ENGINEERING BY TRENCO
A MiTek Affiliate

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

RE: 4513014 - Bridgeport, Palmetto, 2 Cameron Hill

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Project Customer: Bridgeport Development Project Name:
Lot/Block: 2 Subdivision: CAMERON HILL RD
Address: 3222 CAMERON HILL RD
City: CAMERON State: NC

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:
Address:
City, County: State:

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 Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-10
Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 21 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Job ID#	Truss Name	Date
1	I72039799	4513014	F01	3/14/25
2		4513014	F02	3/14/25
3	I72039801	4513014	F03	3/14/25
4	I72039802	4513014	F04	3/14/25
5	I72039803	4513014	F05	3/14/25
6	I72039804	4513014	F06	3/14/25
7	I72039805	4513014	F07	3/14/25
8	I72039806	4513014	F08	3/14/25
9	I72039807	4513014	F09	3/14/25
10	I72039808	4513014	F10	3/14/25
11	I72039809	4513014	F11	3/14/25
12	I72039810	4513014	F12	3/14/25
13	I72039811	4513014	F13	3/14/25
14	I72039812	4513014	F14	3/14/25
	I72039813	4513014	F15	3/14/25
16	I72039814	4513014	F16	3/14/25
17	I72039815	4513014	F17	3/14/25
18	I72039816	4513014	F18	3/14/25
19	I72039817	4513014	F19	3/14/25
20	I72039818	4513014	F20	3/14/25
21	I72039819	4513014	F21	3/14/25

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.

March 14,2025
Galinski, John

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

ENGINEERING BY TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

RE: $JOBNAME - $JOBDESC

Site Information:

Project Customer: $SI_CUSTOMER Project Name: $SI_JOBNAME
Lot/Block: $SI_LOTNUM Subdivision: $SI_SUBDIV
Address: $SI_SITEADDR
City, County: $SI_SITECITY State: $SI_SITESTATE

ENGINEERING BY TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

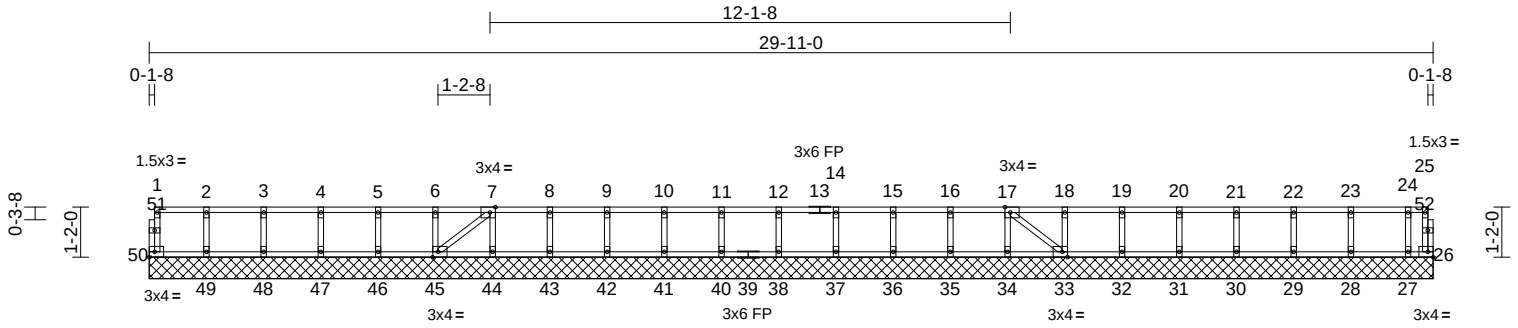
RE: $JOBNAME - $JOBDESC

Site Information:

Project Customer: $SI_CUSTOMER Project Name: $SI_JOBNAME
Lot/Block: $SI_LOTNUM Subdivision: $SI_SUBDIV
Address: $SI_SITEADDR
City, County: $SI_SITECITY State: $SI_SITESTATE

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F01	Floor Supported Gable	1	1	I72039799 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:17 Page: 1
ID:cYaHyOxCkLdga0o9GAajsjyvpqi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:53.7

Plate Offsets (X, Y): [7:0-1-8,Edge], [17:0-1-8,Edge], [33:0-1-8,Edge], [45:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	33	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 128 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 26=29-11-0, 27=29-11-0, 28=29-11-0, 29=29-11-0, 30=29-11-0, 31=29-11-0, 32=29-11-0, 33=29-11-0, 34=29-11-0, 35=29-11-0, 36=29-11-0, 37=29-11-0, 38=29-11-0, 40=29-11-0, 41=29-11-0, 42=29-11-0, 43=29-11-0, 44=29-11-0, 45=29-11-0, 46=29-11-0, 47=29-11-0, 48=29-11-0, 49=29-11-0, 50=29-11-0
Max Uplift 26=-8 (LC 1)
Max Grav 26=-8 (LC 1), 27=121 (LC 1), 28=152 (LC 1), 29=145 (LC 1), 30=147 (LC 1), 31=147 (LC 1), 32=147 (LC 1), 33=153 (LC 1), 34=141 (LC 1), 35=147 (LC 1), 36=147 (LC 1), 37=147 (LC 1), 38=147 (LC 1), 40=147 (LC 1), 41=147 (LC 1), 42=147 (LC 1), 43=147 (LC 1), 44=143 (LC 1), 45=150 (LC 1), 46=147 (LC 1), 47=147 (LC 1), 48=146 (LC 1), 49=152 (LC 1), 50=48 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-50=-44/0, 25-26=0/8, 1-2=-3/0, 2-3=-3/0, 3-4=-3/0, 4-5=-3/0, 5-6=-3/0, 6-7=-3/0, 7-8=-7/0, 8-9=-7/0, 9-10=-7/0, 10-11=-7/0, 11-12=-7/0, 12-14=-7/0, 14-15=-7/0, 15-16=-7/0, 16-17=-7/0, 17-18=0/0, 18-19=0/0, 19-20=0/0, 20-21=0/0, 21-22=0/0, 22-23=0/0, 23-24=0/0, 24-25=0/0
BOT CHORD 49-50=0/3, 48-49=0/3, 47-48=0/3, 46-47=0/3, 45-46=0/3, 44-45=0/7, 43-44=0/7, 42-43=0/7, 41-42=0/7, 40-41=0/7, 38-40=0/7, 37-38=0/7, 36-37=0/7, 35-36=0/7, 34-35=0/7, 33-34=0/7, 32-33=0/0, 31-32=0/0, 30-31=0/0, 29-30=0/0, 28-29=0/0, 27-28=0/0, 26-27=0/0
WEBS 2-49=-138/0, 3-48=-133/0, 4-47=-134/0, 5-46=-133/0, 6-45=-133/0, 7-44=-130/0, 8-43=-133/0, 9-42=-133/0, 10-41=-133/0, 11-40=-133/0, 12-38=-133/0, 14-37=-133/0, 15-36=-133/0, 16-35=-133/0, 17-34=-127/0, 18-33=-133/0, 19-32=-133/0, 20-31=-133/0, 21-30=-134/0, 22-29=-132/0, 23-28=-138/0, 24-27=-110/0, 7-45=-6/0, 17-33=-10/0

NOTES
1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) All bearings are assumed to be SP No.2 .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 26.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

March 14,2025

ENGINEERING BY TRENCO
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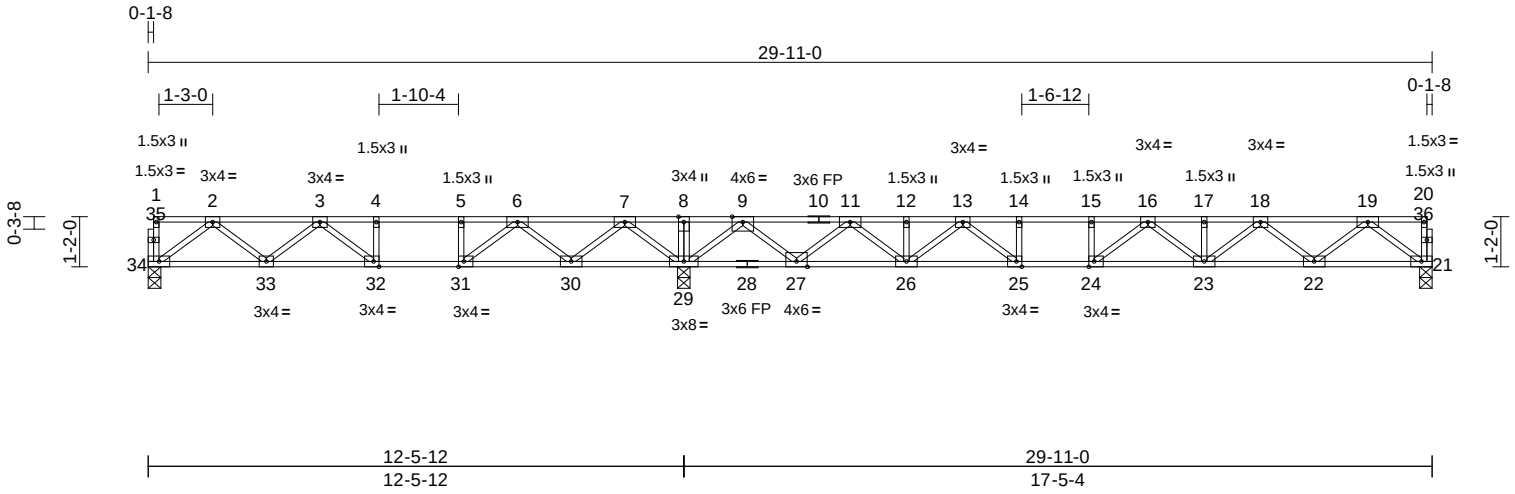
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F02	Floor	3	1	I72039800 Job Reference (optional)

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:18
ID:O_uV2B7pSVos1MBQdfHL_Ryvquu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:53.7

Plate Offsets (X, Y): [24:0-1-8,Edge], [25:0-1-8,Edge], [31:0-1-8,Edge], [32:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.24	23-24	>862	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.33	23-24	>634	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.04	21	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 151 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat) *Except* 10-20:2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 28-21:2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING

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

REACTIONS (size) 21=0-3-8, 29=0-3-8, 34=0-3-8
Max Grav 21=833 (LC 4), 29=1969 (LC 1), 34=581 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-34=-40/0, 20-21=-35/0, 1-2=-2/0, 2-3=-1094/12, 3-4=-1434/395, 4-5=-1434/395, 5-6=-1434/395, 6-7=-442/1131, 7-8=0/2334, 8-9=0/2334, 9-11=-409/373, 11-12=-1999/0, 12-13=-1999/0, 13-14=-2986/0, 14-15=-2986/0, 15-16=-2986/0, 16-17=-2761/0, 17-18=-2761/0, 18-19=-1712/0, 19-20=-2/0

BOT CHORD 33-34=0/711, 32-33=-114/1418, 31-32=-395/1434, 30-31=-806/1015, 29-30=-1441/0, 27-29=-979/0, 26-27=-96/1316, 25-26=0/2536, 24-25=0/2986, 23-24=0/3001, 22-23=0/2360, 21-22=0/1038

WEBS 8-29=-96/0, 2-34=-889/0, 2-33=-33/499, 3-33=-422/133, 3-32=-423/21, 7-29=-1335/0, 7-30=0/895, 6-30=-930/0, 6-31=0/938, 4-32=-43/156, 5-31=-421/0, 9-29=-1700/0, 9-27=0/1268, 11-27=-1224/0, 11-26=0/919, 12-26=-118/0, 13-26=-735/0, 13-25=0/829, 19-21=-1299/0, 19-22=0/878, 18-22=-844/0, 18-23=0/511, 17-23=-77/0, 16-23=-306/0, 16-24=-342/259, 14-25=-353/0, 15-24=-127/91

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 (=) MT20 unless otherwise indicated.
3) Bearings are assumed to be: Joint 34 SP No.2 , Joint 29 SP No.2 , Joint 21 SP No.1 .
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

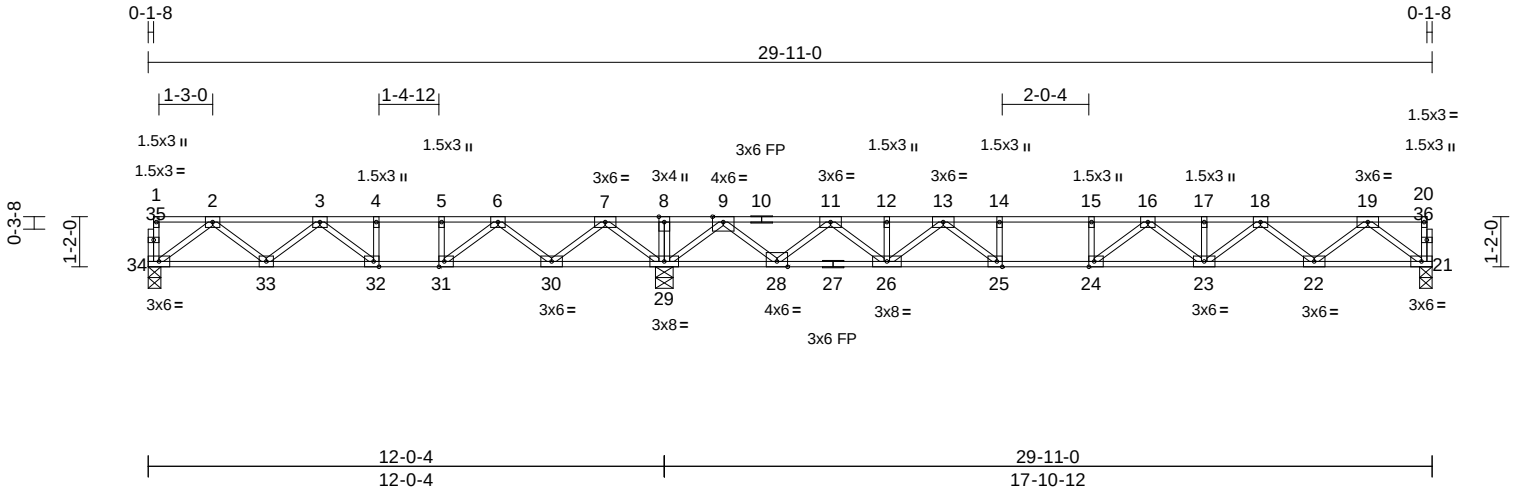
LOAD CASE(S) Standard

March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F03	Floor	1	1	I72039801 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:19 Page: 1
ID:O_uV2B7pSVos1MBQdfHL_Ryvquu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:53.7

Plate Offsets (X, Y): [24:0-1-8,Edge], [25:0-1-8,Edge], [31:0-1-8,Edge], [32:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.26	23-24	>809	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.36	23-24	>591	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.04	21	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 151 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat) *Except* 10-20:2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 27-21:2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (size) 21=0-3-8, 29=0-4-15, 34=0-3-8
Max Grav 21=857 (LC 4), 29=1980 (LC 1), 34=553 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-34=-39/0, 20-21=-35/0, 1-2=-2/0, 2-3=-1022/62, 3-4=-1303/465, 4-5=-1303/465, 5-6=-1303/465, 6-7=-397/1183, 7-8=0/2346, 8-9=0/2346, 9-11=-407/354, 11-12=-2061/0, 12-13=-2061/0, 13-14=-3151/0, 14-15=-3151/0, 15-16=-3151/0, 16-17=-2882/0, 17-18=-2882/0, 18-19=-1772/0, 19-20=-2/0
BOT CHORD 33-34=-11/673, 32-33=-185/1316, 31-32=-465/1303, 30-31=-854/943, 29-30=-1503/0, 28-29=-965/0, 26-28=-71/1345, 25-26=0/2626, 24-25=0/3151, 23-24=0/3148, 22-23=0/2450, 21-22=0/1069
WEBS 8-29=-99/0, 2-34=-842/15, 2-33=-66/454, 3-33=-382/160, 3-32=-457/0, 7-29=-1312/0, 7-30=0/882, 6-30=-907/0, 6-31=0/859, 4-32=-23/155, 5-31=-366/0, 19-21=-1338/0, 19-22=0/915, 18-22=-883/0, 18-23=0/552, 17-23=-78/0, 16-23=-339/0, 16-24=-327/299, 9-29=-1733/0, 9-28=0/1304, 11-28=-1260/0, 11-26=0/954, 12-26=-126/0, 13-26=-765/0, 13-25=0/932, 14-25=-418/0, 15-24=-155/87

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 (=) MT20 unless otherwise indicated.
3) Bearings are assumed to be: Joint 34 SP No.2 , Joint 29 SP No.2 , Joint 21 SP No.1 .
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

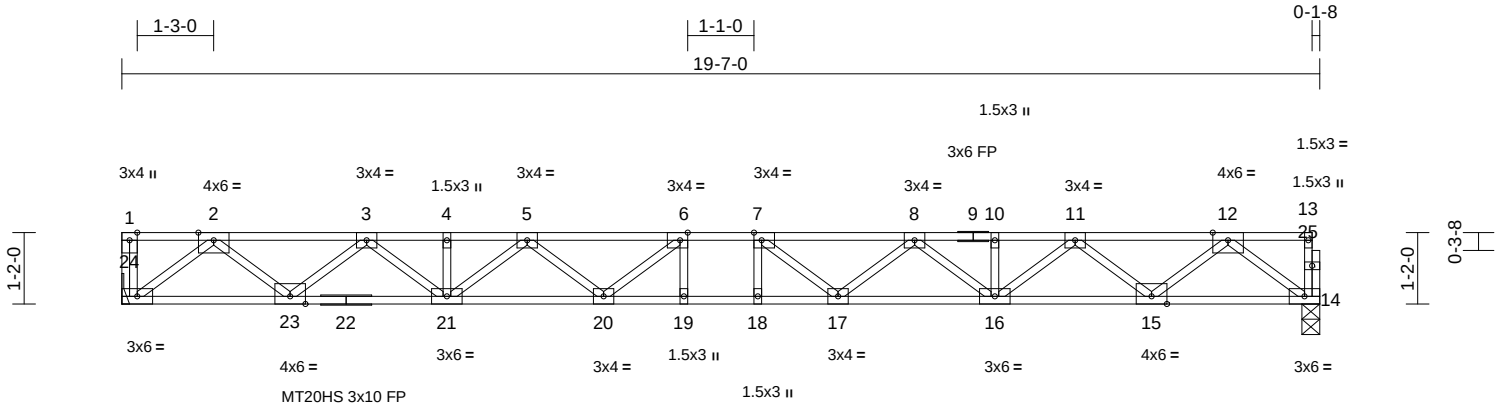
LOAD CASE(S) Standard

March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F04	Floor	3	1	I72039802 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:19 Page: 1
ID:O_uV2B7pSVos1MBQdfHL_Ryvquu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:37.7

Plate Offsets (X, Y): [6:0-1-8,Edge], [7:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.36	18-19	>639	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.50	18-19	>465	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.08	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 101 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS(flat)
BOT CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS (size) 14=0-3-8, 24= Mechanical
Max Grav 14=1057 (LC 1), 24=1063 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-24=-40/0, 13-14=-36/0, 1-2=0/0, 2-3=-2277/0, 3-4=-3858/0, 4-5=-3858/0, 5-6=-4684/0, 6-7=-4927/0, 7-8=-4684/0, 8-10=-3858/0, 10-11=-3858/0, 11-12=-2277/0, 12-13=-2/0
BOT CHORD 23-24=0/1334, 21-23=0/3187, 20-21=0/4426, 19-20=0/4927, 18-19=0/4927, 17-18=0/4927, 16-17=0/4426, 15-16=0/3187, 14-15=0/1333
WEBS 12-14=-1669/0, 12-15=0/1229, 11-15=-1185/0, 11-16=0/856, 10-16=-57/0, 8-16=-725/0, 8-17=0/474, 7-17=-567/102, 7-18=-176/194, 2-24=-1673/0, 2-23=0/1228, 3-23=-1184/0, 3-21=0/857, 4-21=-57/0, 5-21=-725/0, 5-20=0/474, 6-20=-567/102, 6-19=-176/194

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Bearings are assumed to be: , Joint 14 SP DSS or SS or 2400F 2.0E .
4) Refer to girder(s) for truss to truss connections.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

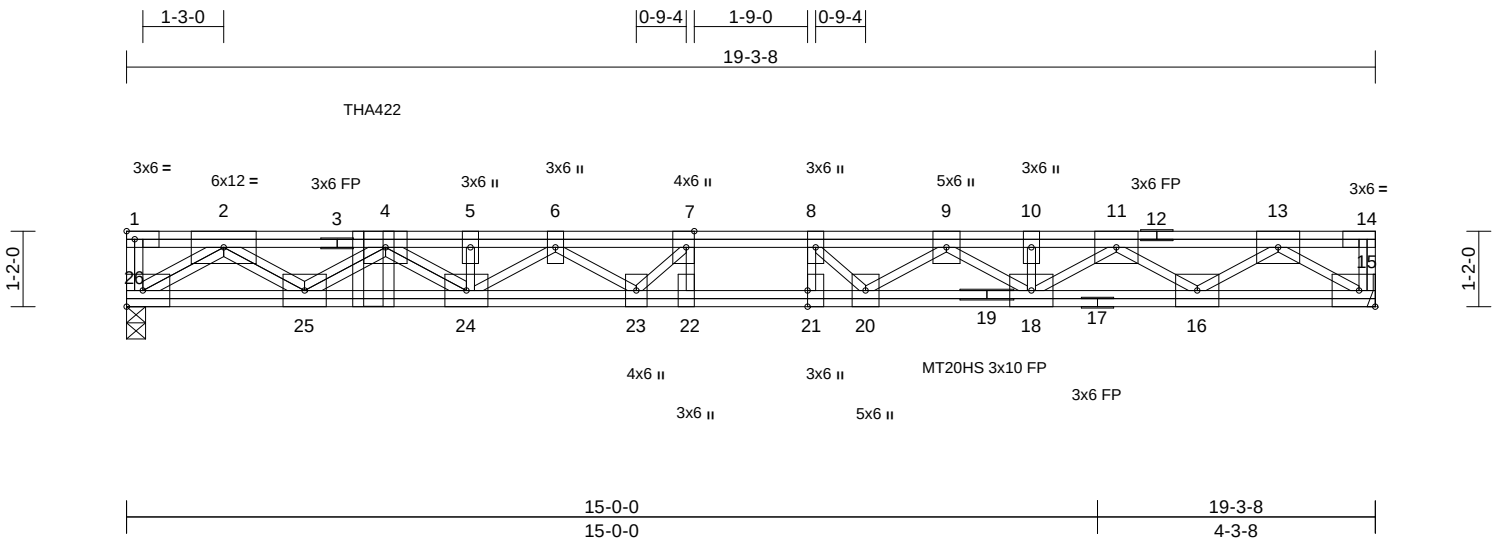
LOAD CASE(S) Standard

March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F05	Floor Girder	1	1	I72039803 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:19 Page: 1
ID:pq53F1NMlfK1RRjGose1ofyvqua-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:35.6

Plate Offsets (X, Y): [7:0-3-0,Edge], [21:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.34	22	>668	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.47	22	>482	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.07	15	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 159 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS(flat)
BOT CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS (size) 15= Mechanical, 26=0-3-8
Max Grav 15=1283 (LC 1), 26=1971 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-26=-50/0, 14-15=-51/0, 1-2=0/0, 2-4=-5105/0, 4-5=-7743/0, 5-6=-7749/0, 6-7=-7981/0, 7-8=-7753/0, 8-9=-7149/0, 9-10=-5574/0, 10-11=-5574/0, 11-13=-3173/0, 13-14=0/0
BOT CHORD 25-26=0/2840, 24-25=0/7343, 23-24=0/8051, 22-23=0/7753, 21-22=0/7753, 20-21=0/7753, 18-20=0/6457, 16-18=0/4497, 15-16=0/1817
WEBS 2-26=-3413/0, 2-25=0/2809, 4-25=-2775/0, 4-24=0/541, 5-24=-82/0, 6-23=-431/431, 7-23=-415/796, 7-22=-537/136, 10-18=-105/0, 9-20=0/1075, 8-20=-1251/0, 8-21=-118/552, 6-24=-439/0, 9-18=-1076/0, 11-18=0/1314, 11-16=-1643/0, 13-16=0/1682, 13-15=-2183/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 6x8 (=) MT20 unless otherwise indicated.
4) Bearings are assumed to be: Joint 26 SP DSS or SS or 2400F 2.0E .
5) Refer to girder(s) for truss to truss connections.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 3-9-12 from the left end to connect truss(es) to back face of top chord.
8) Fill all nail holes where hanger is in contact with lumber.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 15-26=-10, 1-14=-100
Concentrated Loads (lb)
Vert: 4=-1160 (B)

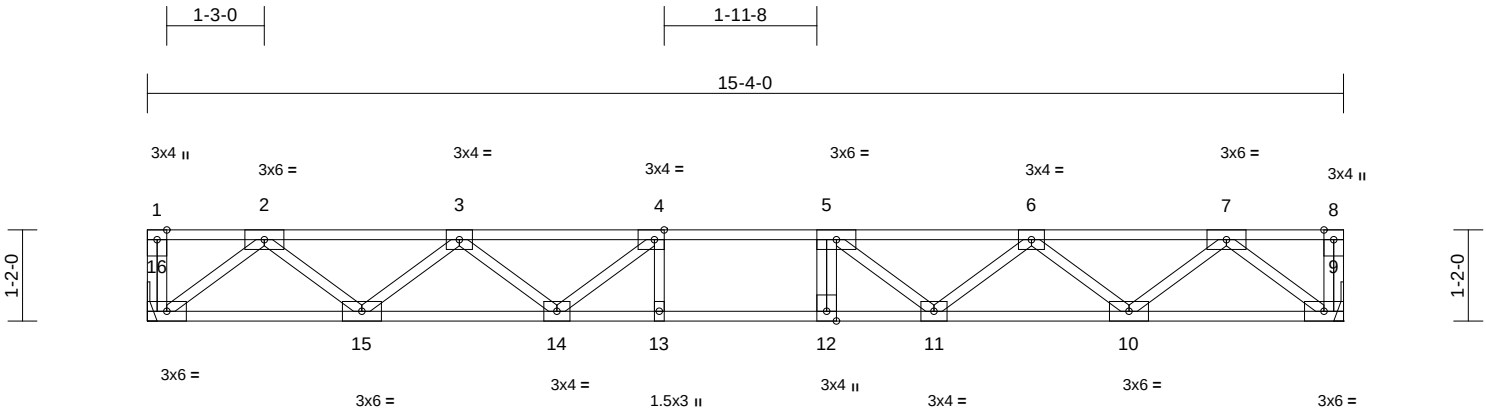
March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F06	Floor	5	1	I72039804 Job Reference (optional)

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:20 Page: 1
ID:pq53F1NMlfK1RRjGose1ofyvqua-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:29.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.17	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.23	11-12	>778	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 78 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 9= Mechanical, 16= Mechanical
Max Grav 9=830 (LC 1), 16=830 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-45/0, 8-9=-45/0, 1-2=0/0, 2-3=-1696/0, 3-4=-2655/0, 4-5=-2973/0, 5-6=-2653/0, 6-7=-1697/0, 7-8=0/0
BOT CHORD 15-16=0/1023, 14-15=0/2335, 13-14=0/2973, 12-13=0/2973, 11-12=0/2973, 10-11=0/2338, 9-10=0/1022
WEBS 7-9=-1282/0, 7-10=0/879, 6-10=-834/0, 6-11=0/464, 5-11=-590/0, 2-16=-1283/0, 2-15=0/877, 3-15=-831/0, 3-14=0/472, 4-14=-594/0, 4-13=-132/172, 5-12=-135/162

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F07	Floor	2	1	I72039805 Job Reference (optional)

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:20
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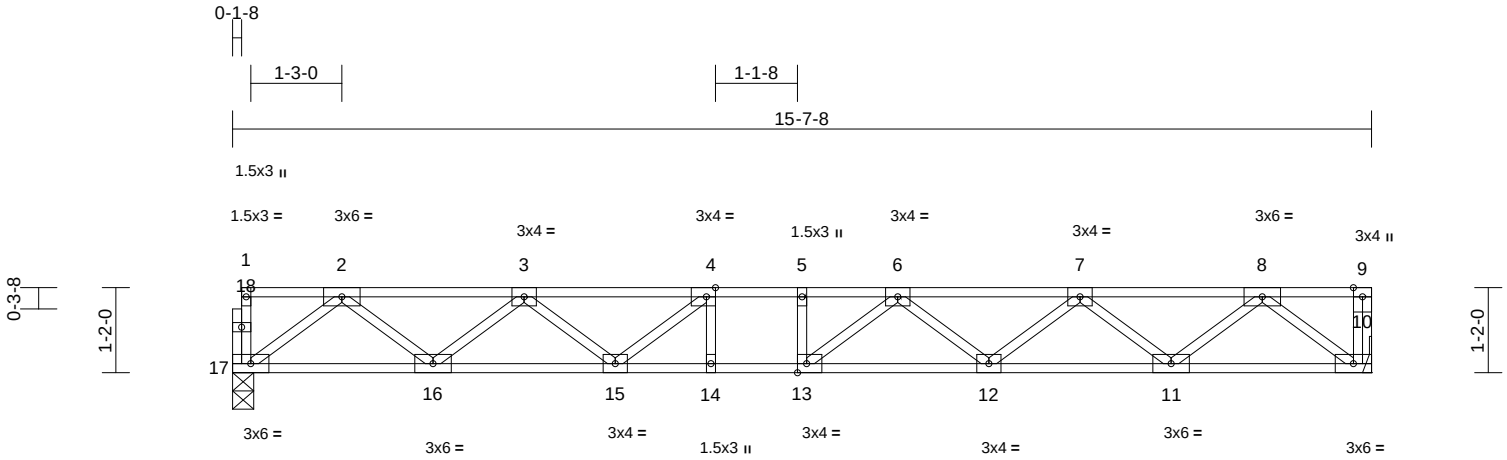

Scale = 1:31.6

Plate Offsets (X, Y): [4:0-1-8,Edge], [13:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.20	12-13	>945	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.27	12-13	>681	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.05	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 80 lb	FT = 20%F, 11%E

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 14-15,12-13.

REACTIONS (size) 10= Mechanical, 17=0-3-8
Max Grav 10=846 (LC 1), 17=839 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-41/0, 9-10=-42/0, 1-2=-2/0, 2-3=-1736/0, 3-4=-2734/0, 4-5=-3085/0, 5-6=-3085/0, 6-7=-2740/0, 7-8=-1735/0, 8-9=0/0
BOT CHORD 16-17=0/1044, 15-16=0/2392, 14-15=0/3085, 13-14=0/3085, 12-13=0/3047, 11-12=0/2395, 10-11=0/1044
WEBS 8-10=-1309/0, 8-11=0/900, 7-11=-859/0, 7-12=0/449, 6-12=-400/0, 6-13=-213/359, 5-13=-129/43, 2-17=-1307/0, 2-16=0/901, 3-16=-854/0, 3-15=0/487, 4-15=-568/0, 4-14=-88/150

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: Joint 17 SP No.2 .
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F08	Floor	1	1	I72039806 Job Reference (optional)

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:20
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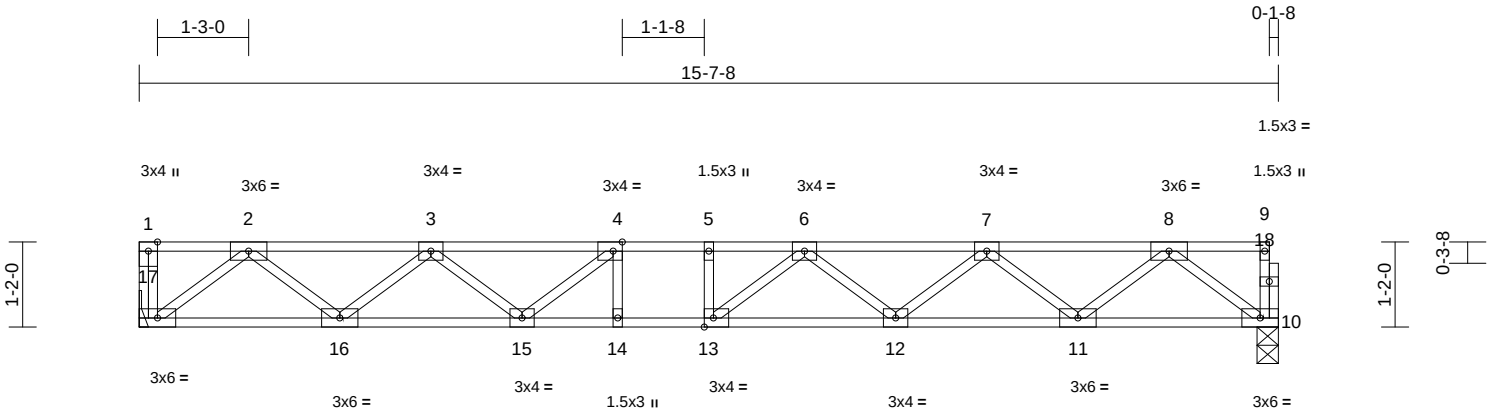


Scale = 1:31.6

Plate Offsets (X, Y): [4:0-1-8,Edge], [13:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.20	12-13	>945	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.27	12-13	>681	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.05	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 80 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 12-13.

REACTIONS (size) 10=0-3-8, 17= Mechanical
Max Grav 10=839 (LC 1), 17=846 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-17=-44/0, 9-10=-38/0, 1-2=0/0, 2-3=-1736/0, 3-4=-2734/0, 4-5=-3085/0, 5-6=-3085/0, 6-7=-2740/0, 7-8=-1735/0, 8-9=-2/0

BOT CHORD 16-17=0/1045, 15-16=0/2392, 14-15=0/3085, 13-14=0/3085, 12-13=0/3047, 11-12=0/2395, 10-11=0/1043

WEBS 8-10=-1305/0, 8-11=0/901, 7-11=-860/0, 7-12=0/449, 6-12=-400/0, 6-13=-213/359, 5-13=-129/43, 2-17=-1311/0, 2-16=0/900, 3-16=-854/0, 3-15=0/487, 4-15=-568/0, 4-14=-88/150

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: , Joint 10 SP No.2 .
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

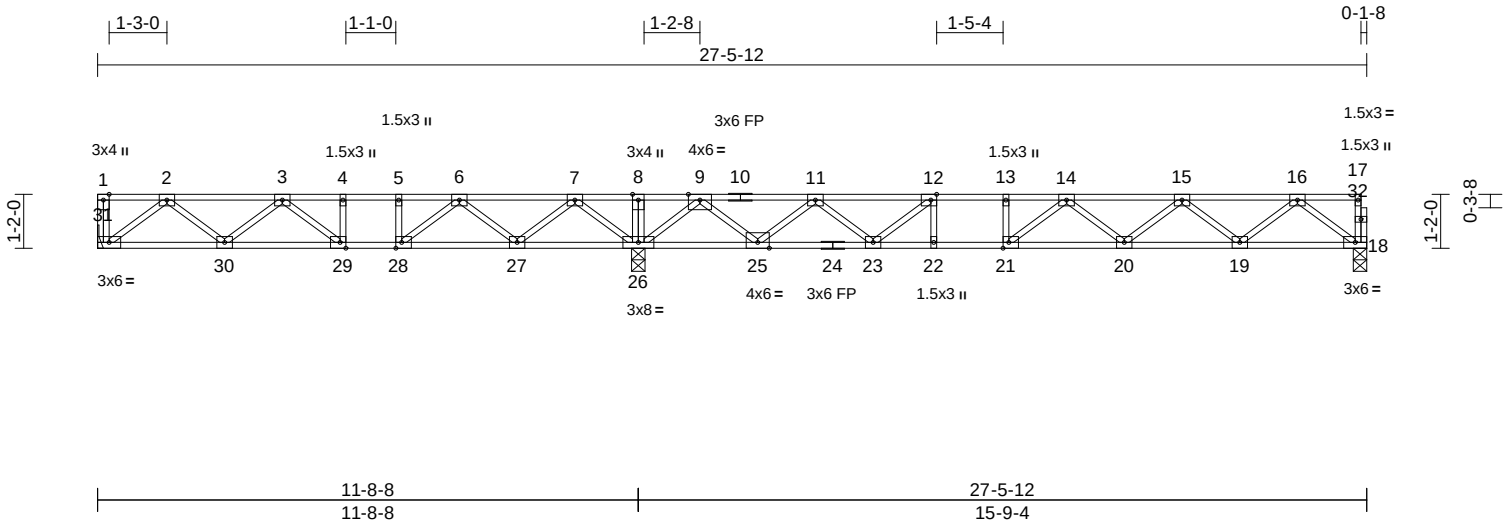
March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F09	Floor	2	1	I72039807 Job Reference (optional)

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:20 Page: 1
ID:Mol6aB?2y7Kt7BXDCiZhn7yvqsT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:49.9

Plate Offsets (X, Y): [12:0-1-8,Edge], [21:0-1-8,Edge], [28:0-1-8,Edge], [29:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.18	20-21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.25	20-21	>744	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.03	18	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 139 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 24-18:2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS (size) 18=0-3-8, 26=0-3-8, 31= Mechanical
Max Grav 18=749 (LC 4), 26=1817 (LC 1), 31=546 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-31=-41/0, 17-18=-37/0, 1-2=0/0, 2-3=-988/10, 3-4=-1251/310, 4-5=-1251/310, 5-6=-1251/310, 6-7=-423/899, 7-8=0/2008, 8-9=0/2008, 9-11=-428/356, 11-12=-1734/0, 12-13=-2332/0, 13-14=-2332/0, 14-15=-2310/0, 15-16=-1504/0, 16-17=-2/0
BOT CHORD 30-31=0/657, 29-30=-98/1270, 28-29=-310/1251, 27-28=-616/940, 26-27=-1187/0, 25-26=-814/0, 23-25=-109/1223, 22-23=0/2332, 21-22=0/2332, 20-21=0/2487, 19-20=0/2061, 18-19=0/923
WEBS 7-26=-1246/0, 2-31=-824/0, 7-27=0/826, 2-30=-37/432, 6-27=-831/0, 3-30=-366/115, 6-28=0/723, 3-29=-392/0, 4-29=-14/134, 5-28=-305/0, 9-26=-1515/0, 9-25=0/1124, 11-25=-1079/0, 11-23=0/718, 12-23=-874/0, 12-22=0/266, 16-18=-1155/0, 16-19=0/756, 15-19=-726/0, 15-20=0/324, 14-20=-231/20, 14-21=-442/102, 13-21=-52/104, 8-26=-95/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 (=) MT20 unless otherwise indicated.
3) Bearings are assumed to be: , Joint 26 SP No.2 , Joint 18 SP No.1 .
4) Refer to girder(s) for truss to truss connections.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F10	Floor	1	1	I72039808 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:21 Page: 1
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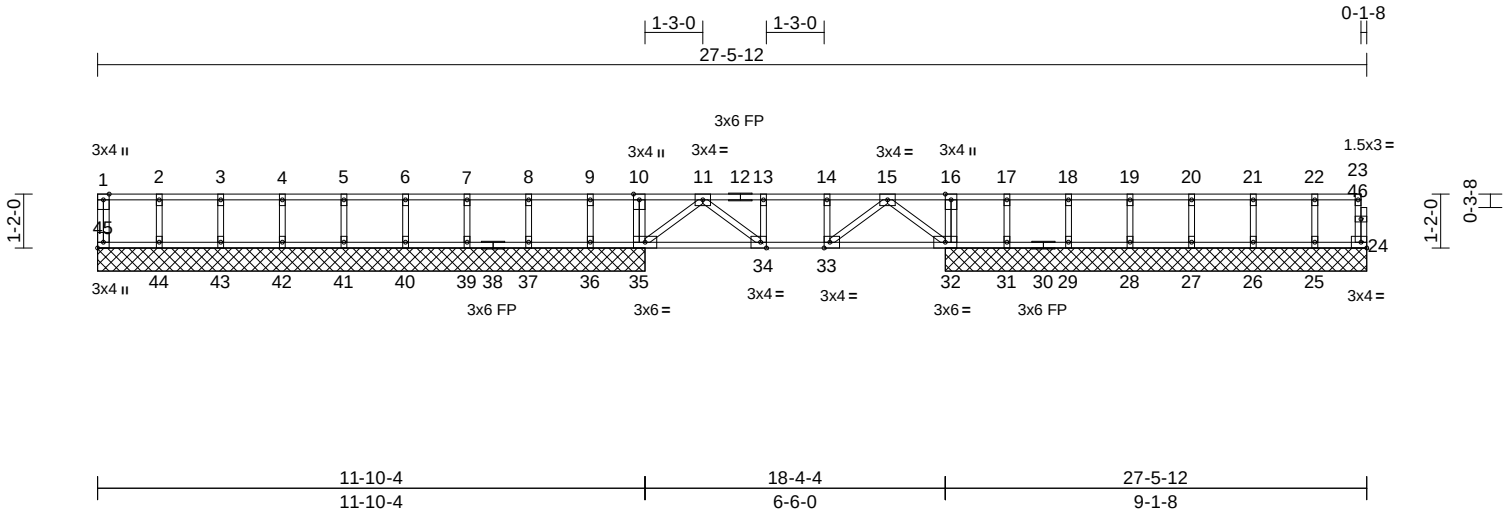

Scale = 1:49.9

Plate Offsets (X, Y): [33:0-1-8,Edge], [34:0-1-8,Edge], [45:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.01	33-34	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.04	33-34	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 123 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 24=9-1-8, 25=9-1-8, 26=9-1-8, 27=9-1-8, 28=9-1-8, 29=9-1-8, 31=9-1-8, 32=9-1-8, 35=11-10-4, 36=11-10-4, 37=11-10-4, 39=11-10-4, 40=11-10-4, 41=11-10-4, 42=11-10-4, 43=11-10-4, 44=11-10-4, 45=11-10-4
Max Uplift 31=-41 (LC 3), 36=-67 (LC 10)
Max Grav 24=36 (LC 6), 25=141 (LC 1), 26=147 (LC 6), 27=148 (LC 1), 28=141 (LC 6), 29=168 (LC 1), 31=58 (LC 6), 32=1409 (LC 10), 35=1415 (LC 4), 36=59 (LC 5), 37=169 (LC 1), 39=142 (LC 5), 40=148 (LC 1), 41=146 (LC 5), 42=147 (LC 1), 43=145 (LC 5), 44=156 (LC 1), 45=52 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-45=-47/0, 23-24=-32/0, 1-2=0/0, 2-3=0/0, 3-4=0/0, 4-5=0/0, 5-6=0/0, 6-7=0/0, 7-8=0/0, 8-9=0/0, 9-10=0/0, 10-11=0/0, 11-13=-1962/0, 13-14=-1962/0, 14-15=-1962/0, 15-16=-2/0, 16-17=-2/0, 17-18=-2/0, 18-19=-2/0, 19-20=-2/0, 20-21=-2/0, 21-22=-2/0, 22-23=-2/0
BOT CHORD 44-45=0/0, 43-44=0/0, 42-43=0/0, 41-42=0/0, 40-41=0/0, 39-40=0/0, 37-39=0/0, 36-37=0/0, 35-36=0/0, 34-35=0/1322, 33-34=0/1962, 32-33=0/1323, 31-32=0/2, 29-31=0/2, 28-29=0/2, 27-28=0/2, 26-27=0/2, 25-26=0/2, 24-25=0/2
WEBS 16-32=-362/0, 15-32=-1658/0, 11-35=-1659/0, 15-33=0/816, 11-34=0/818, 13-34=-498/0, 14-33=-497/0, 10-35=-364/0, 17-31=-69/32, 18-29=-148/0, 19-28=-130/0, 20-27=-134/0, 21-26=-134/0, 22-25=-128/0, 2-44=-142/0, 3-43=-131/0, 4-42=-134/0, 5-41=-133/0, 6-40=-134/0, 7-39=-130/0, 8-37=-150/0, 9-36=-68/53

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) All bearings are assumed to be SP No.2 .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 31 and 67 lb uplift at joint 36.
7) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 24-45=-10, 1-10=-100, 10-16=-361, 16-23=-100
3) Dead + Roof Live (balanced): Lumber Increase=0.90, Plate Increase=0.90
Uniform Loads (lb/ft)
Vert: 24-45=-10, 1-10=-20, 10-16=-321, 16-23=-20

March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F11	Floor	1	1	I72039809 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:21 Page: 1
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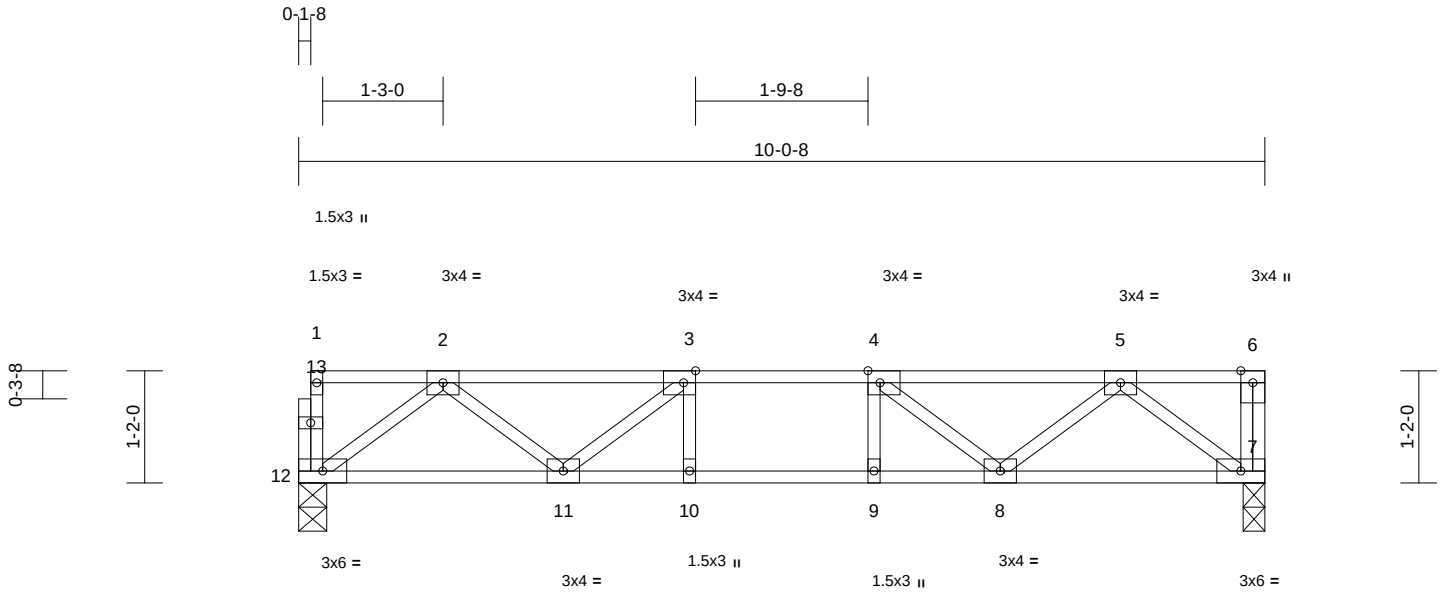


Scale = 1:23.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.06	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.07	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 51 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 7=0-2-11, 12=0-3-8
Max Grav 7=539 (LC 1), 12=532 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-32/0, 6-7=-36/0, 1-2=-2/0, 2-3=-958/0, 3-4=-1253/0, 4-5=-958/0, 5-6=0/0
BOT CHORD 11-12=0/647, 10-11=0/1253, 9-10=0/1253, 8-9=0/1253, 7-8=0/647
WEBS 2-12=-809/0, 2-11=0/405, 3-11=-412/0, 3-10=-75/100, 5-7=-812/0, 5-8=0/405, 4-8=-412/0, 4-9=-75/100

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All bearings are assumed to be SP No.2 .
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

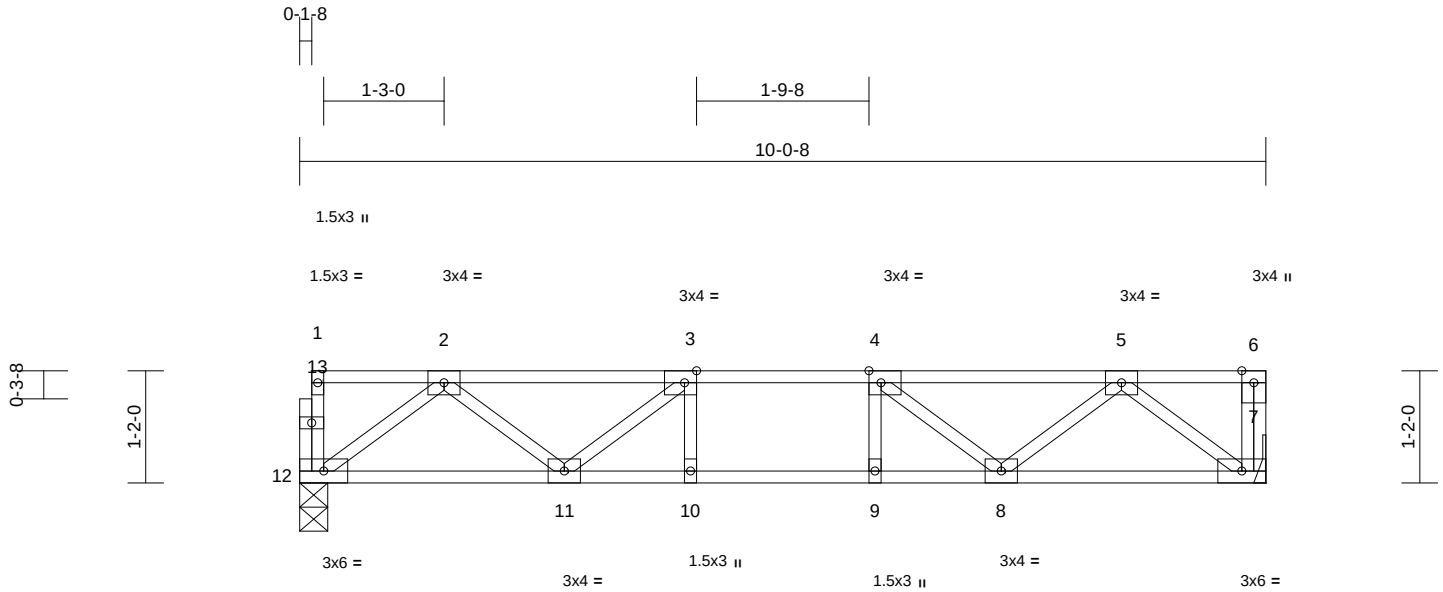
March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F12	Floor	2	1	I72039810 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:21 Page: 1

ID:qGlZwKfXmUkhJ1i4JVthDgyvq4Z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:23.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.06	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.07	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 51 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 7= Mechanical, 12=0-3-8
Max Grav 7=539 (LC 1), 12=532 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-32/0, 6-7=-36/0, 1-2=-2/0, 2-3=-958/0, 3-4=-1253/0, 4-5=-958/0, 5-6=0/0
BOT CHORD 11-12=0/647, 10-11=0/1253, 9-10=0/1253, 8-9=0/1253, 7-8=0/647
WEBS 2-12=-809/0, 2-11=0/405, 3-11=-412/0, 3-10=-75/100, 5-7=-812/0, 5-8=0/405, 4-8=-412/0, 4-9=-75/100

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: Joint 12 SP No.2 .
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

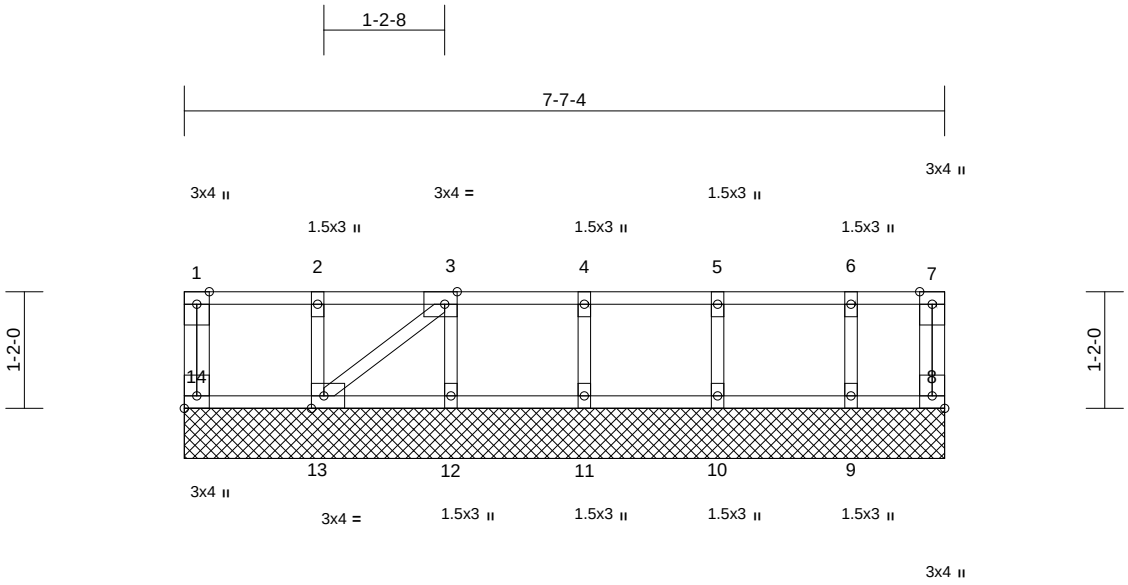
LOAD CASE(S) Standard

March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill	I72039811
4513014	F13	Floor Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:22 Page: 1
ID:ZCDSxuA7FB0zMxlougQA7jyvpqP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:23

Plate Offsets (X, Y): [3:0-1-8,Edge], [8:Edge,0-1-8], [13:0-1-8,Edge], [14:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 37 lb	FT = 20%F, 11%E

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 7-7-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 8=7-7-4, 9=7-7-4, 10=7-7-4, 11=7-7-4, 12=7-7-4, 13=7-7-4, 14=7-7-4
Max Grav 8=29 (LC 1), 9=131 (LC 1), 10=150 (LC 1), 11=146 (LC 1), 12=145 (LC 1), 13=156 (LC 1), 14=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-47/0, 7-8=-26/0, 1-2=0/0, 2-3=0/0, 3-4=0/0, 4-5=0/0, 5-6=0/0, 6-7=0/0
BOT CHORD 13-14=0/0, 12-13=0/0, 11-12=0/0, 10-11=0/0, 9-10=0/0, 8-9=0/0
WEBS 2-13=-142/0, 3-12=-132/0, 4-11=-133/0, 5-10=-137/0, 6-9=-119/0, 3-13=0/0

NOTES
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) All bearings are assumed to be SP No.2 .
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F14	Floor	2	1	I72039812 Job Reference (optional)

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:22 Page: 1
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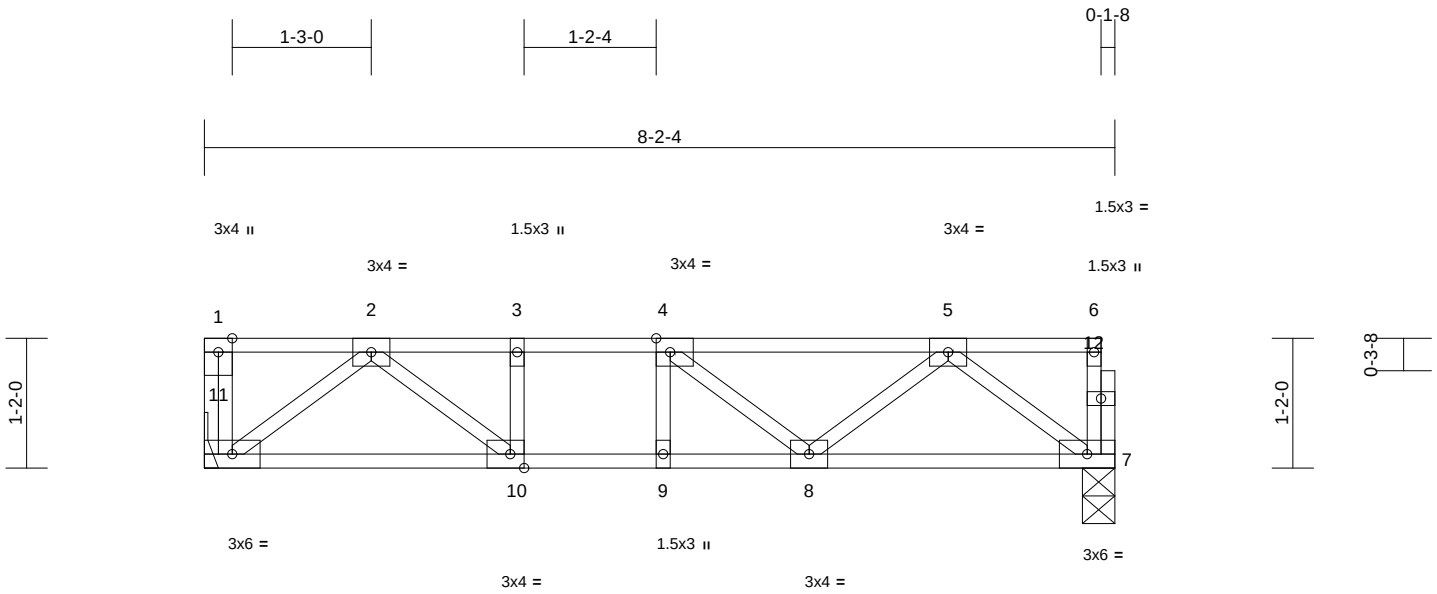

Scale = 1:20.7

Plate Offsets (X, Y): [4:0-1-8,Edge], [10:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.04	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.05	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 44 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 7=0-3-8, 11= Mechanical
Max Grav 7=430 (LC 1), 11=437 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-11=-61/0, 6-7=-25/0, 1-2=0/0, 2-3=-809/0, 3-4=-809/0, 4-5=-700/0, 5-6=-2/0
BOT CHORD 10-11=0/492, 9-10=0/809, 8-9=0/809, 7-8=0/524
WEBS 2-11=-617/0, 2-10=0/423, 3-10=-170/0, 5-7=-656/0, 5-8=0/229, 4-8=-187/0, 4-9=-107/13

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: , Joint 7 SP No.2 .
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill	I72039813
4513014	F15	Floor	4	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:22 Page: 1
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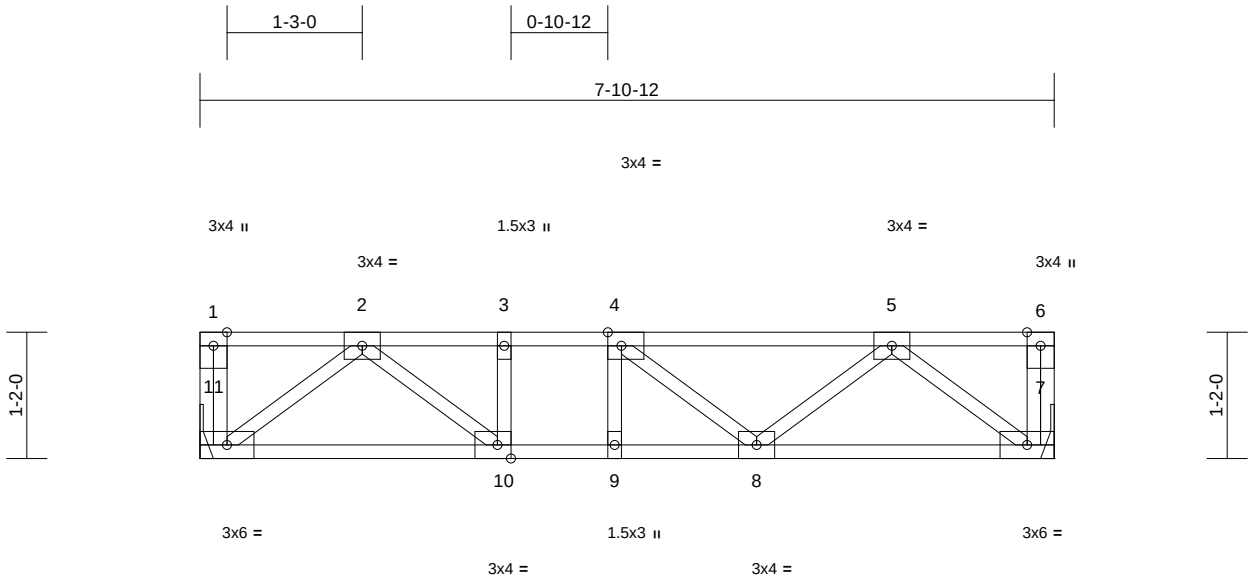

Scale = 1:21.3

Plate Offsets (X, Y): [4:0-1-8,Edge], [10:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.03	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.04	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 43 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 7= Mechanical, 11= Mechanical
Max Grav 7=421 (LC 1), 11=421 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-11=-59/0, 6-7=-31/0, 1-2=0/0, 2-3=-756/0, 3-4=-756/0, 4-5=-661/0, 5-6=0/0
BOT CHORD 10-11=0/471, 9-10=0/756, 8-9=0/756, 7-8=0/502
WEBS 2-11=-591/0, 2-10=0/380, 3-10=-141/0, 5-7=-629/0, 5-8=0/207, 4-8=-163/0, 4-9=-112/10

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F16	Floor	2	1	I72039814 Job Reference (optional)

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:22
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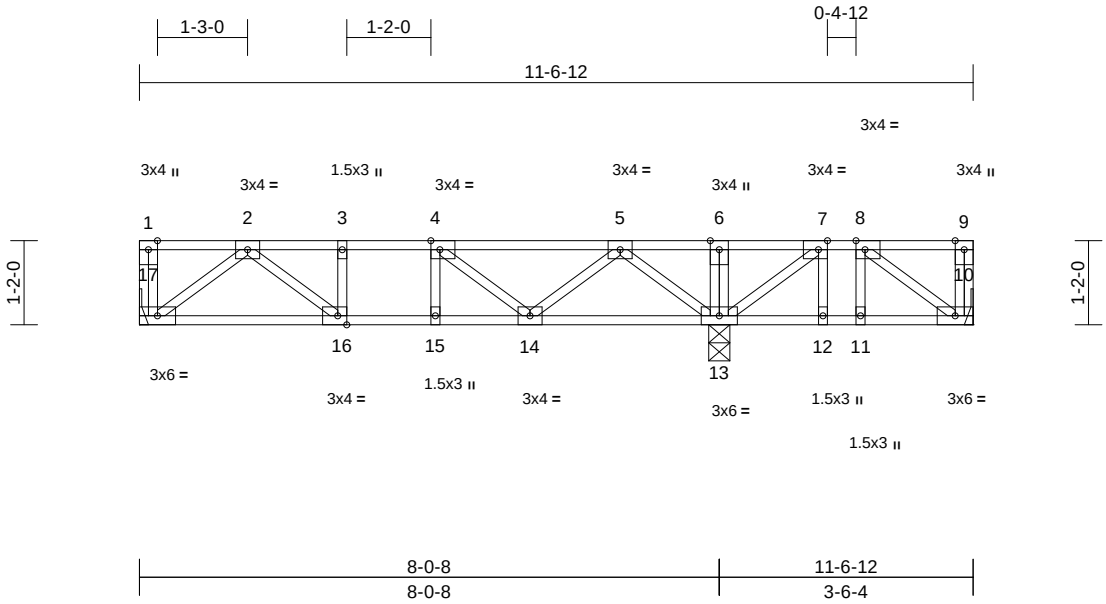

Scale = 1:32

Plate Offsets (X, Y): [4:0-1-8,Edge], [7:0-1-8,Edge], [8:0-1-8,Edge], [16:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.02	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(CT)	-0.03	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 64 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 10= Mechanical, 13=0-3-8, 17= Mechanical
Max Uplift 10=-86 (LC 3)
Max Grav 10=149 (LC 4), 13=824 (LC 1), 17=380 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-57/0, 9-10=-76/0, 1-2=0/0, 2-3=-628/0, 3-4=-628/0, 4-5=-417/0, 5-6=0/487, 6-7=0/487, 7-8=-100/178, 8-9=0/0
BOT CHORD 16-17=0/415, 15-16=0/628, 14-15=0/628, 13-14=0/169, 12-13=-178/100, 11-12=-178/100, 10-11=-178/100
WEBS 6-13=-102/0, 2-17=-521/0, 2-16=0/272, 3-16=-119/0, 5-13=-741/0, 5-14=0/337, 4-14=-291/0, 4-15=-55/29, 7-13=-496/0, 8-10=-124/220, 7-12=0/115, 8-11=-96/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: , Joint 13 SP No.2 .
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 10.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F17	Floor Girder	1	1	I72039815 Job Reference (optional)

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

Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:22 Page: 1
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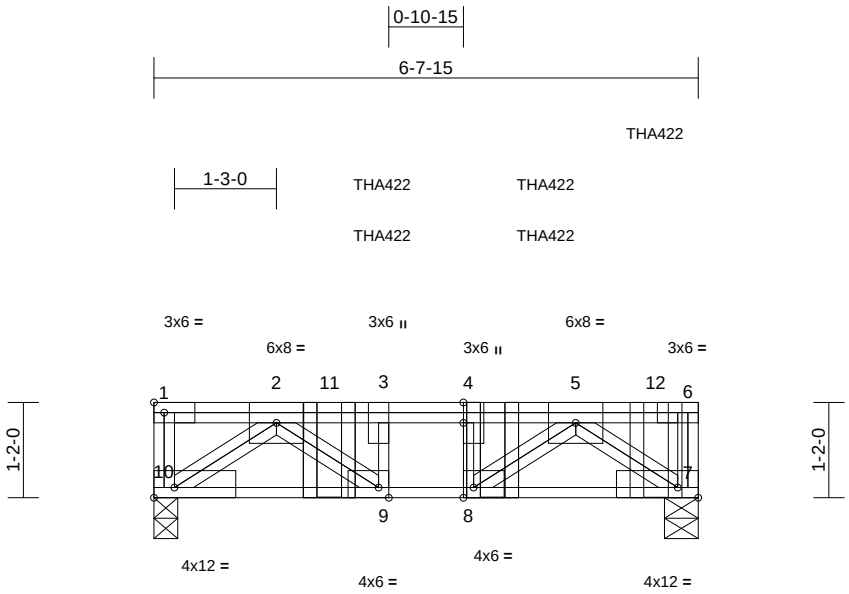

Scale = 1:28.2

Plate Offsets (X, Y): [4:0-3-0,Edge], [7:Edge,0-1-8], [8:0-1-8,Edge], [9:0-1-8,Edge], [10:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.05	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.06	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.03	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 54 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 7=0-4-15, 10=0-3-8
Max Grav 7=2542 (LC 1), 10=1961 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-41/60, 6-7=-715/0, 1-2=0/0, 2-3=-4135/0, 3-4=-4135/0, 4-5=-4135/0, 5-6=0/0
BOT CHORD 9-10=0/2738, 8-9=0/4135, 7-8=0/2544
WEBS 2-10=-3362/0, 2-9=0/1947, 3-9=-1077/0, 5-7=-3124/0, 5-8=0/1984, 4-8=-1166/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All bearings are assumed to be SP No.1 .
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-1-12 from the left end to 4-1-12 to connect truss(es) to front face of top chord.
5) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-1-12 from the left end to 6-1-12 to connect truss(es) to back face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 7-10=-10, 1-6=-100
Concentrated Loads (lb)
Vert: 4=-1402 (F=-439, B=-963), 11=-1402 (F=-439, B=-963), 12=-994 (B)

March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F18	Floor Girder	1	1	I72039816 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:23 Page: 1
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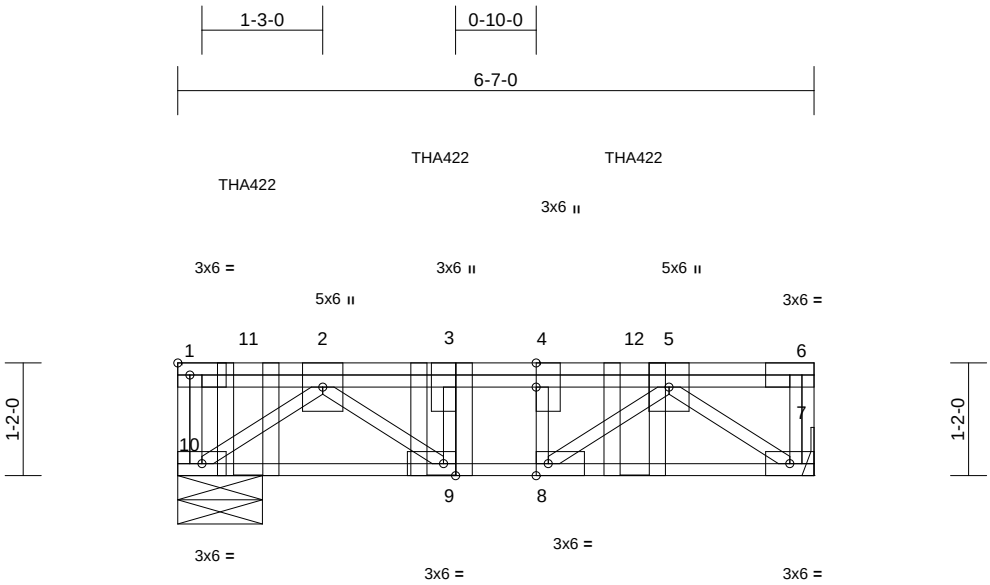


Scale = 1:23.8

Plate Offsets (X, Y): [4:0-3-0,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.05	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 45 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 7= Mechanical, 10=0-10-8
Max Grav 7=1260 (LC 1), 10=1645 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-435/0, 6-7=-42/0, 1-2=0/0, 2-3=-2412/0, 3-4=-2412/0, 4-5=-2412/0, 5-6=0/0
BOT CHORD 9-10=0/1696, 8-9=0/2412, 7-8=0/1691
WEBS 2-10=-2082/0, 2-9=0/893, 3-9=-525/0, 5-7=-2077/0, 5-8=0/1150, 4-8=-623/0

Uniform Loads (lb/ft)
Vert: 7-10=-10, 1-6=-100
Concentrated Loads (lb)
Vert: 3=-730 (B), 11=-749 (B), 12=-730 (B)

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: Joint 10 SP No.2 .
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-8-12 from the left end to 4-8-12 to connect truss(es) to back face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

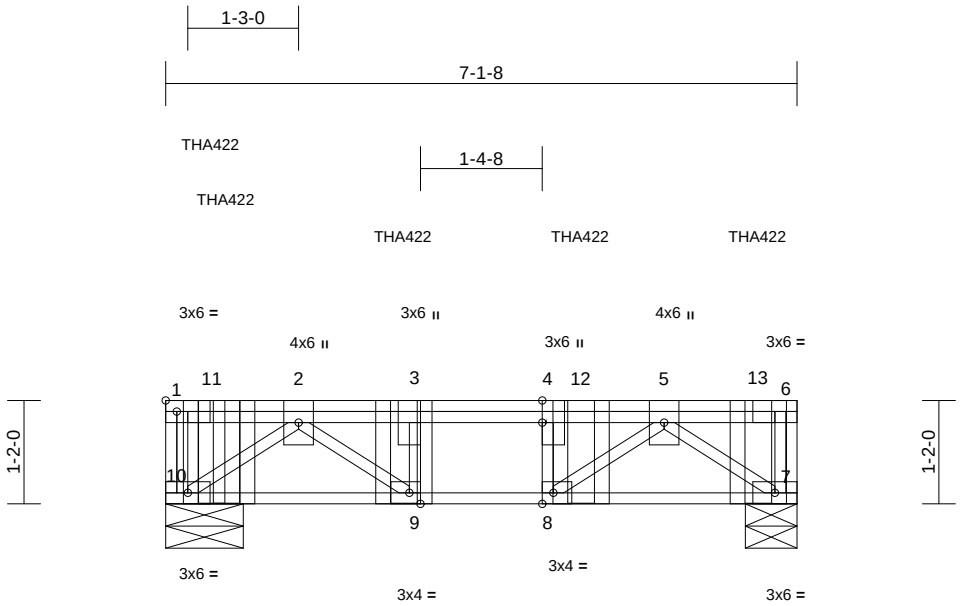
LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F19	Floor Girder	1	1	I72039817 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:23 Page: 1
ID:FLMF0QuaUjdcbAa3_AcTbHyvpyW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:26

Plate Offsets (X, Y): [4:0-3-0,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 48 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 7=0-7-0, 10=0-10-8
Max Grav 7=1080 (LC 1), 10=1147 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-416/0, 6-7=-327/0, 1-2=0/0, 2-3=-1597/0, 3-4=-1597/0, 4-5=-1597/0, 5-6=0/0
BOT CHORD 9-10=0/1049, 8-9=0/1597, 7-8=0/1061
WEBS 2-10=-1288/0, 2-9=0/761, 3-9=-407/0, 5-7=-1303/0, 5-8=0/814, 4-8=-439/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All bearings are assumed to be SP No.2 .
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-8-4 from the left end to 6-8-4 to connect truss(es) to front face of top chord.
5) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 0-6-3 from the left end to connect truss(es) to back face of top chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

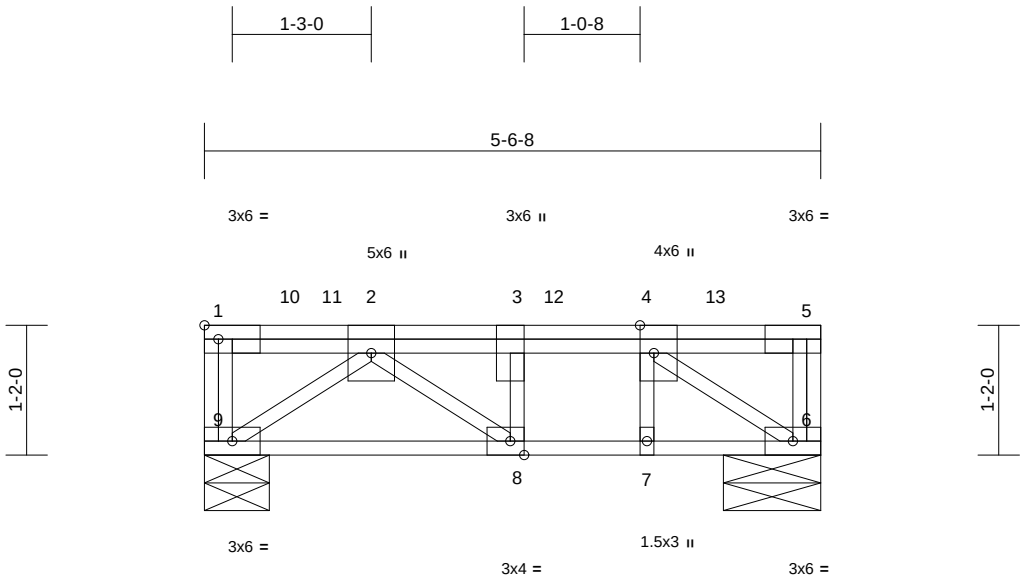
LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 7-10=-10, 1-6=-100
Concentrated Loads (lb)
Vert: 3=-321 (F), 11=-445 (F=-342, B=-102), 12=-321 (F), 13=-355 (F)

March 14,2025

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

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F20	Floor Girder	1	1	I72039818 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:23 Page: 1
ID:thI5HbmohyaR6HiQEvzQ?Nyvq?F-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:20.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.05	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.07	8-9	>938	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 38 lb	FT = 20%F, 11%E

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 6=0-10-8, 9=0-7-0
Max Grav 6=1720 (LC 1), 9=1474 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-252/0, 5-6=-830/0, 1-2=0/0, 2-3=-1649/0, 3-4=-1649/0, 4-5=0/0
BOT CHORD 8-9=0/1677, 7-8=0/1649, 6-7=0/1649
WEBS 2-9=-2059/0, 4-6=-1995/0, 2-8=-35/513, 3-8=-320/0, 4-7=0/117

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All bearings are assumed to be SP No.2 .
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 132 lb down and 168 lb up at 0-9-4, 826 lb down at 1-1-12, 132 lb down and 183 lb up at 2-9-4, 810 lb down at 3-1-12, and 154 lb down at 4-7-3, and 817 lb down at 5-5-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)
Vert: 6-9=-10, 1-5=-100
Concentrated Loads (lb)
Vert: 5=-766 (B), 3=-52 (F), 10=-66 (F), 11=-746 (B), 12=-730 (B), 13=-81 (F)

March 14,2025

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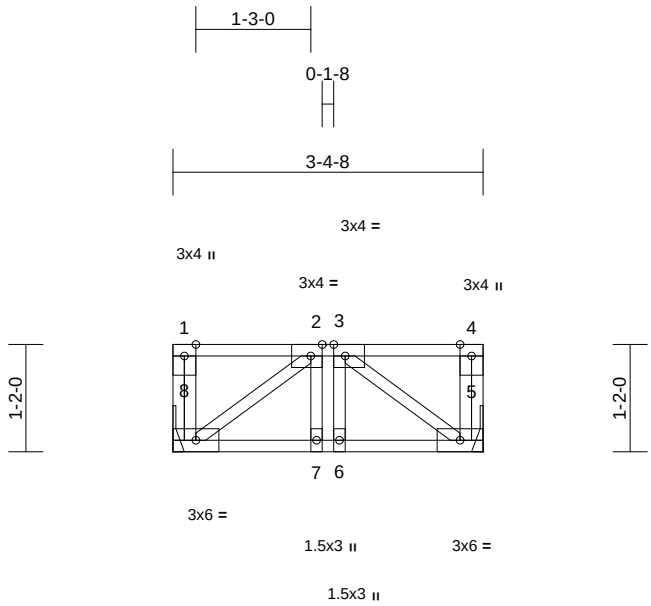
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Bridgeport, Palmetto, 2 Cameron Hill
4513014	F21	Floor	1	1	I72039819 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Mar 11 2025 Print: 8.830 S Mar 11 2025 MiTek Industries, Inc. Fri Mar 14 09:09:23 Page: 1
ID:t8EF9zMTiVIG135uEmMSdCyvq?n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:25.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	0.00	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.06	Vert(CT)	0.00	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 23 lb	FT = 20%F, 11%E

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 5= Mechanical, 8= Mechanical
Max Grav 5=172 (LC 1), 8=172 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-62/0, 4-5=-62/0, 1-2=0/0, 2-3=-147/0, 3-4=0/0
BOT CHORD 7-8=0/147, 6-7=0/147, 5-6=0/147
WEBS 2-8=-182/0, 3-5=-182/0, 2-7=-41/60, 3-6=-41/60

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

March 14,2025

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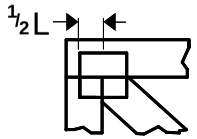
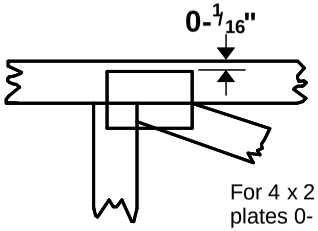
Symbols

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.

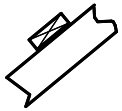
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

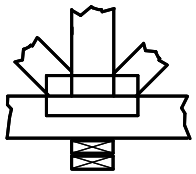
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

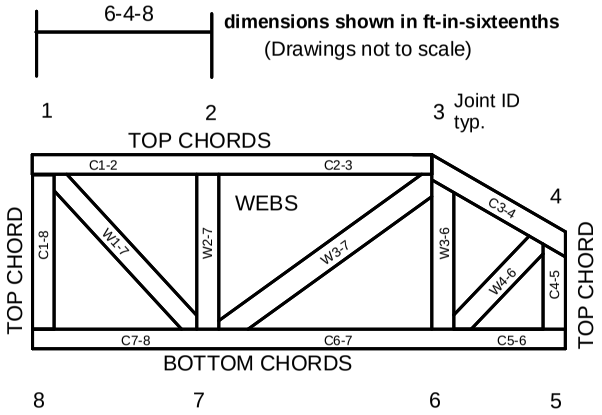


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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
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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.