, 110 lb uplift at joint 2 and 35 lb uplift at joint 18.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	B02	Common	2	1	Job Reference (optional)	I73111735

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:02
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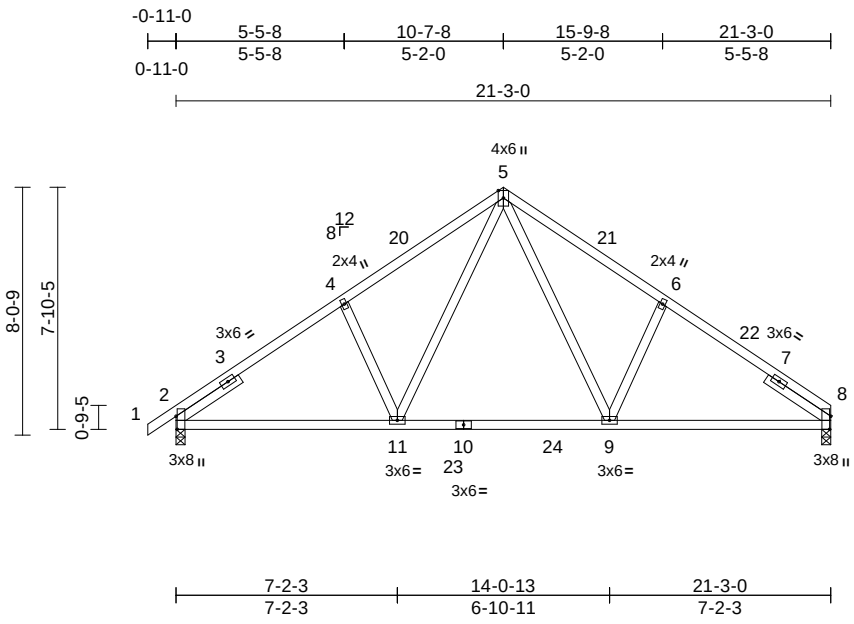

Scale = 1:74.8

Plate Offsets (X, Y): [2:0-5-2,Edge], [8:0-5-2,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.11	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.17	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.03	11-18	>999	240	Weight: 115 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2 -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-2-11 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 8=0-3-8
Max Horiz 2=250 (LC 9)
Max Uplift 2=-240 (LC 12), 8=-209 (LC 13)
Max Grav 2=906 (LC 1), 8=849 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/31, 2-4=-1071/307, 4-5=-1125/379, 5-6=-1125/390, 6-8=-1092/317
BOT CHORD	2-11=-295/1009, 9-11=-81/674, 8-9=-164/868
WEBS	5-9=-224/523, 6-9=-348/304, 5-11=-221/517, 4-11=-348/303

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 10-7-8, Exterior (2) 10-7-8 to 13-7-8, Interior (1) 13-7-8 to 21-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 8 and 240 lb uplift at joint 2.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	B03	Roof Special	1	1	Job Reference (optional)	I73111736

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:02 Page: 1
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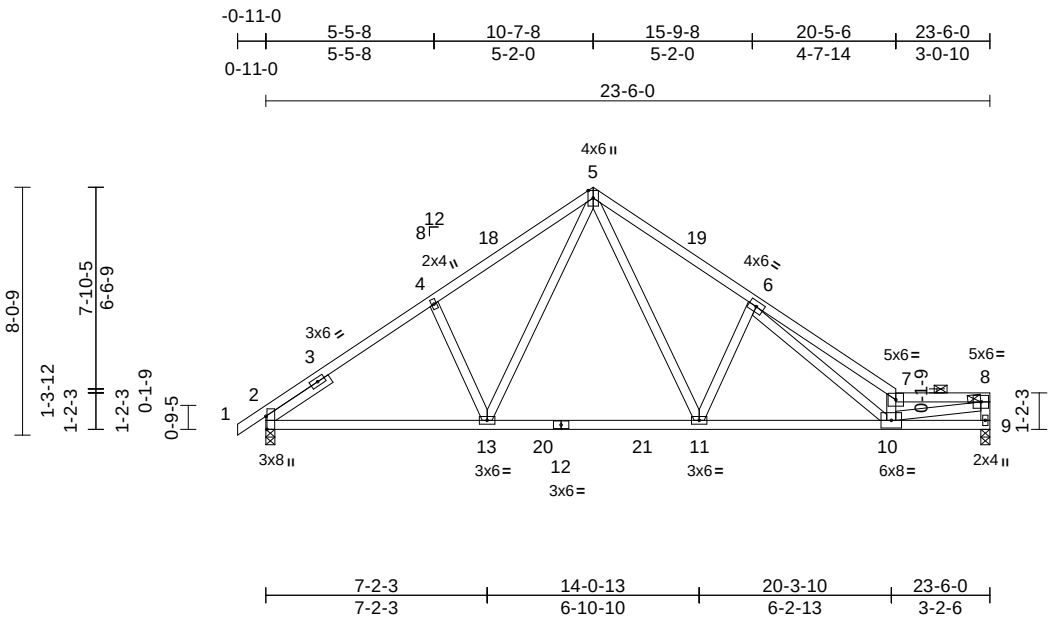

Scale = 1:74.8

Plate Offsets (X, Y): [2:0-5-2,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.14	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.28	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.15	10-11	>999	240	Weight: 133 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 8-9,10-8:2x4 SP No.2
SLIDER Left 2x4 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-5-11 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 9=0-3-8
Max Horiz 2=246 (LC 9)
Max Uplift 2=-253 (LC 12), 9=-247 (LC 13)
Max Grav 2=990 (LC 1), 9=933 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-4=-1221/337, 4-5=-1252/408, 5-6=-1396/446, 6-7=-2684/721, 7-8=-2640/662, 8-9=-857/243
BOT CHORD 2-13=-325/1102, 11-13=-113/777, 10-11=-268/1215, 9-10=-47/157
WEBS 4-13=-342/302, 5-13=-217/497, 5-11=-284/777, 6-11=-587/365, 6-10=-372/1337, 7-10=-1658/531, 8-10=-640/2578

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 10-7-8, Exterior (2) 10-7-8 to 13-7-8, Interior (1) 13-7-8 to 23-4-4 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 247 lb uplift at joint 9 and 253 lb uplift at joint 2.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	B04	Roof Special	1	1	Job Reference (optional)	I73111737

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:03 Page: 1
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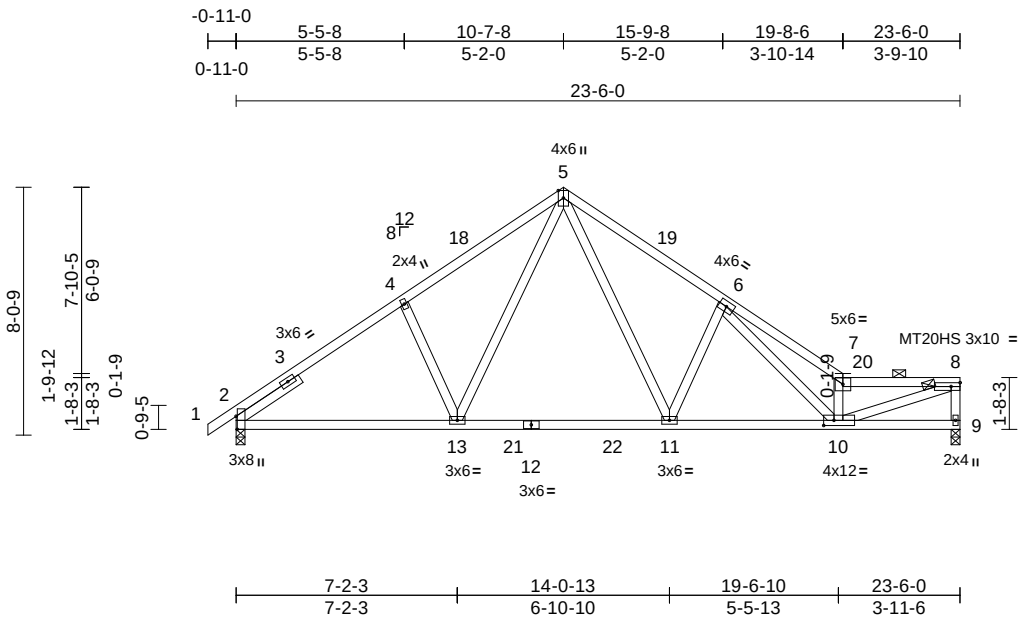

Scale = 1:74.8

Plate Offsets (X, Y): [2:0-5-2,Edge], [10:0-4-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.13	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.23	11-13	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.11	10-11	>999	240	Weight: 135 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 8-9:2x4 SP No.2
SLIDER Left 2x4 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-6-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-1 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 9-11-12 oc bracing.

REACTIONS (size) 2=0-3-8, 9=0-3-8
Max Horiz 2=244 (LC 9)
Max Uplift 2=-252 (LC 12), 9=-249 (LC 13)
Max Grav 2=990 (LC 1), 9=933 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-4=-1222/336, 4-5=-1247/407, 5-6=-1372/441, 6-7=-2334/631, 7-8=-2053/508, 8-9=-873/260
BOT CHORD 2-13=-339/1097, 11-13=-127/771, 10-11=-282/1210, 9-10=-27/81
WEBS 6-10=-293/1034, 7-10=-1448/465, 8-10=-511/2098, 5-13=-216/500, 4-13=-340/302, 5-11=-274/748, 6-11=-579/353

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 10-7-8, Exterior (2) 10-7-8 to 13-7-8, Interior (1) 13-7-8 to 23-4-4 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 9 and 252 lb uplift at joint 2.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	B05	Roof Special	1	1	Job Reference (optional)	I73111738

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:03 Page: 1
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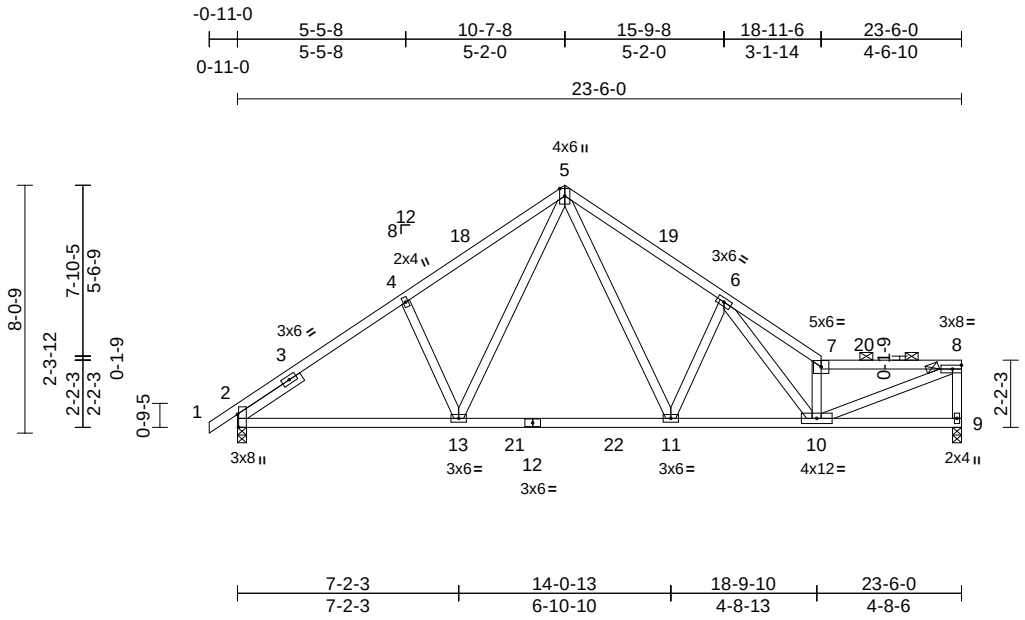

Scale = 1:74.8

Plate Offsets (X, Y): [2:0-5-2,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.13	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.22	11-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	10-11	>999	240	Weight: 137 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 8-9:2x4 SP No.2
SLIDER Left 2x4 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-7 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-8 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 9-9-7 oc bracing.

REACTIONS (size) 2=0-3-8, 9=0-3-8
Max Horiz 2=243 (LC 9)
Max Uplift 2=-251 (LC 12), 9=-251 (LC 13)
Max Grav 2=990 (LC 1), 9=933 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-4=-1223/334, 4-5=-1241/406, 5-6=-1354/440, 6-7=-2056/555, 7-8=-1777/446, 8-9=-874/274
BOT CHORD 2-13=-352/1093, 11-13=-141/766, 10-11=-288/1191, 9-10=-21/61
WEBS 4-13=-341/302, 5-13=-216/502, 6-10=-234/819, 7-10=-1317/427, 8-10=-460/1857, 5-11=-272/729, 6-11=-567/341

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 10-7-8, Exterior (2) 10-7-8 to 13-7-8, Interior (1) 13-7-8 to 23-4-4 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 251 lb uplift at joint 9 and 251 lb uplift at joint 2.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	B06	Roof Special Girder	1	2	I73111739
					Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:03 Page: 1
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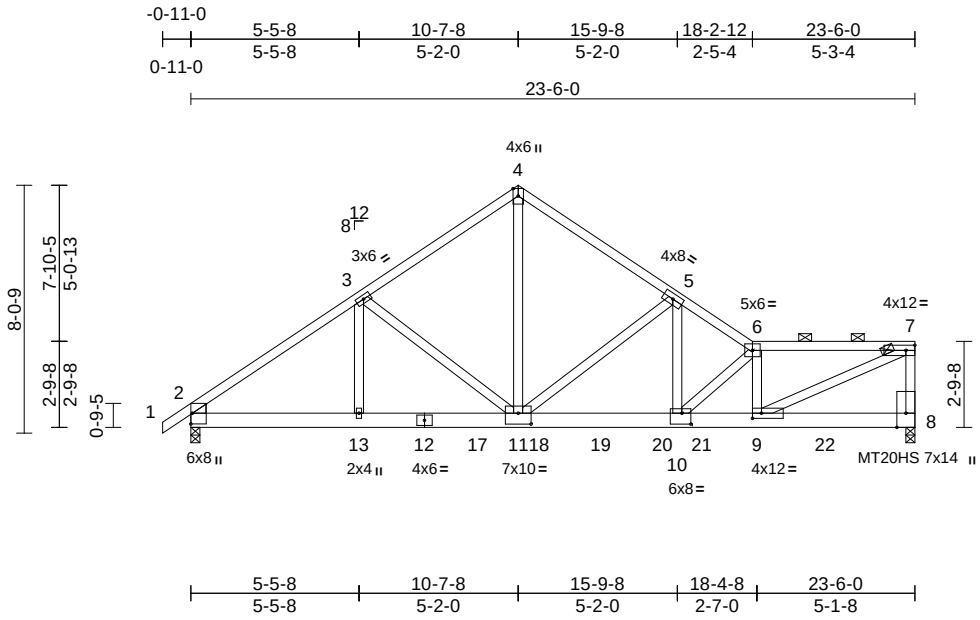

Scale = 1:74.8

Plate Offsets (X, Y): [2:Edge,0-0-9], [9:0-3-8,0-2-0], [10:0-3-8,0-4-4], [11:0-5-0,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.15	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.29	10-11	>960	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.17	10-11	>999	240	Weight: 312 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 12-8:2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS 2x4 SP No.2 *Except* 9-7:2x4 SP No.1
WEDGE Left: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-7 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-5 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 8=0-3-8
Max Horiz 2=247 (LC 8)
Max Uplift 2=-1224 (LC 8), 8=-1517 (LC 9)
Max Grav 2=3053 (LC 36), 8=4704 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-4563/1857, 3-4=-4495/1623, 4-5=-4500/1615, 5-6=-7943/2600, 6-7=-8401/2696, 7-8=-4185/1394
BOT CHORD 2-13=-1643/3703, 11-13=-1643/3703, 10-11=-2149/6643, 9-10=-2752/8557, 8-9=-61/164
WEBS 3-13=-755/338, 3-11=-418/586, 4-11=-1613/4573, 5-11=-3759/1292, 5-10=-1149/3927, 6-10=-2694/849, 6-9=-2595/930, 7-9=-2929/9154

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1517 lb uplift at joint 8 and 1224 lb uplift at joint 2.
10) Load case(s) 36 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 350 lb down and 640 lb up at 5-4-9, 137 lb down and 223 lb up at 7-3-13, 773 lb down and 208 lb up at 9-3-13, 939 lb down and 277 lb up at 11-3-13, 640 lb down and 206 lb up at 13-3-13, 871 lb down and 267 lb up at 15-3-13, 871 lb down and 267 lb up at 16-7-3, and 871 lb down and 267 lb up at 18-7-3, and 871 lb down and 267 lb up at 20-7-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard Except:
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-6=-60, 6-7=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 12=28 (B), 13=312 (B), 9=-871 (B), 17=-773 (B), 18=-939 (B), 19=-640 (B), 20=-871 (B), 21=-871 (B), 22=-871 (B)
36) User defined (1): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-6=-60, 6-7=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 9=-871 (B), 17=-773 (B), 18=-939 (B), 19=-640 (B), 20=-871 (B), 21=-871 (B), 22=-871 (B)

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	C01	Common Supported Gable	1	1	Job Reference (optional)	I73111740

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:04
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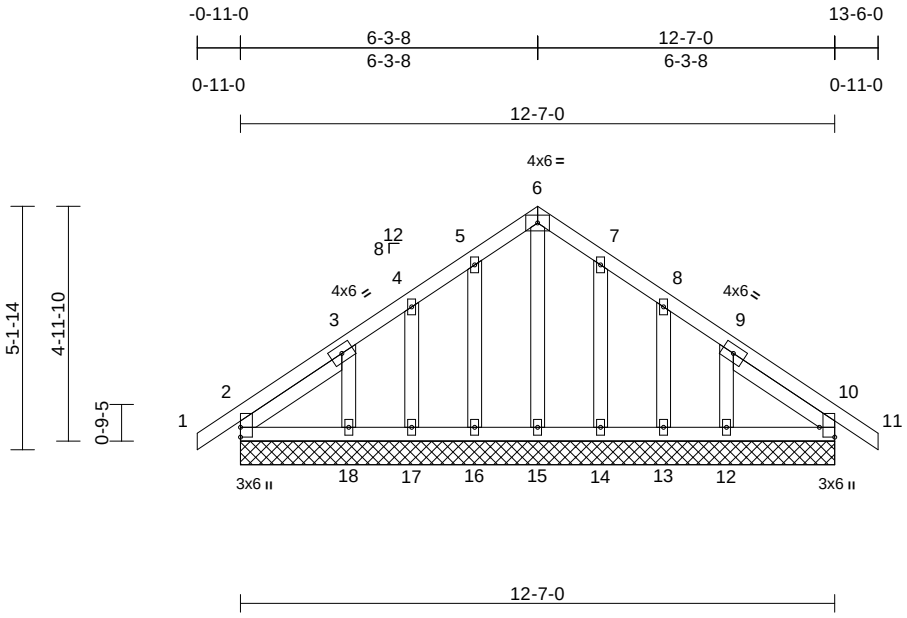

Scale = 1:48.8

Plate Offsets (X, Y): [10:Edge,0-3-14]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 83 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.2 -- 2-7-13, Right 2x4 SP No.2 -- 2-7-13

BRACING

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

REACTIONS (size) 2=12-7-0, 10=12-7-0, 12=12-7-0, 13=12-7-0, 14=12-7-0, 15=12-7-0, 16=12-7-0, 17=12-7-0, 18=12-7-0
Max Horiz 2=160 (LC 11)
Max Uplift 2=-40 (LC 13), 10=-12 (LC 13), 12=-129 (LC 13), 13=-56 (LC 13), 14=-63 (LC 13), 16=-66 (LC 12), 17=-54 (LC 12), 18=-137 (LC 12)
Max Grav 2=165 (LC 20), 10=162 (LC 1), 12=189 (LC 20), 13=100 (LC 20), 14=127 (LC 20), 15=124 (LC 13), 16=131 (LC 19), 17=97 (LC 19), 18=199 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/31, 2-3=-107/53, 3-4=-94/92, 4-5=-110/123, 5-6=-152/164, 6-7=-152/164, 7-8=-110/114, 8-9=-71/62, 9-10=-103/51, 10-11=0/31
BOT CHORD	2-18=-57/109, 17-18=-57/109, 16-17=-57/109, 15-16=-57/109, 14-15=-57/109, 13-14=-57/109, 12-13=-57/109, 10-12=-57/109
WEBS	6-15=-115/72, 5-16=-103/81, 4-17=-97/78, 3-18=-173/140, 7-14=-103/77, 8-13=-98/79, 9-12=-175/133

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-11-0 to 2-3-8, Exterior (2) 2-3-8 to 6-3-8, Corner (3) 6-3-8 to 9-3-8, Exterior (2) 9-3-8 to 13-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 (||) MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2, 12 lb uplift at joint 10, 66 lb uplift at joint 16, 54 lb uplift at joint 17, 137 lb uplift at joint 18, 63 lb uplift at joint 14, 56 lb uplift at joint 13, 129 lb uplift at joint 12, 40 lb uplift at joint 2 and 12 lb uplift at joint 10.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 23.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	C02	Common	2	1	I73111741 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:04
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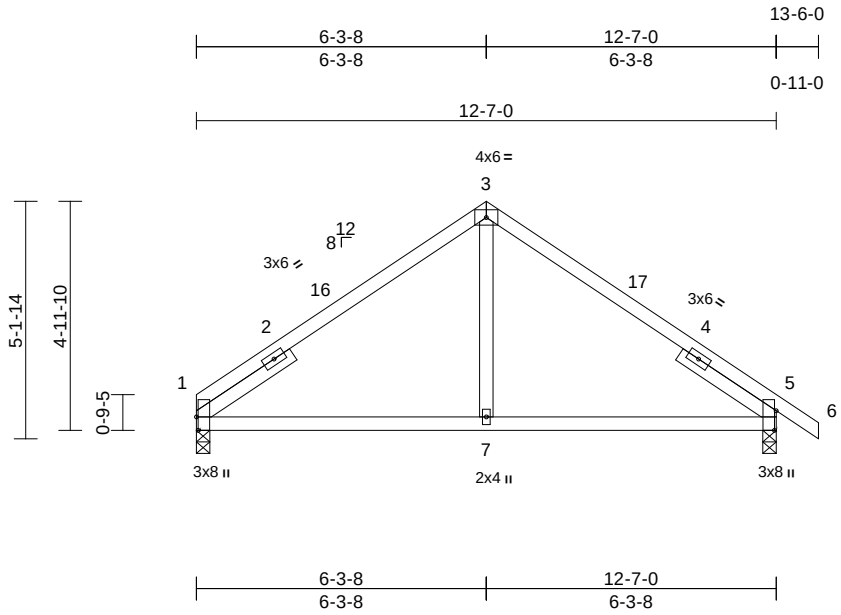

Scale = 1:50

Plate Offsets (X, Y): [1:0-3-8,Edge], [5:0-5-2,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.05	7-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.08	7-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.03	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.07	7-10	>999	240	Weight: 57 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2 -- 2-6-0

BRACING

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

REACTIONS (size) 1=0-3-8, 5=0-3-8
Max Horiz 1=-153 (LC 8)
Max Uplift 1=-122 (LC 12), 5=-153 (LC 13)
Max Grav 1=501 (LC 1), 5=560 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-3=-528/201, 3-5=-524/198, 5-6=0/31
BOT CHORD	1-7=-281/409, 5-7=-188/409
WEBS	3-7=0/275

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-3-8, Exterior (2) 6-3-8 to 9-3-8, Interior (1) 9-3-8 to 13-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 122 lb uplift at joint 1 and 153 lb uplift at joint 5.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	C03	Roof Special	1	1	Job Reference (optional)	I73111742

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:04 Page: 1
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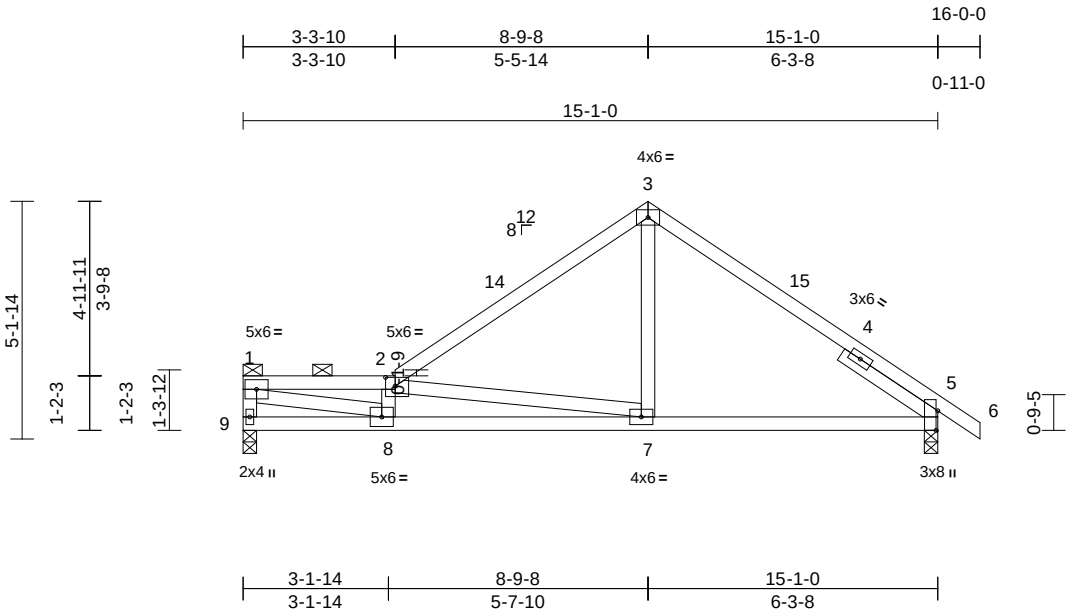

Scale = 1:50

Plate Offsets (X, Y): [2:0-2-8,0-2-4], [5:0-5-2,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.06	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.13	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.08	7-12	>999	240	Weight: 75 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 9-1:2x4 SP No.2
SLIDER Right 2x4 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-9-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-9 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 8-3-10 oc bracing.

REACTIONS (size) 5=0-3-8, 9=0-3-8
Max Horiz 9=-150 (LC 8)
Max Uplift 5=-168 (LC 13), 9=-165 (LC 12)
Max Grav 5=654 (LC 1), 9=596 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-536/182, 1-2=-1527/432, 2-3=-702/223, 3-5=-652/217, 5-6=0/31
BOT CHORD 8-9=-110/160, 7-8=-499/1588, 5-7=-190/510
WEBS 1-8=-411/1493, 2-8=-399/207, 2-7=-1093/431, 3-7=-28/405

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-3-10, Interior (1) 3-3-10 to 8-9-8, Exterior (2) 8-9-8 to 11-9-8, Interior (1) 11-9-8 to 16-0-0 zone; cantilever left and right exposed ; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 165 lb uplift at joint 9 and 168 lb uplift at joint 5.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	C04	Roof Special	1	1	I73111743
					Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:04 Page: 1
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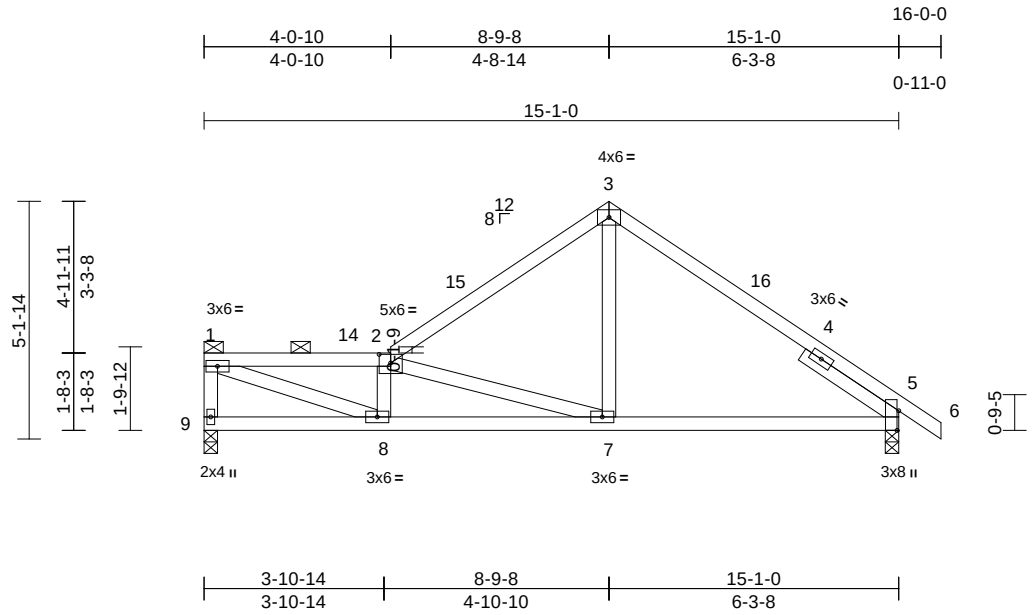

Scale = 1:50

Plate Offsets (X, Y): [2:0-3-0,0-2-4], [5:0-5-2,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	0.07	7-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.08	7-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 76 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 9-1:2x4 SP No.2
SLIDER Right 2x4 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-14 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 9-9-15 oc bracing.

REACTIONS (size) 5=0-3-8, 9=0-3-8
Max Horiz 9=-149 (LC 13)
Max Uplift 5=-167 (LC 13), 9=-167 (LC 12)
Max Grav 5=654 (LC 1), 9=596 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-545/200, 1-2=-1183/335, 2-3=-684/229, 3-5=-635/215, 5-6=0/31
BOT CHORD 8-9=-108/147, 7-8=-359/1219, 5-7=-193/504
WEBS 1-8=-329/1198, 2-8=-366/191, 2-7=-747/303, 3-7=-44/407

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-9-8, Exterior (2) 8-9-8 to 11-9-8, Interior (1) 11-9-8 to 16-0-0 zone; cantilever left and right exposed ; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 167 lb uplift at joint 9 and 167 lb uplift at joint 5.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	C05	Roof Special	1	1	Job Reference (optional)	I73111744

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:05 Page: 1
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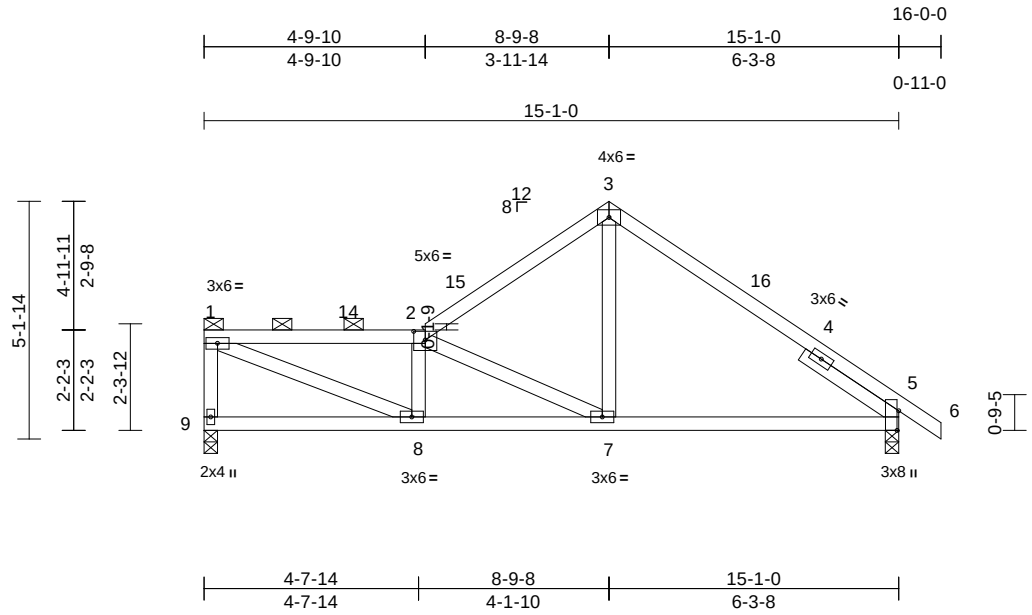

Scale = 1:50

Plate Offsets (X, Y): [2:0-3-0,0-2-4], [5:0-5-2,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	0.07	7-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.08	7-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 78 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 9-1:2x4 SP No.2
SLIDER Right 2x4 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-9 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 5=0-3-8, 9=0-3-8
Max Horiz 9=-164 (LC 13)
Max Uplift 5=-165 (LC 13), 9=-170 (LC 12)
Max Grav 5=654 (LC 1), 9=596 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-543/213, 1-2=-987/285, 2-3=-668/236, 3-5=-620/213, 5-6=0/31
BOT CHORD 8-9=-107/155, 7-8=-271/1011, 5-7=-195/500
WEBS 1-8=-283/1013, 2-8=-335/184, 2-7=-567/231, 3-7=-61/410

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-9-8, Exterior (2) 8-9-8 to 11-9-8, Interior (1) 11-9-8 to 16-0-0 zone; cantilever left and right exposed ; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 170 lb uplift at joint 9 and 165 lb uplift at joint 5.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	C06	Roof Special Girder	1	3	I73111745
					Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:05
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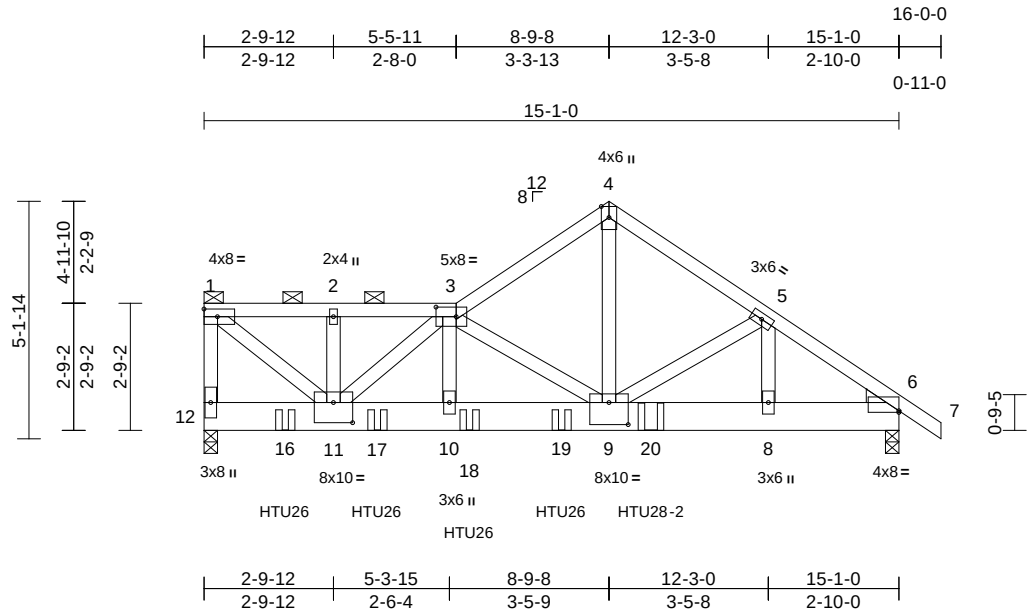


Scale = 1:50

Plate Offsets (X, Y): [3:0-5-4,0-2-8], [6:Edge,0-0-7], [9:0-5-0,0-5-12], [11:0-5-0,0-5-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.06	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.12	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.08	9-10	>999	240	Weight: 334 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E or 2x8 SP DSS
WEBS 2x4 SP No.2
WEDGE Right: 2x4 SP No.3

BRACING
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.): 1-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 6=0-3-8, 12=0-3-8
Max Horiz 12=-181 (LC 9)
Max Uplift 6=-1957 (LC 9), 12=-1959 (LC 8)
Max Grav 6=4743 (LC 1), 12=6177 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-5382/1754, 1-2=-6165/1983, 2-3=-6165/1983, 3-4=-7000/2827, 4-5=-7022/2844, 5-6=-6777/2865, 6-7=0/31
BOT CHORD 11-12=-102/211, 10-11=-3267/9773, 9-10=-3256/9658, 8-9=-2299/5537, 6-8=-2299/5537
WEBS 3-10=-196/1836, 4-9=-2985/7423, 3-9=-4665/1208, 5-9=-72/431, 5-8=-362/39, 3-11=-4776/1739, 2-11=-117/149, 1-11=-2579/8020

NOTES
1) 3-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.148"x3") nails as follows: 2x8 - 4 rows staggered at 0-6-0 oc.
Web chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1959 lb uplift at joint 12 and 1957 lb uplift at joint 6.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-3 from the left end to 7-9-3 to connect truss(es) to back face of bottom chord.
11) Use Simpson Strong-Tie HTU28-2 (26-10d Girder, 26-10d Truss, Single Ply Girder) or equivalent at 9-8-7 from the left end to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.

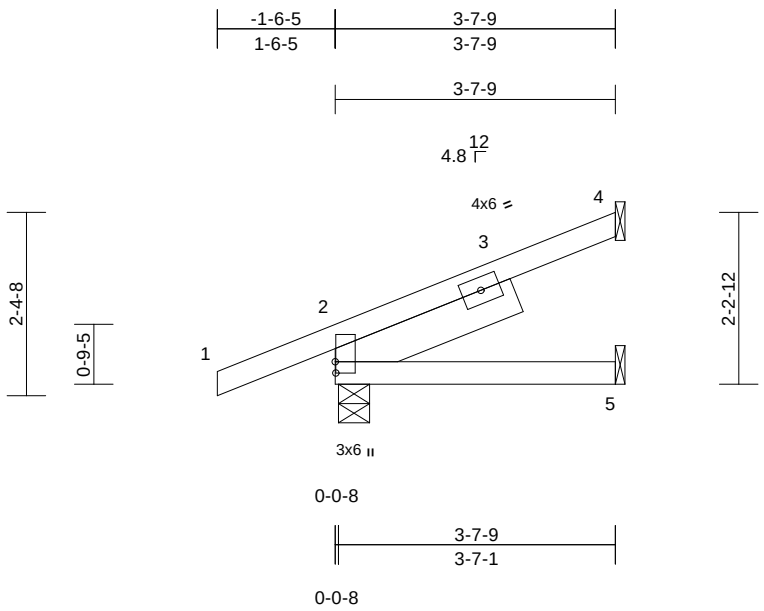
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-4=-60, 4-7=-60, 12-13=-20
Concentrated Loads (lb)
Vert: 16=-1587 (B), 17=-1587 (B), 18=-1587 (B), 19=-1587 (B), 20=-3323 (B)

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	CJ1	Jack-Open Girder	1	1	Job Reference (optional)	I73111746

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:05 Page: 1
ID:rN206iNq4w2dawflC4_4rozc_4U-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:29.8

Plate Offsets (X, Y): [2:0-1-12,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.01	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	5-8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 20 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-4-13, 4= Mechanical, 5= Mechanical
Max Horiz 2=114 (LC 12)
Max Uplift 2=-116 (LC 12), 4=-72 (LC 12), 5=-1 (LC 12)
Max Grav 2=154 (LC 1), 4=47 (LC 1), 5=44 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-4=-101/105
BOT CHORD 2-5=-87/18

NOTES
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 72 lb uplift at joint 4, 116 lb uplift at joint 2 and 1 lb uplift at joint 5.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

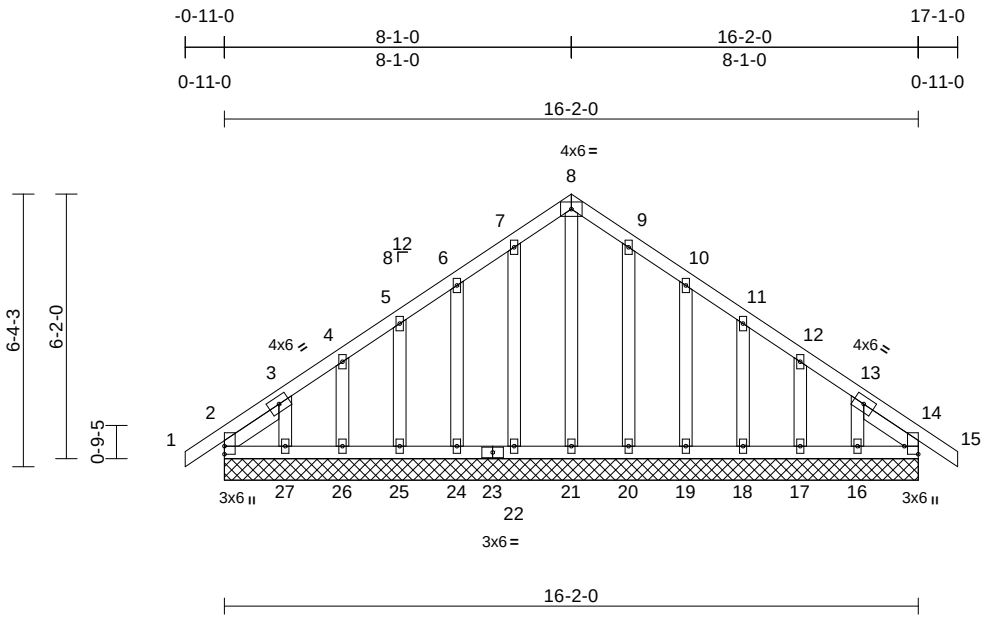
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60
Trapezoidal Loads (lb/ft)
Vert: 2=0 (F=30, B=30)-to-7=-12 (F=24, B=24), 7=-12 (F=24, B=24)-to-3=-32 (F=14, B=14), 3=-32 (F=14, B=14)-to-4=-54 (F=3, B=3), 6=0 (F=10, B=10)-to-8=-4 (F=8, B=8), 8=-4 (F=8, B=8)-to-5=-18 (F=1, B=1)

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	D01	Common Supported Gable	1	1	I73111747 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:05 Page: 1
ID:D2_yPArfDYwZN_MWY0hHymzbyxa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:53.7

Plate Offsets (X, Y): [14:Edge,0-3-14]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	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	0.09	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 114 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.2 -- 1-7-4, Right 2x4 SP No.2 -- 1-7-4

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

REACTIONS (size) 2=16-2-0, 14=16-2-0, 16=16-2-0, 17=16-2-0, 18=16-2-0, 19=16-2-0, 20=16-2-0, 21=16-2-0, 22=16-2-0, 24=16-2-0, 25=16-2-0, 26=16-2-0, 27=16-2-0
Max Horiz 2=200 (LC 11)
Max Uplift 2=-77 (LC 8), 14=-22 (LC 9), 16=-116 (LC 13), 17=-63 (LC 13), 18=-69 (LC 13), 19=-75 (LC 13), 20=-54 (LC 13), 22=-59 (LC 12), 24=-73 (LC 12), 25=-69 (LC 12), 26=-61 (LC 12), 27=-131 (LC 12)
Max Grav 2=170 (LC 20), 14=132 (LC 1), 16=132 (LC 20), 17=119 (LC 20), 18=121 (LC 20), 19=122 (LC 20), 20=121 (LC 20), 21=149 (LC 13), 22=126 (LC 19), 24=120 (LC 19), 25=121 (LC 19), 26=117 (LC 19), 27=149 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-49/52, 3-4=-125/120, 4-5=-108/104, 5-6=-94/119, 6-7=-125/154, 7-8=-162/187, 8-9=-162/187, 9-10=-125/142, 10-11=-78/86, 11-12=-49/41, 12-13=-60/50, 13-14=-33/35, 14-15=0/31
BOT CHORD 2-27=-92/146, 26-27=-92/146, 25-26=-92/146, 24-25=-92/146, 22-24=-92/146, 21-22=-92/146, 20-21=-92/146, 19-20=-92/146, 18-19=-92/146, 17-18=-92/146, 16-17=-92/146, 14-16=-92/146
WEBS 8-21=-138/80, 7-22=-100/75, 6-24=-112/90, 5-25=-105/84, 4-26=-105/83, 3-27=-136/126, 9-20=-95/70, 10-19=-112/91, 11-18=-105/84, 12-17=-106/83, 13-16=-139/114

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-11-0 to 2-1-0, Exterior (2) 2-1-0 to 8-1-0, Corner (3) 8-1-0 to 11-1-0, Exterior (2) 11-1-0 to 17-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 (||) MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 2, 22 lb uplift at joint 14, 59 lb uplift at joint 22, 73 lb uplift at joint 24, 69 lb uplift at joint 25, 61 lb uplift at joint 26, 131 lb uplift at joint 27, 54 lb uplift at joint 20, 75 lb uplift at joint 19, 69 lb uplift at joint 18, 63 lb uplift at joint 17, 116 lb uplift at joint 16, 77 lb uplift at joint 2 and 22 lb uplift at joint 14.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 14.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	D02	Common Girder	1	3	I73111748 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:06 Page: 1
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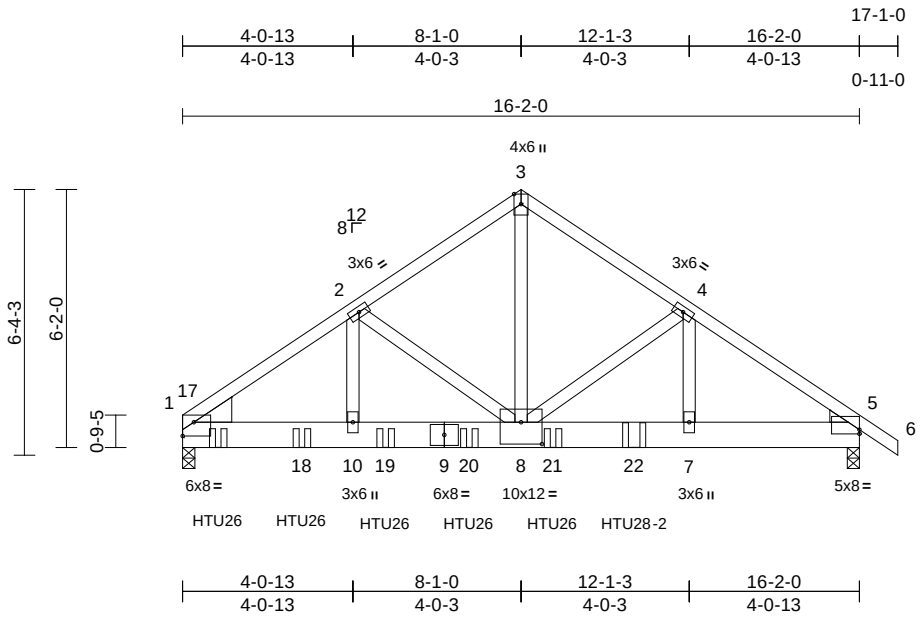


Scale = 1:55

Plate Offsets (X, Y): [1:Edge,0-3-15], [5:Edge,0-1-3], [8:0-6-0,0-6-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.06	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.12	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	7-8	>999	240	Weight: 340 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E or 2x8 SP DSS
WEBS 2x4 SP No.2
WEDGE Left: 2x8 SP 2400F 2.0E or DSS
Right: 2x4 SP No.3

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

REACTIONS (size) 1=0-3-8, 5=0-3-8
Max Horiz 1=-193 (LC 4)
Max Uplift 1=-2281 (LC 8), 5=-2206 (LC 9)
Max Grav 1=7338 (LC 1), 5=5361 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-8821/2826, 2-3=-6771/2527, 3-4=-6763/2523, 4-5=-8288/3492, 5-6=0/31
BOT CHORD 1-10=-2366/7293, 8-10=-2366/7293, 7-8=-2799/6794, 5-7=-2799/6794
WEBS 2-10=-346/2244, 2-8=-2132/501, 3-8=-2640/7155, 4-8=-1510/1182, 4-7=-1158/1628

NOTES
1) 3-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-4-0 oc.
Bottom chords connected with 10d (0.148"x3") nails as follows: 2x8 - 3 rows staggered at 0-4-0 oc.
Web chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 2281 lb uplift at joint 1 and 2206 lb uplift at joint 5.
8) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-10-3 from the left end to 8-10-3 to connect truss(es) to front face of bottom chord.
9) Use Simpson Strong-Tie HTU28-2 (26-16d Girder, 26-10d Truss, Single Ply Girder) or equivalent at 10-9-7 from the left end to connect truss(es) to front face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-6=-60, 11-14=-20
Concentrated Loads (lb)
Vert: 17=-1588 (F), 18=-1587 (F), 19=-1587 (F), 20=-1587 (F), 21=-1587 (F), 22=-3415 (F)

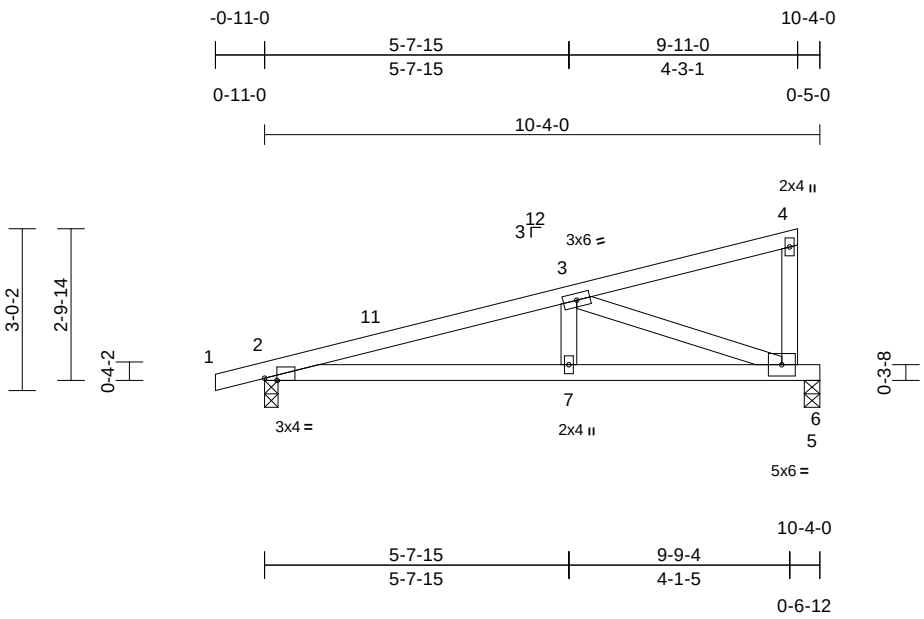
April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	E01	Monopitch	3	1	I73111749
					Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:06
ID:oG6K_SbF1rphFvxXJ1CdgBzbzyS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:42.9

Plate Offsets (X, Y): [2:0-2-12,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	0.10	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.08	7-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 43 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 6-4:2x4 SP No.2

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

REACTIONS (size) 2=0-3-0, 5=0-3-8
Max Horiz 2=143 (LC 8)
Max Uplift 2=-309 (LC 8), 5=-267 (LC 8)
Max Grav 2=464 (LC 1), 5=381 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/13, 2-3=-875/988, 3-4=-86/50, 4-6=-88/90
BOT CHORD 2-7=-1055/829, 6-7=-1055/829, 5-6=0/0
WEBS 3-7=-348/239, 3-6=-828/1042

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 9-9-4 zone; cantilever left and right exposed ; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 309 lb uplift at joint 2 and 267 lb uplift at joint 5.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	E02	Monopitch	1	1	I73111750 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:06 Page: 1
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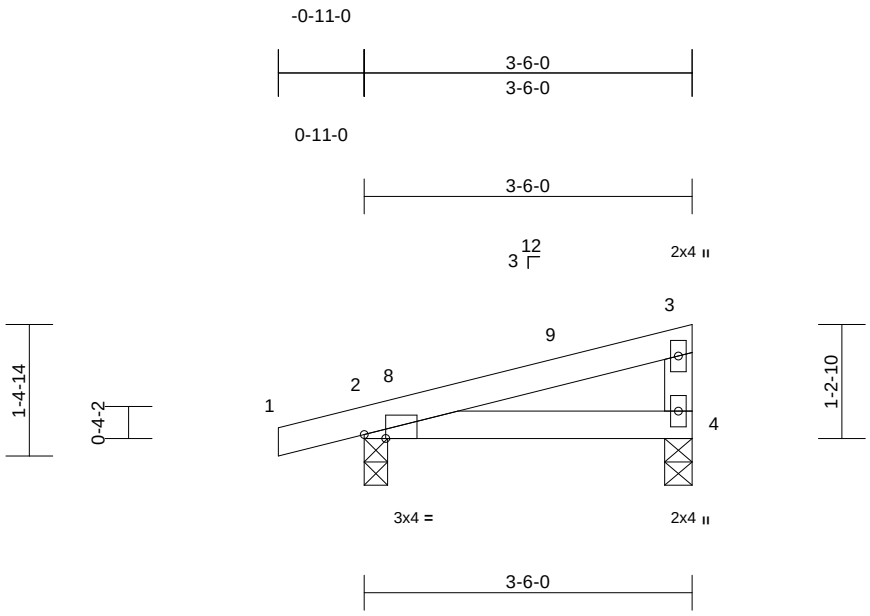

Scale = 1:24.6

Plate Offsets (X, Y): [2:0-2-12,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-0, 4=0-3-8
Max Horiz 2=60 (LC 8)
Max Uplift 2=-143 (LC 8), 4=-87 (LC 8)
Max Grav 2=197 (LC 1), 4=127 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/13, 2-3=-67/112, 3-4=-81/112
BOT CHORD 2-4=-131/66

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 3-4-4 zone; cantilever left and right exposed ; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 4 and 143 lb uplift at joint 2.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	E03	Monopitch	1	1	I73111751
					Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:06 Page: 1
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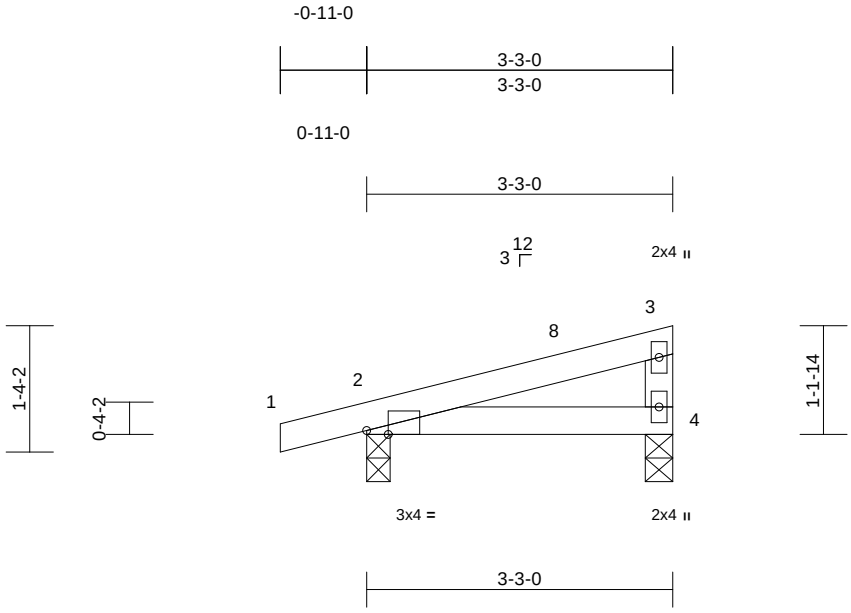

Scale = 1:24.5

Plate Offsets (X, Y): [2:0-2-12,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-0, 4=0-3-8
Max Horiz 2=56 (LC 8)
Max Uplift 2=-137 (LC 8), 4=-80 (LC 8)
Max Grav 2=187 (LC 1), 4=116 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/13, 2-3=-59/103, 3-4=-74/104
BOT CHORD 2-4=-120/60

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 3-1-4 zone; cantilever left and right exposed ; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 80 lb uplift at joint 4 and 137 lb uplift at joint 2.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	JA1	Jack-Open	2	1	I73111752 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:06 Page: 1
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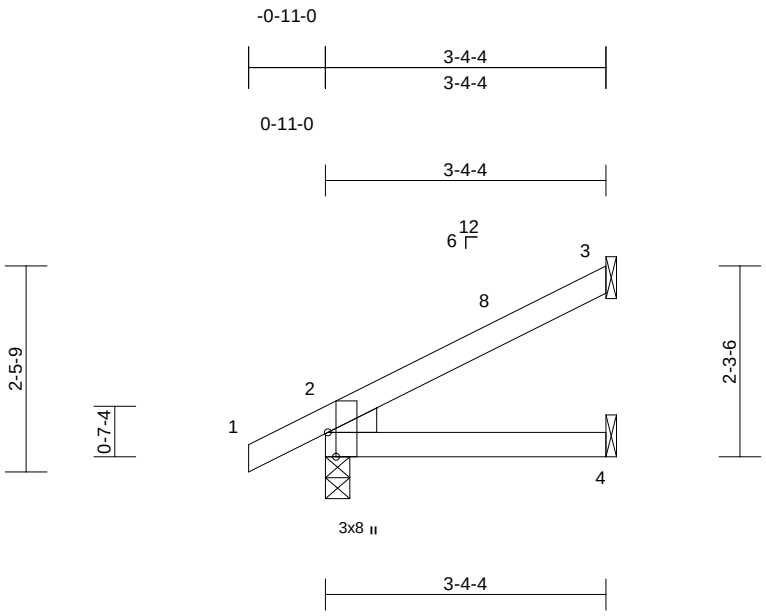

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Plate Offsets (X, Y): [2:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE Left: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=106 (LC 12)
Max Uplift 2=-51 (LC 12), 3=-69 (LC 12), 4=-3 (LC 12)
Max Grav 2=194 (LC 1), 3=81 (LC 1), 4=59 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-3=-63/34
BOT CHORD 2-4=-89/61

NOTES
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 3-3-8 zone; cantilever left and right exposed ; end vertical left and right 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 69 lb uplift at joint 3, 51 lb uplift at joint 2 and 3 lb uplift at joint 4.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	JB1	Jack-Closed	37	1	Job Reference (optional)	I73111753

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:06 Page: 1
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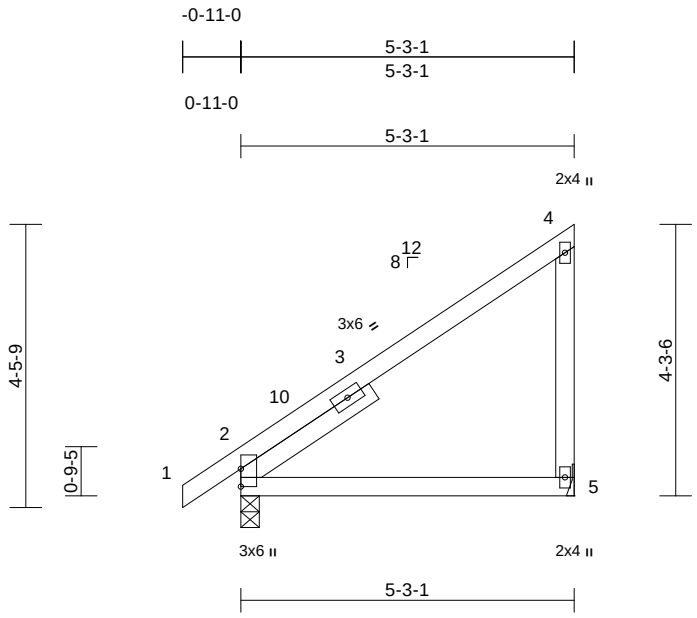

Scale = 1:36.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	0.07	5-8	>879	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.07	5-8	>901	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 28 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical
Max Horiz 2=205 (LC 12)
Max Uplift 2=-29 (LC 12), 5=-145 (LC 12)
Max Grav 2=264 (LC 1), 5=230 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-4=-311/150, 4-5=-199/156
BOT CHORD 2-5=-280/250

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 5-1-5 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 5 and 29 lb uplift at joint 2.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	JB2	Jack-Closed	1	1	Job Reference (optional)	I73111754

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

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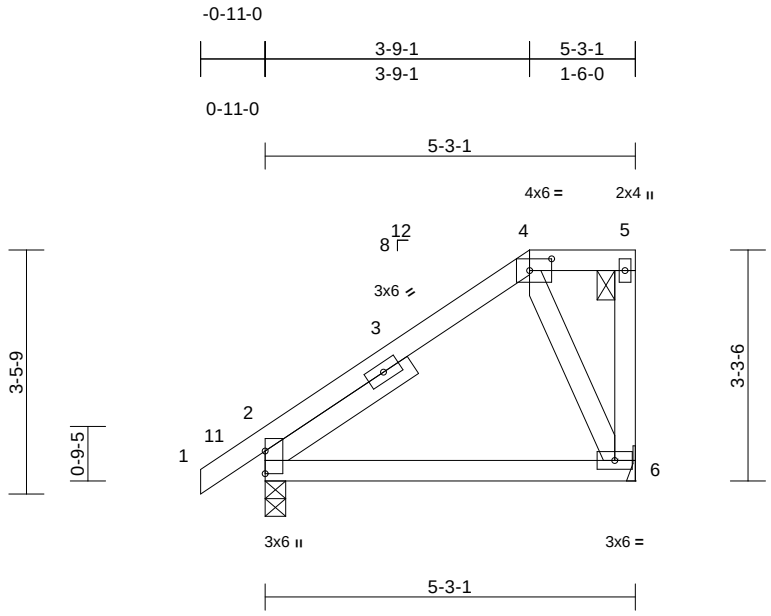

Scale = 1:32.7

Plate Offsets (X, Y): [4:0-3-12,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.02	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.05	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.03	6-9	>999	240	Weight: 31 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 6-4:2x4 SP No.3
SLIDER	Left 2x4 SP No.2 -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-3-1 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 6= Mechanical
Max Horiz 2=159 (LC 12)
Max Uplift 2=-55 (LC 12), 6=-88 (LC 12)
Max Grav 2=264 (LC 1), 6=199 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/31, 2-4=-318/60, 4-5=0/0, 5-6=-41/47
BOT CHORD	2-6=-184/122
WEBS	4-6=-157/137

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 3-9-1, Exterior (2) 3-9-1 to 5-1-5 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 2 and 88 lb uplift at joint 6.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	JB3	Jack-Closed Girder	1	1	I73111755 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:07 Page: 1
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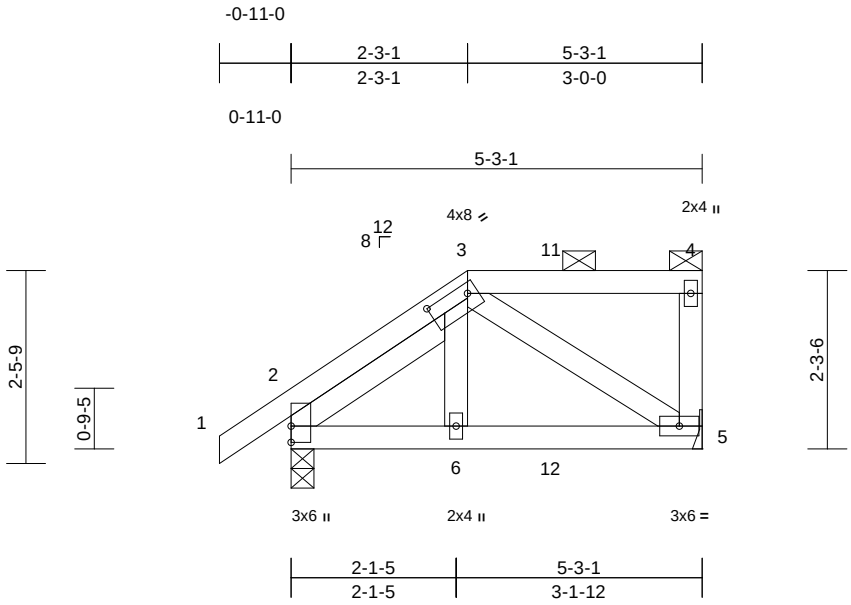

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Plate Offsets (X, Y): [3:0-6-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.00	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.00	5-6	>999	240	Weight: 32 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 4-5:2x4 SP No.2
SLIDER Left 2x4 SP No.2 -- 2-5-3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-1 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical
Max Horiz 2=107 (LC 8)
Max Uplift 2=-172 (LC 8), 5=-161 (LC 5)
Max Grav 2=306 (LC 1), 5=247 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-137/126, 3-4=-1/0, 4-5=-94/68
BOT CHORD 2-6=-165/181, 5-6=-164/174
WEBS 3-6=-12/153, 3-5=-212/200

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 2 and 161 lb uplift at joint 5.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 114 lb down and 145 lb up at 2-3-1, and 39 lb down and 51 lb up at 3-3-13 on top chord, and 34 lb down and 34 lb up at 2-3-1, and 23 lb down and 15 lb up at 3-3-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 3=-21 (B), 6=-24 (B), 11=-21 (B), 12=-23 (B)

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	V01	Valley	1	1	I73111756 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

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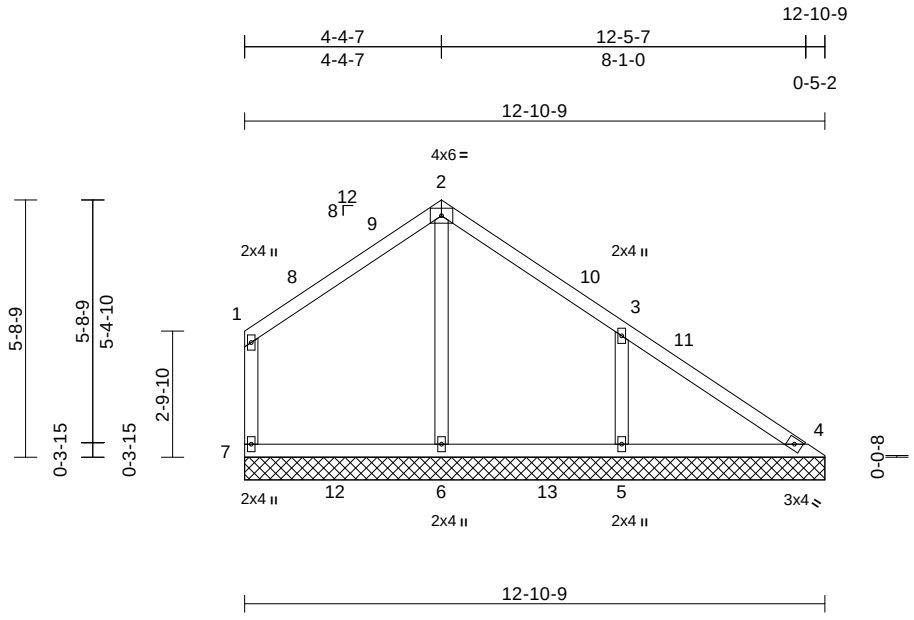

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 56 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING

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

REACTIONS (size) 4=12-10-9, 5=12-10-9, 6=12-10-9, 7=12-10-9
Max Horiz 7=-225 (LC 10)
Max Uplift 4=-51 (LC 9), 5=-253 (LC 13), 6=-15 (LC 8), 7=-108 (LC 12)
Max Grav 4=193 (LC 19), 5=445 (LC 20), 6=426 (LC 20), 7=238 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-7=-224/168, 1-2=-193/183, 2-3=-206/206, 3-4=-232/186
BOT CHORD	6-7=-152/203, 5-6=-152/203, 4-5=-152/203
WEBS	2-6=-227/80, 3-5=-371/295

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 4-4-7, Exterior (2) 4-4-7 to 7-4-7, Interior (1) 7-4-7 to 12-5-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 7, 51 lb uplift at joint 4, 15 lb uplift at joint 6 and 253 lb uplift at joint 5.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	V02	Valley	1	1	I73111757 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:07 Page: 1
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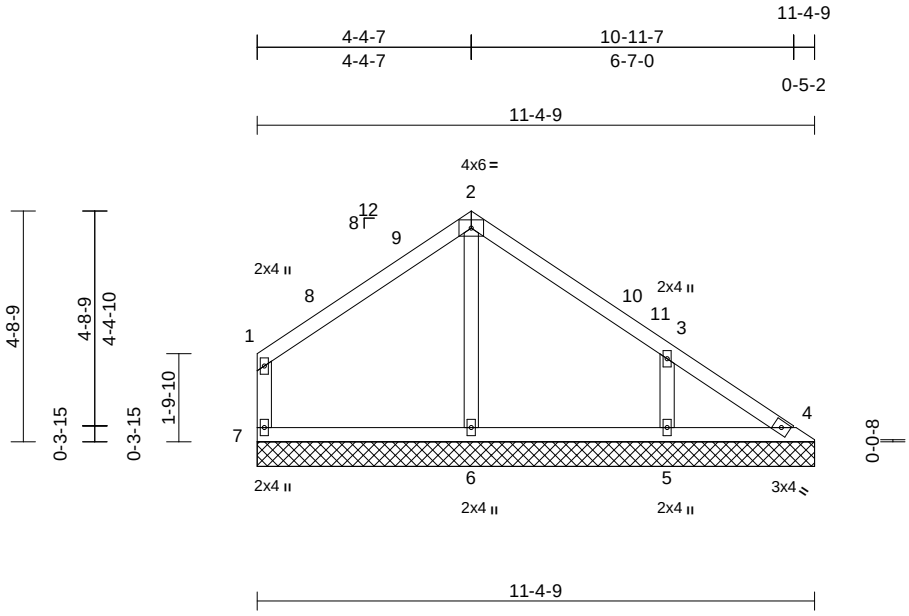

Scale = 1:47

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 47 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS (size) 4=11-4-9, 5=11-4-9, 6=11-4-9, 7=11-4-9
Max Horiz 7=-174 (LC 8)
Max Uplift 4=-66 (LC 9), 5=-211 (LC 13), 6=-9 (LC 8), 7=-121 (LC 12)
Max Grav 4=148 (LC 19), 5=352 (LC 20), 6=305 (LC 20), 7=227 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=-223/161, 1-2=-192/168, 2-3=-199/187, 3-4=-207/166
BOT CHORD 6-7=-128/173, 5-6=-128/173, 4-5=-128/173
WEBS 2-6=-217/66, 3-5=-311/250

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 4-4-7, Exterior (2) 4-4-7 to 7-4-7, Interior (1) 7-4-7 to 10-11-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 7, 66 lb uplift at joint 4, 9 lb uplift at joint 6 and 211 lb uplift at joint 5.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	V03	Valley	1	1	Job Reference (optional)	I73111758

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:08
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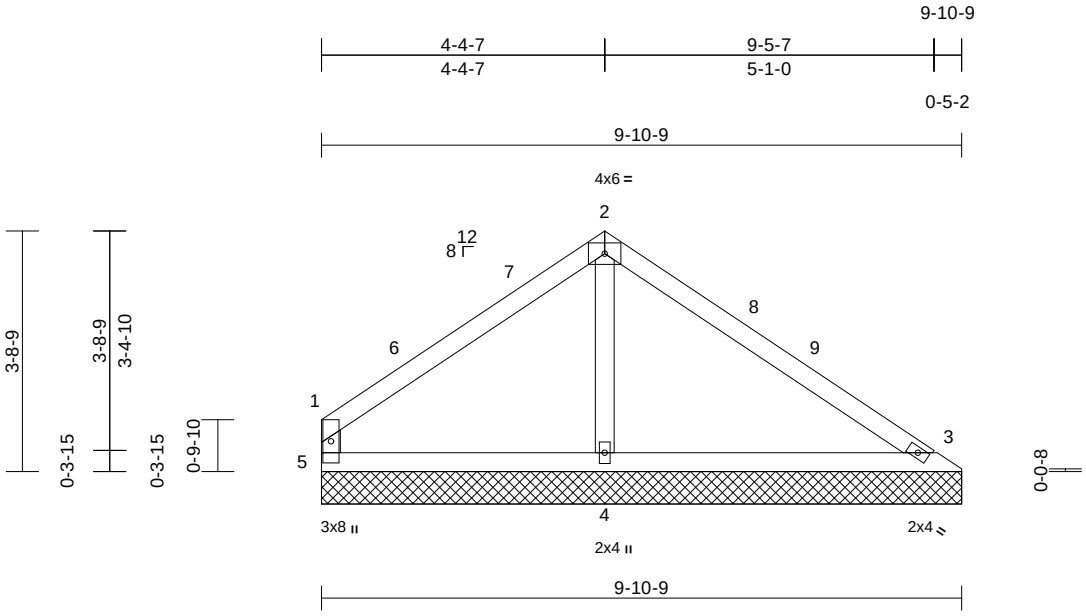

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 37 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING

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

REACTIONS (size) 3=9-10-9, 4=9-10-9, 5=9-10-9
Max Horiz 5=-123 (LC 10)
Max Uplift 3=-98 (LC 12), 4=-43 (LC 13), 5=-132 (LC 12)
Max Grav 3=227 (LC 1), 4=363 (LC 20), 5=230 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-5=-225/157, 1-2=-207/158, 2-3=-226/178
BOT CHORD	4-5=-113/164, 3-4=-113/164
WEBS	2-4=-234/92

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 4-4-7, Exterior (2) 4-4-7 to 7-4-7, Interior (1) 7-4-7 to 9-5-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 5, 98 lb uplift at joint 3 and 43 lb uplift at joint 4.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	V04	Valley	1	1	Job Reference (optional)	I73111759

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

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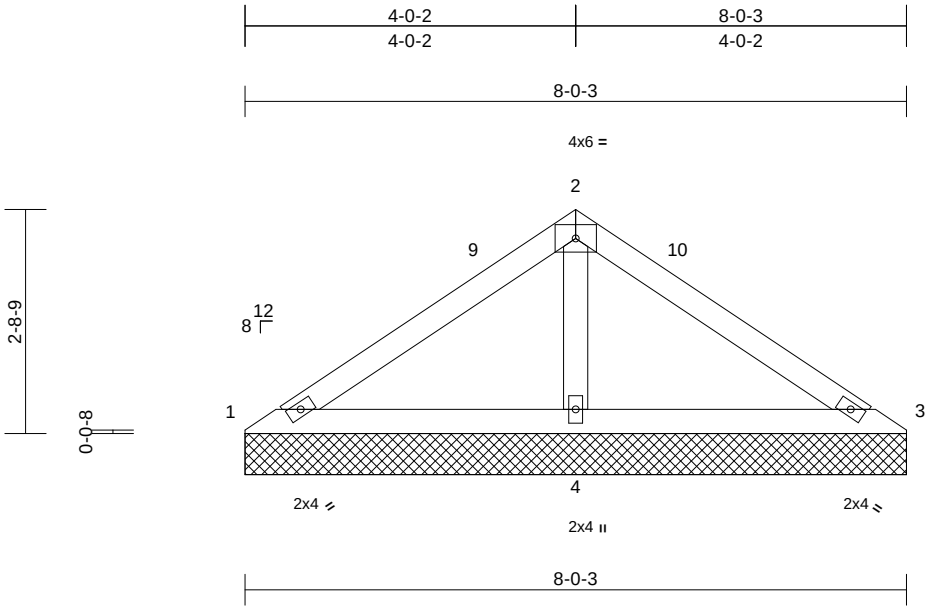

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 28 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 8-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=8-0-3, 3=8-0-3, 4=8-0-3
Max Horiz 1=-85 (LC 8)
Max Uplift 1=-8 (LC 12), 3=-22 (LC 13), 4=-147 (LC 12)
Max Grav 1=79 (LC 23), 3=79 (LC 24), 4=537 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-82/224, 2-3=-81/220
BOT CHORD 1-4=-210/135, 3-4=-210/135
WEBS 2-4=-421/208

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 4-0-14, Exterior (2) 4-0-14 to 7-2-2, Interior (1) 7-2-2 to 8-0-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1, 22 lb uplift at joint 3 and 147 lb uplift at joint 4.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	V05	Valley	1	1	I73111760 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:08 Page: 1
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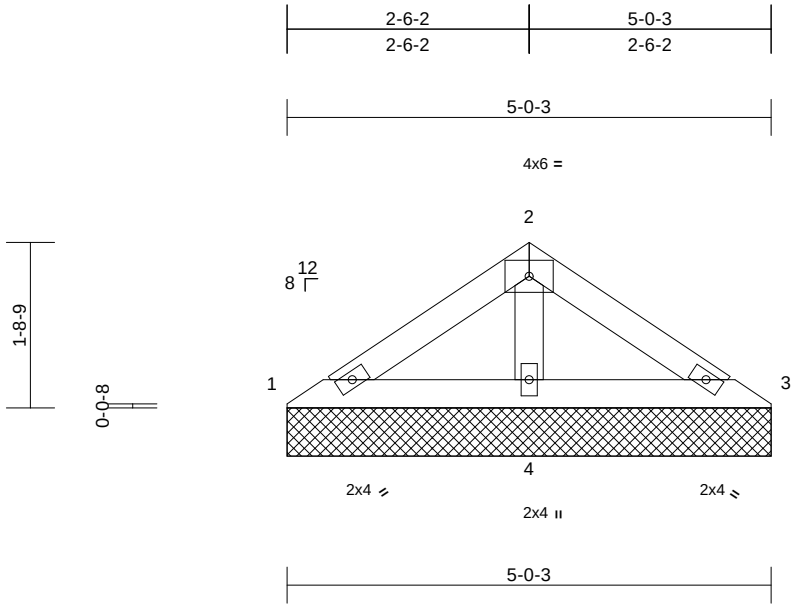

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 16 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=5-0-3, 3=5-0-3, 4=5-0-3
Max Horiz 1=-51 (LC 10)
Max Uplift 1=-13 (LC 12), 3=-22 (LC 13), 4=-75 (LC 12)
Max Grav 1=64 (LC 23), 3=64 (LC 24), 4=297 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-61/103, 2-3=-61/97
BOT CHORD 1-4=-107/78, 3-4=-107/78
WEBS 2-4=-186/92

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1, 22 lb uplift at joint 3 and 75 lb uplift at joint 4.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	V06	Valley	1	1	I73111761
					Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

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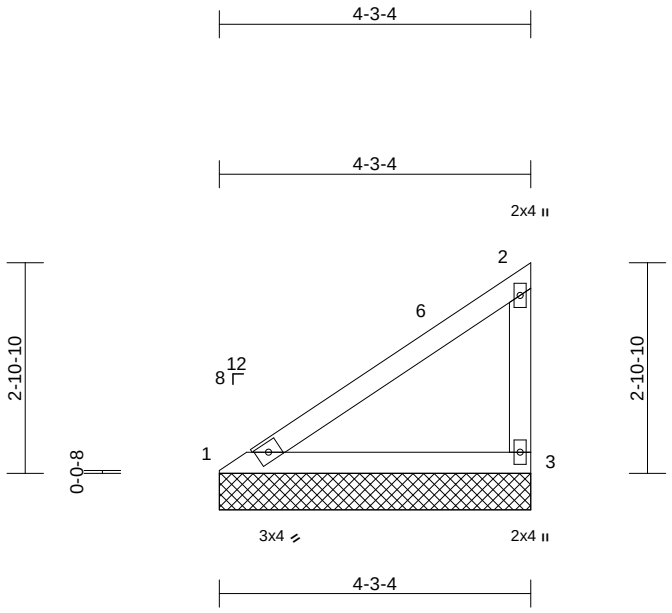

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 17 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=4-3-4, 3=4-3-4
Max Horiz 1=130 (LC 9)
Max Uplift 1=-36 (LC 12), 3=-80 (LC 12)
Max Grav 1=165 (LC 1), 3=193 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-230/133, 2-3=-174/136
BOT CHORD 1-3=-188/294

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 4-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 3 and 36 lb uplift at joint 1.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	V07	Valley	1	1	I73111762 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

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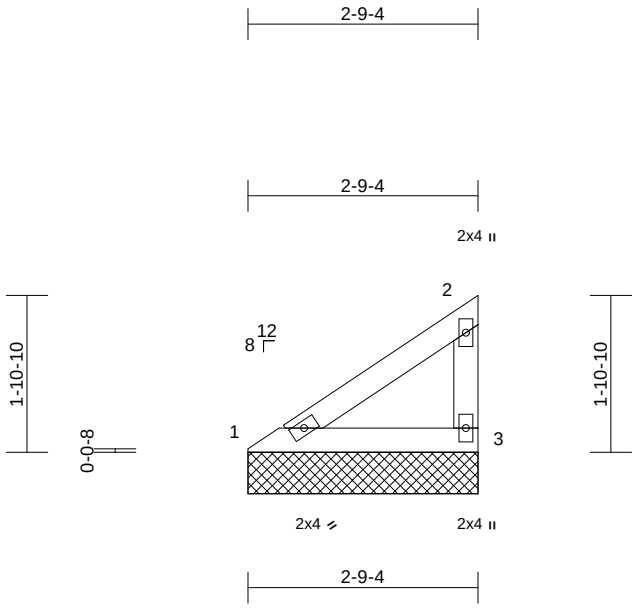

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 10 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=2-9-4, 3=2-9-4
Max Horiz 1=79 (LC 9)
Max Uplift 1=-24 (LC 12), 3=-50 (LC 12)
Max Grav 1=105 (LC 1), 3=122 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-133/80, 2-3=-105/79
BOT CHORD 1-3=-110/170

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 3 and 24 lb uplift at joint 1.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	V08	Valley	1	1	I73111763 Job Reference (optional)

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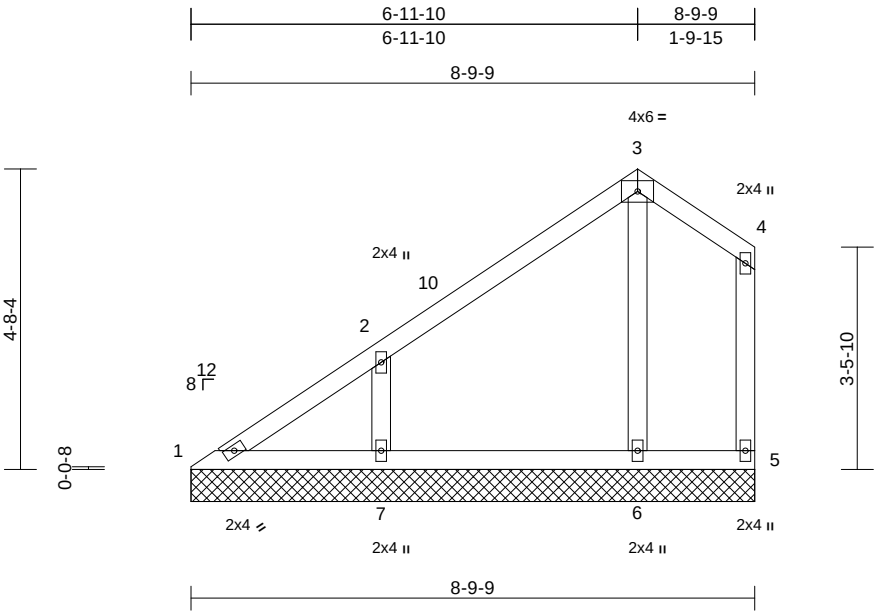

Scale = 1:35.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	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(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 41 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS (size) 1=8-9-9, 5=8-9-9, 6=8-9-9, 7=8-9-9
Max Horiz 1=207 (LC 9)
Max Uplift 1=-31 (LC 8), 5=-55 (LC 8), 6=-56 (LC 9), 7=-204 (LC 12)
Max Grav 1=126 (LC 20), 5=79 (LC 20), 6=277 (LC 19), 7=371 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-219/229, 2-3=-149/116, 3-4=-118/136, 4-5=-102/103
BOT CHORD 1-7=-107/170, 6-7=-75/82, 5-6=-75/82
WEBS 3-6=-261/187, 2-7=-331/247

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-6, Interior (1) 3-0-6 to 7-0-6, Exterior (2) 7-0-6 to 8-8-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 5, 31 lb uplift at joint 1, 56 lb uplift at joint 6 and 204 lb uplift at joint 7.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	V09	Valley	1	1	I73111764
					Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

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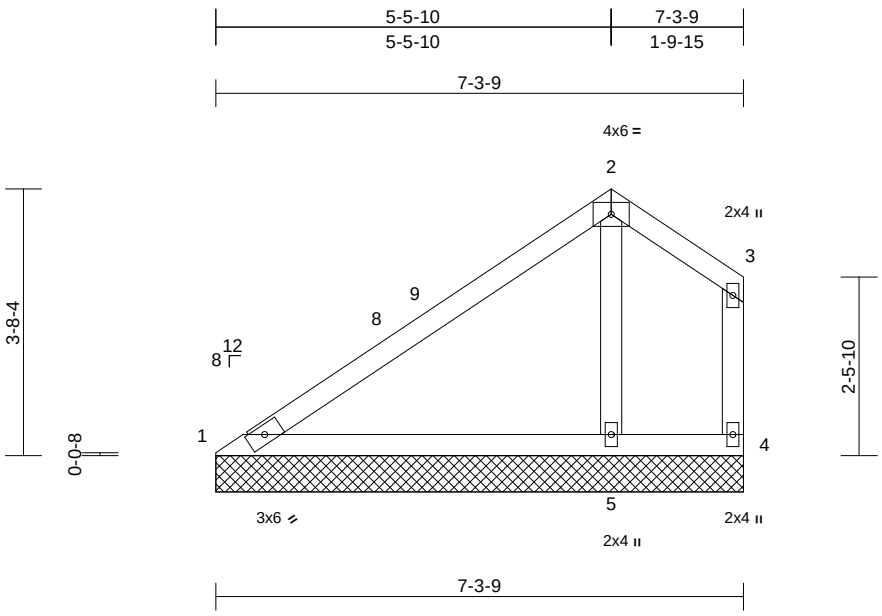

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 31 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING

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

REACTIONS (size) 1=7-3-9, 4=7-3-9, 5=7-3-9
Max Horiz 1=156 (LC 9)
Max Uplift 1=-34 (LC 12), 4=-118 (LC 19), 5=-173 (LC 12)
Max Grav 1=175 (LC 1), 4=64 (LC 9), 5=526 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-244/147, 2-3=-63/99, 3-4=-60/70
BOT CHORD	1-5=-164/299, 4-5=-75/68
WEBS	2-5=-366/233

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 5-6-6, Exterior (2) 5-6-6 to 7-2-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 4, 34 lb uplift at joint 1 and 173 lb uplift at joint 5.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	V10	Valley	1	1	Job Reference (optional)	I73111765

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:09
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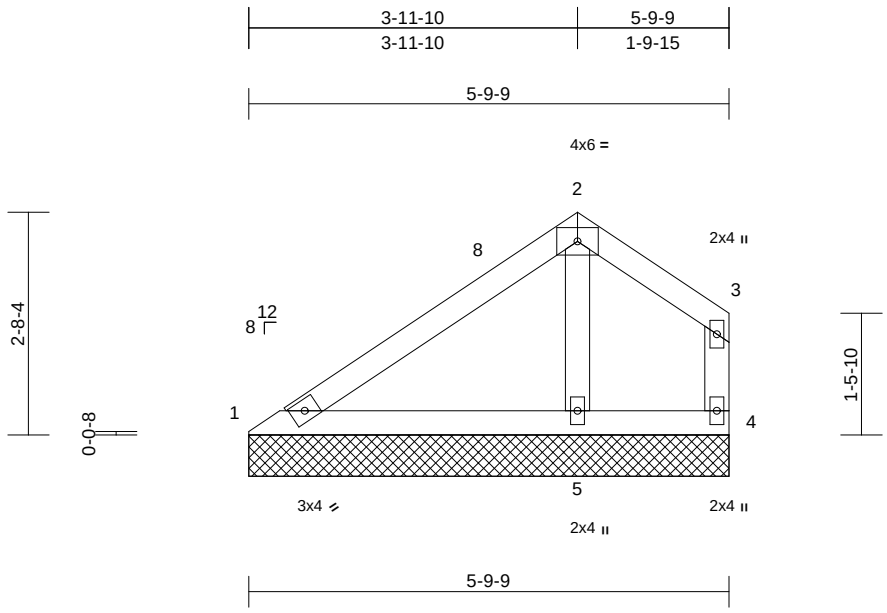

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-9-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=5-9-9, 4=5-9-9, 5=5-9-9
Max Horiz 1=105 (LC 9)
Max Uplift 1=-40 (LC 12), 4=-41 (LC 8), 5=-69 (LC 12)
Max Grav 1=143 (LC 23), 4=60 (LC 20), 5=304 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-211/100, 2-3=-74/83, 3-4=-91/81
BOT CHORD	1-5=-134/227, 4-5=-30/33
WEBS	2-5=-165/102

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 4-0-6, Exterior (2) 4-0-6 to 5-8-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 4, 40 lb uplift at joint 1 and 69 lb uplift at joint 5.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	V11	Valley	1	1	I73111766
					Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 E Dec 4 2024 Print: 8.830 E Dec 4 2024 MiTek Industries, Inc. Wed Apr 30 08:24:20 Page: 1
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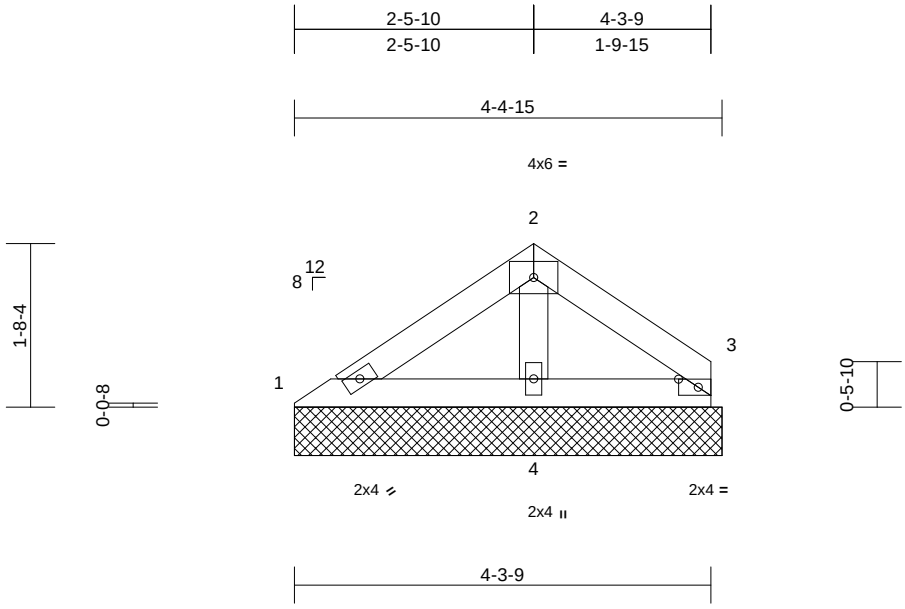

Scale = 1:16

Plate Offsets (X, Y): [3:0-1-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 15 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=45/4-4-15, 3=0/4-4-15, 4=299/4-4-15
Max Horiz 1=49 (LC 9)
Max Uplift 1=-20 (LC 12), 4=-68 (LC 13)
Max Grav 1=72 (LC 23), 4=299 (LC 1)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1 and 68 lb uplift at joint 4.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-60, 1-5=-20
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-3=-50, 1-5=-20
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-20, 2-3=-20, 1-5=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=46, 2-3=46, 1-5=-12
Horz: 1-2=-58, 2-3=58
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=46, 2-3=46, 1-5=-12
Horz: 1-2=-58, 2-3=58
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-65, 2-3=-65, 1-5=-20
Horz: 1-2=45, 2-3=-45
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-65, 2-3=-65, 1-5=-20
Horz: 1-2=45, 2-3=-45
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-16, 2-3=18, 1-5=-12
Horz: 1-2=4, 2-3=30
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=18, 2-3=-16, 1-5=-12
Horz: 1-2=-30, 2-3=-4
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-39, 2-3=-5, 1-5=-20
Horz: 1-2=19, 2-3=15
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-5, 2-3=-39, 1-5=-20
Horz: 1-2=-15, 2-3=-19

April 30,2025

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=40, 2-3=18, 1-5=-12
Horz: 1-2=-52, 2-3=30

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=18, 2-3=40, 1-5=-12
Horz: 1-2=-30, 2-3=52

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=40, 2-3=18, 1-5=-12
Horz: 1-2=-52, 2-3=30

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=18, 2-3=40, 1-5=-12
Horz: 1-2=-30, 2-3=52

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=17, 2-3=-5, 1-5=-20
Horz: 1-2=-37, 2-3=15

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-5, 2-3=17, 1-5=-20
Horz: 1-2=-15, 2-3=37

18) Dead: Lumber Increase=0.90, Plate Increase=0.90
Uniform Loads (lb/ft)
Vert: 2-5=-20, 2-3=-20

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-64, 2-3=-39, 1-5=-20
Horz: 1-2=14, 2-3=11

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-39, 2-3=-64, 1-5=-20
Horz: 1-2=-11, 2-3=-14

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-22, 2-3=-39, 1-5=-20
Horz: 1-2=-28, 2-3=11

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-39, 2-3=-22, 1-5=-20
Horz: 1-2=-11, 2-3=28

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-20, 1-5=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 2-5=-20, 2-3=-60

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-3=-20, 1-5=-20

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 2-5=-20, 2-3=-50

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	VA1	Valley	1	1	I73111767 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:09 Page: 1
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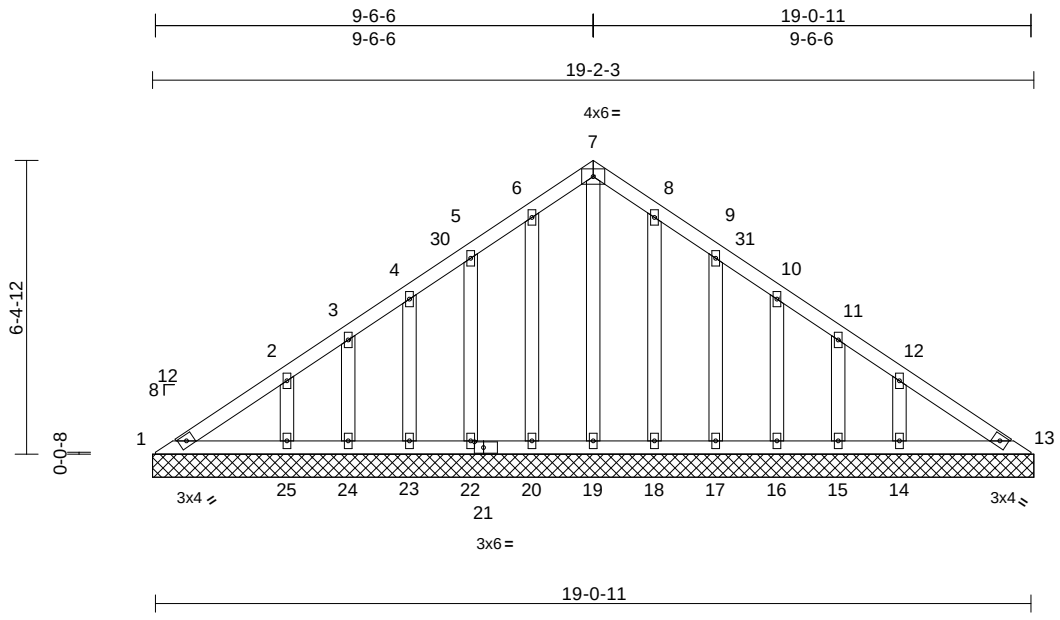

Scale = 1:50.2

Plate Offsets (X, Y): [21:0-2-6,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 117 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS (size) 1=19-2-3, 13=19-2-3, 14=19-2-3, 15=19-2-3, 16=19-2-3, 17=19-2-3, 18=19-2-3, 19=19-2-3, 20=19-2-3, 22=19-2-3, 23=19-2-3, 24=19-2-3, 25=19-2-3
Max Horiz 1=208 (LC 9)
Max Uplift 1=-35 (LC 8), 14=-113 (LC 13), 15=-52 (LC 13), 16=-71 (LC 13), 17=-75 (LC 13), 18=-53 (LC 13), 20=-58 (LC 12), 22=-73 (LC 12), 23=-72 (LC 12), 24=-49 (LC 12), 25=-118 (LC 12)
Max Grav 1=117 (LC 20), 13=87 (LC 24), 14=248 (LC 20), 15=66 (LC 20), 16=133 (LC 20), 17=118 (LC 20), 18=125 (LC 20), 19=175 (LC 22), 20=131 (LC 19), 22=116 (LC 19), 23=133 (LC 19), 24=64 (LC 19), 25=254 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-180/182, 2-3=-123/136, 3-4=-94/126, 4-5=-78/128, 5-6=-95/163, 6-7=-134/185, 7-8=-134/175, 8-9=-95/127, 9-10=-49/80, 10-11=-14/63, 11-12=-47/63, 12-13=-126/123
BOT CHORD 1-25=-129/155, 24-25=-129/155, 23-24=-129/155, 22-23=-129/155, 20-22=-129/155, 19-20=-129/155, 18-19=-129/155, 17-18=-129/155, 16-17=-129/155, 15-16=-129/155, 14-15=-129/155, 13-14=-129/155
WEBS 7-19=-148/51, 6-20=-104/74, 5-22=-110/90, 4-23=-109/86, 3-24=-80/72, 2-25=-174/120, 8-18=-98/69, 9-17=-110/92, 10-16=-109/85, 11-15=-80/73, 12-14=-174/118

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 2-11-2, Interior (1) 2-11-2 to 9-7-2, Exterior (2) 9-7-2 to 12-7-2, Interior (1) 12-7-2 to 19-2-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 (||) MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 1, 58 lb uplift at joint 20, 73 lb uplift at joint 22, 72 lb uplift at joint 23, 49 lb uplift at joint 24, 118 lb uplift at joint 25, 53 lb uplift at joint 18, 75 lb uplift at joint 17, 71 lb uplift at joint 16, 52 lb uplift at joint 15 and 113 lb uplift at joint 14.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 13.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	VA2	Valley	1	1	Job Reference (optional)	I73111768

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:10 Page: 1
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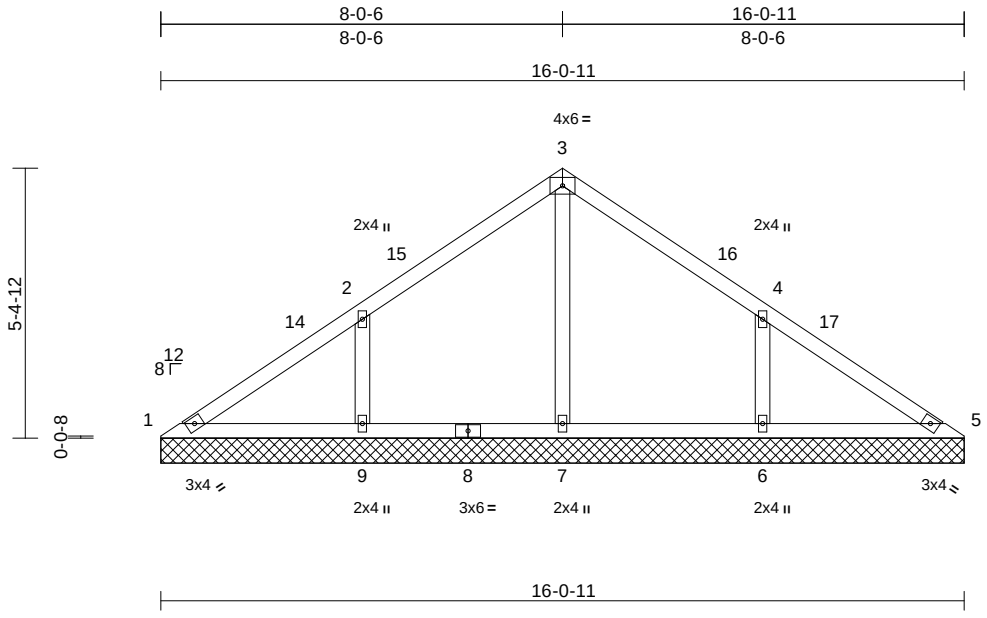

Scale = 1:46

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 65 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS (size) 1=16-0-11, 5=16-0-11, 6=16-0-11, 7=16-0-11, 9=16-0-11
Max Horiz 1=-174 (LC 8)
Max Uplift 1=-23 (LC 13), 6=-237 (LC 13), 9=-240 (LC 12)
Max Grav 1=113 (LC 20), 5=101 (LC 24), 6=423 (LC 20), 7=346 (LC 1), 9=426 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-151/207, 2-3=-51/162, 3-4=-51/141, 4-5=-119/155
BOT CHORD 1-9=-144/152, 7-9=-144/133, 6-7=-144/133, 5-6=-144/133
WEBS 3-7=-280/38, 2-9=-344/268, 4-6=-344/266

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 8-1-2, Exterior (2) 8-1-2 to 11-1-2, Interior (1) 11-1-2 to 16-1-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1, 240 lb uplift at joint 9 and 237 lb uplift at joint 6.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	VA3	Valley	1	1	Job Reference (optional)	I73111769

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:10
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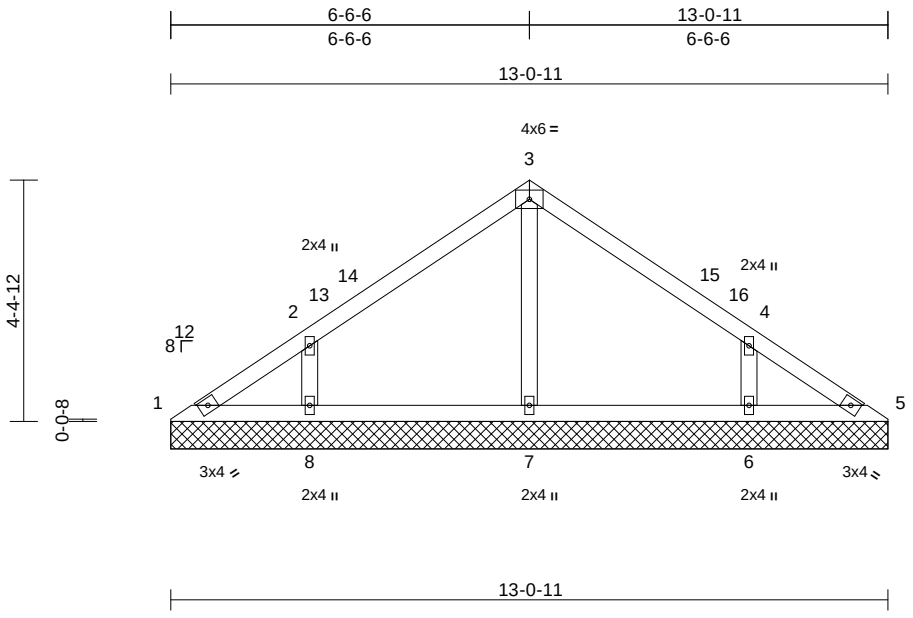

Scale = 1:42

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 50 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS (size) 1=13-0-11, 5=13-0-11, 6=13-0-11, 7=13-0-11, 8=13-0-11
Max Horiz 1=-141 (LC 8)
Max Uplift 1=-29 (LC 8), 5=-4 (LC 12), 6=-196 (LC 13), 8=-200 (LC 12)
Max Grav 1=98 (LC 20), 5=74 (LC 1), 6=350 (LC 20), 7=278 (LC 1), 8=353 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-134/121, 2-3=-123/132, 3-4=-123/117, 4-5=-96/67
BOT CHORD 1-8=-49/106, 7-8=-45/81, 6-7=-45/81, 5-6=-45/81
WEBS 3-7=-195/33, 2-8=-310/246, 4-6=-310/244

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 6-7-2, Exterior (2) 6-7-2 to 9-7-2, Interior (1) 9-7-2 to 13-1-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 1, 4 lb uplift at joint 5, 200 lb uplift at joint 8 and 196 lb uplift at joint 6.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders
4619364	VA4	Valley	1	1	I73111770 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:10 Page: 1
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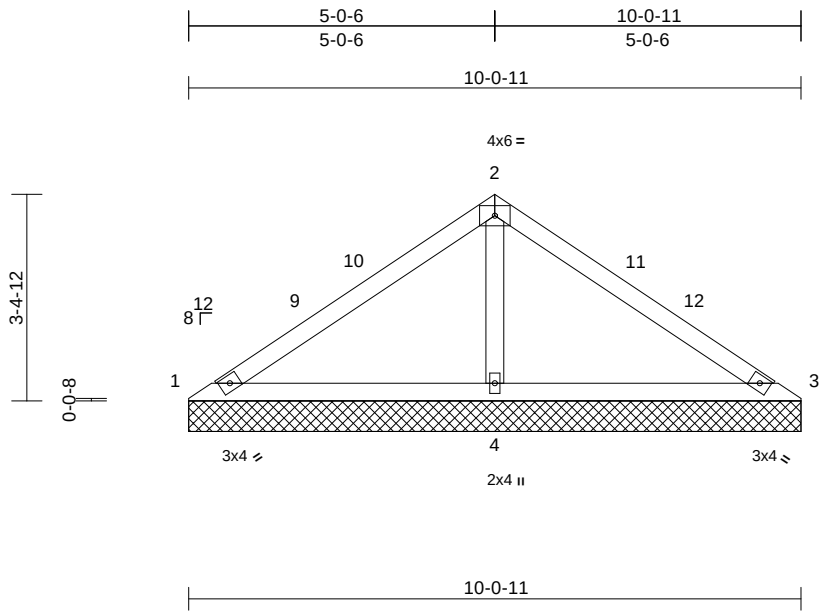

Scale = 1:37.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 35 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS (size) 1=10-0-11, 3=10-0-11, 4=10-0-11
Max Horiz 1=-107 (LC 8)
Max Uplift 1=-25 (LC 24), 3=-28 (LC 8), 4=-214 (LC 12)
Max Grav 1=75 (LC 23), 3=75 (LC 24), 4=737 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-133/337, 2-3=-132/337
BOT CHORD 1-4=-323/187, 3-4=-323/187
WEBS 2-4=-612/286

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 5-1-2, Exterior (2) 5-1-2 to 8-1-2, Interior (1) 8-1-2 to 10-1-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1, 28 lb uplift at joint 3 and 214 lb uplift at joint 4.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	VA5	Valley	1	1	Job Reference (optional)	I73111771

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 13:23:10
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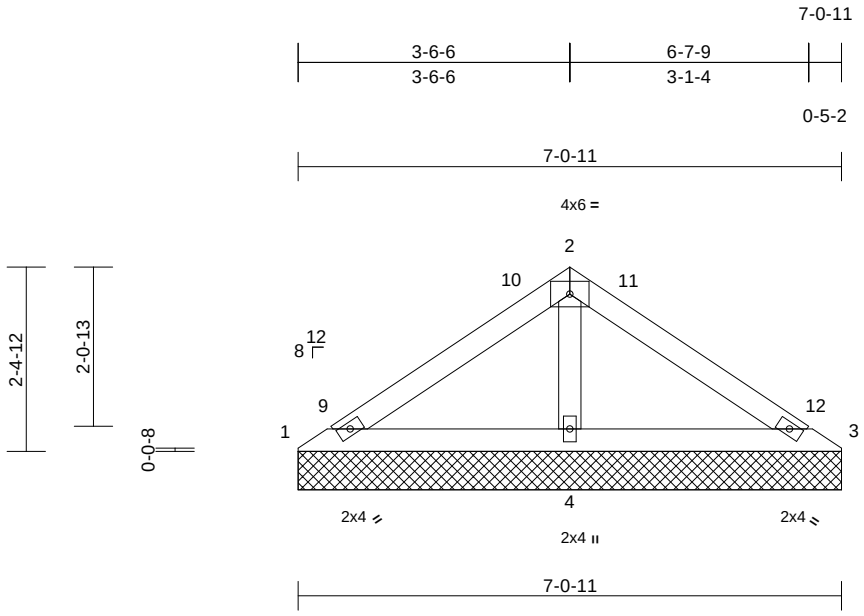

Scale = 1:29.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	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	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 24 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 7-0-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=7-0-11, 3=7-0-11, 4=7-0-11
Max Horiz 1=-74 (LC 8)
Max Uplift 1=-12 (LC 12), 3=-24 (LC 13), 4=-120 (LC 12)
Max Grav 1=77 (LC 23), 3=77 (LC 24), 4=452 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-76/178, 2-3=-76/174
BOT CHORD 1-4=-166/111, 3-4=-166/111
WEBS 2-4=-341/172

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 3-7-2, Exterior (2) 3-7-2 to 6-7-2, Interior (1) 6-7-2 to 7-1-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1, 24 lb uplift at joint 3 and 120 lb uplift at joint 4.

LOAD CASE(S) Standard

April 30,2025

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

Job	Truss	Truss Type	Qty	Ply	JSJ Builders	
4619364	VA6	Valley	1	1	Job Reference (optional)	I73111772

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

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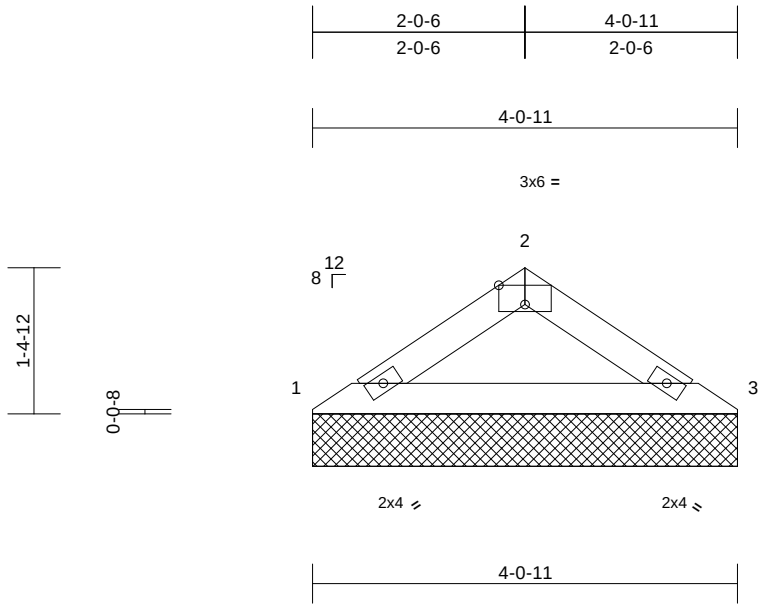


Scale = 1:22

Plate Offsets (X, Y): [2:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%

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

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

REACTIONS (size) 1=4-0-11, 3=4-0-11
Max Horiz 1=-41 (LC 10)
Max Uplift 1=-42 (LC 12), 3=-42 (LC 13)
Max Grav 1=162 (LC 1), 3=162 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-246/97, 2-3=-246/97
BOT CHORD 1-3=-67/202

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 1 and 42 lb uplift at joint 3.

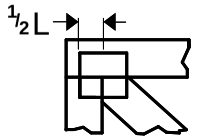
LOAD CASE(S) Standard

April 30,2025

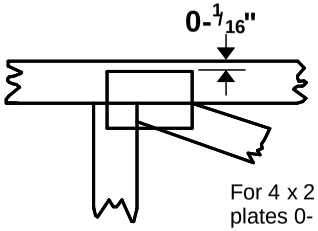
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

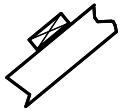
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

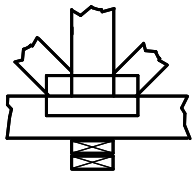
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

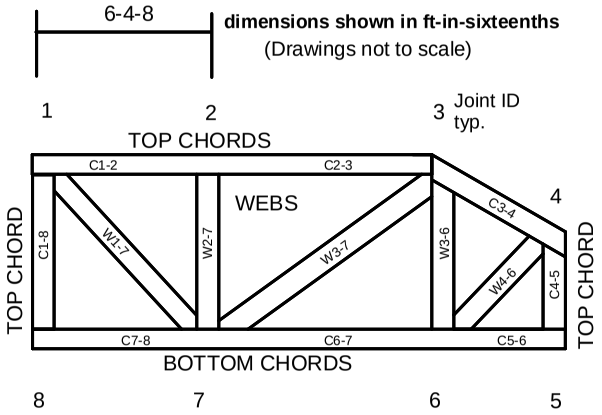


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

MiTek®

ENGINEERING BY TRENCO
A MiTek Affiliate

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

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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.