ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: NC1_111-R
Caruso-Tillery1:OYLNC1 111

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

Pages or sheets covered by this seal: I57917591 thru I57917642

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844

April 21,2023

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1 111-R	AT01G	GABLE	1	1	I57917591
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.630 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 13:33:43 2023 Page 1
ID:JbnYVf1QbWGMYvS3eidP34zb6LG-Cz_dwJyeLoUN7Rui7MUn8_c4NhGqKU7_0CBRyuzOU3s

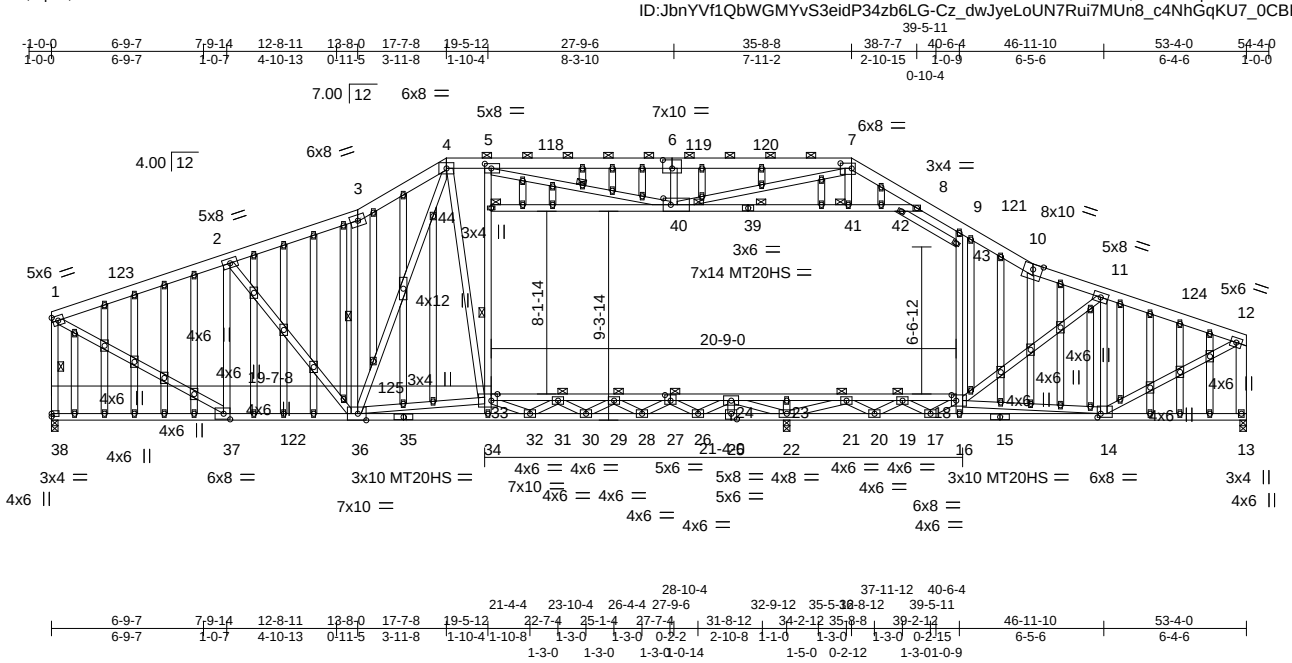

Plate Offsets (X,Y)-- [5:0-3-8,0-2-8], [6:0-5-0,0-4-8], [7:0-6-0,0-2-12], [14:0-1-12,0-2-0], [18:0-2-8,0-3-0], [25:0-3-0,0-3-0], [27:0-3-0,0-3-0], [33:0-3-4,Edge], [36:0-4-8,Edge], [37:0-3-8,0-3-0], [40:0-4-0,0-3-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.41	31-33	>951	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.70	34-36	>562	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.09	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.14	34-36	>999	240	Weight: 709 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
7-10: 2x6 SP DSS
BOT CHORD 2x4 SP No.2 *Except*
25-35: 2x4 SP No.1, 18-27: 2x4 SP SS
WEBS 2x4 SP No.3 *Except*
12-13: 2x6 SP No.2, 1-37,5-34,8-39,9-16,39-44: 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-13 max.): 4-7.
BOT CHORD Rigid ceiling directly applied or 5-9-5 oc bracing.
WEBS 1 Row at midpt 1-38, 33-44, 40-41, 5-40, 3-36
JOINTS 1 Brace at Jt(s): 40, 41, 44, 27, 31, 29, 21, 19

REACTIONS. (lb/size) 38=2068/0-3-8 (min. 0-2-9), 13=1911/0-3-8 (min. 0-2-5), 22=1284/0-3-8 (min. 0-2-6)
Max Horz 38=138(LC 9)
Max Grav 38=2178(LC 26), 13=1946(LC 2), 22=2013(LC 27)

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

TOP CHORD 1-38=-2109/0, 3-4=-2960/0, 4-5=-2469/0, 5-118=-2877/213, 118-119=-2877/213, 6-119=-2877/213, 6-120=-2855/208, 7-120=-2855/208, 7-8=-1455/207, 8-121=-2369/0, 9-121=-2406/0, 9-10=-2670/0, 12-13=-1889/0, 1-123=-2297/0, 2-123=-2244/0, 2-3=-2721/0, 10-11=-2706/0, 11-124=-2085/0, 12-124=-2162/0
BOT CHORD 37-122=0/2129, 36-122=0/2129, 35-36=0/2787, 34-35=0/2787, 32-34=0/2926, 30-32=0/3650, 28-30=0/3338, 26-28=0/2346, 25-26=-891/207, 22-25=-891/207, 20-22=-805/0, 17-20=-169/1102, 16-17=-345/2197, 15-16=-275/2169, 14-15=-275/2169, 31-33=-985/48, 29-31=-1291/325, 27-29=-805/945, 24-27=-151/1951, 23-24=0/4940, 21-23=0/4940, 19-21=0/2830, 18-19=-59/2525
WEBS 1-37=0/2439, 2-37=-1026/33, 33-44=-719/216, 5-44=-597/235, 39-40=-1684/0, 39-41=-1684/0, 41-42=-1686/0, 8-42=-1425/0, 18-43=-388/191, 9-43=-321/304, 11-14=-1150/0, 12-14=0/2335, 6-40=-543/120, 5-40=-278/837, 7-40=0/2052, 11-18=0/700, 14-18=-367/1756, 42-43=-307/20, 26-27=-1144/0, 32-33=-83/811, 31-32=-574/163, 30-31=-310/85, 29-30=-28/385, 28-29=-606/0, 27-28=0/678, 24-26=0/1530, 22-24=-2442/0, 21-22=-1999/0, 20-21=0/960, 19-20=-921/21, 17-19=-128/746, 17-18=-608/89, 22-23=-490/0, 2-36=0/645, 4-33=0/867, 4-36=-110/652, 36-125=-609/110, 33-125=-609/110, 3-36=-811/72

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 17-7-8, Exterior(2) 17-7-8 to 21-10-7, Interior(1) 21-10-7 to 35-8-8, Exterior(2) 35-8-8 to 39-11-7, Interior(1) 39-11-7 to 53-1-4 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) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.

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NORTH CAROLINA PROFESSIONAL SEAL 036322 ENGINEER ERIC A. GILBERT

April 21,2023

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

NOTES-

6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Ceiling dead load (5.0 psf) on member(s). 8-9, 9-10, 40-44, 40-41, 41-42, 8-42; Wall dead load (5.0psf) on member(s).33-44, 18-43, 9-43
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 31-33, 29-31, 27-29, 24-27, 23-24, 21-23, 19-21, 18-19
12) 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.
13) N/A

14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Attic room checked for L/360 deflection.

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-60, 4-7=-60, 7-8=-60, 8-10=-70, 13-38=-20, 18-33=-30, 8-44=-10, 1-3=-60, 10-12=-60
   Drag: 33-44=-10, 9-18=-10
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-50, 4-7=-50, 7-8=-50, 8-10=-60, 37-38=-20, 37-122=-50, 13-122=-20, 18-33=-90, 8-44=-10, 1-3=-50, 10-12=-50, 36-125=-30
   Drag: 33-44=-10, 9-18=-10
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 3-4=-20, 4-7=-20, 7-8=-20, 8-10=-30, 13-38=-40, 18-33=-30, 8-44=-10, 1-3=-20, 10-12=-20, 36-125=-40
   Drag: 33-44=-10, 9-18=-10
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 3-4=12, 4-118=20, 7-118=15, 7-8=17, 8-121=11, 10-121=6, 13-38=-12, 18-33=-18, 8-44=-6, 1-123=22, 3-123=12, 10-12=12
   Horz: 1-38=13, 3-4=-24, 7-121=29, 10-121=24, 12-13=24, 1-123=-34, 3-123=-24, 10-12=24
   Drag: 33-44=-10, 9-18=-10
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 3-4=17, 4-120=15, 7-120=20, 7-8=12, 8-10=6, 13-38=-12, 18-33=-18, 8-44=-6, 1-3=12, 10-124=12, 12-124=22
   Horz: 1-38=-24, 3-4=-29, 7-10=24, 12-13=-13, 1-3=-24, 10-124=24, 12-124=34
   Drag: 33-44=-10, 9-18=-10
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 3-4=-44, 4-7=-29, 7-8=-44, 8-10=-54, 13-38=-20, 18-33=-30, 8-44=-10, 1-3=-32, 10-12=-32
   Horz: 1-38=-15, 3-4=24, 7-10=-24, 12-13=-22, 1-3=12, 10-12=-12
   Drag: 33-44=-10, 9-18=-10
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 3-4=-44, 4-7=-29, 7-8=-44, 8-10=-54, 13-38=-20, 18-33=-30, 8-44=-10, 1-3=-32, 10-12=-32
   Horz: 1-38=22, 3-4=24, 7-10=-24, 12-13=15, 1-3=12, 10-12=-12
   Drag: 33-44=-10, 9-18=-10
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 3-4=-13, 4-7=9, 7-8=3, 8-10=-3, 13-38=-12, 18-33=-18, 8-44=-6, 1-3=9, 10-12=4
   Horz: 1-38=9, 3-4=1, 7-10=15, 12-13=14, 1-3=-21, 10-12=16
   Drag: 33-44=-10, 9-18=-10
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 3-4=3, 4-7=9, 7-8=-13, 8-10=-19, 13-38=-12, 18-33=-18, 8-44=-6, 1-3=4, 10-12=9
   Horz: 1-38=-14, 3-4=-15, 7-10=-1, 12-13=-9, 1-3=-16, 10-12=21
   Drag: 33-44=-10, 9-18=-10
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 3-4=-30, 4-7=-7, 7-8=-14, 8-10=-24, 13-38=-20, 18-33=-30, 8-44=-10, 1-3=-7, 10-12=-13
    Horz: 1-38=18, 3-4=10, 7-10=6, 12-13=5, 1-3=-13, 10-12=7
    Drag: 33-44=-10, 9-18=-10
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 3-4=-14, 4-7=-7, 7-8=-30, 8-10=-40, 13-38=-20, 18-33=-30, 8-44=-10, 1-3=-13, 10-12=-7
    Horz: 1-38=-5, 3-4=-6, 7-10=-10, 12-13=-18, 1-3=-7, 10-12=13
    Drag: 33-44=-10, 9-18=-10
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 3-4=9, 4-119=9, 7-119=2, 7-8=2, 8-10=-4, 13-38=-12, 18-33=-18, 8-44=-6, 1-3=9, 10-12=2
    Horz: 1-38=5, 3-4=-21, 7-10=14, 12-13=12, 1-3=-21, 10-12=14
    Drag: 33-44=-10, 9-18=-10
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 3-4=2, 4-119=2, 7-119=9, 7-8=9, 8-10=3, 13-38=-12, 18-33=-18, 8-44=-6, 1-3=2, 10-12=9
    Horz: 1-38=-12, 3-4=-14, 7-10=21, 12-13=-5, 1-3=-14, 10-12=21
    Drag: 33-44=-10, 9-18=-10
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 3-4=9, 4-119=9, 7-119=2, 7-8=2, 8-10=-4, 13-38=-12, 18-33=-18, 8-44=-6, 1-3=9, 10-12=2
Horz: 1-38=5, 3-4=-21, 7-10=14, 12-13=12, 1-3=-21, 10-12=14
Drag: 33-44=-10, 9-18=-10

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-4=2, 4-119=2, 7-119=9, 7-8=9, 8-10=3, 13-38=-12, 18-33=-18, 8-44=-6, 1-3=2, 10-12=9
Horz: 1-38=-12, 3-4=-14, 7-10=21, 12-13=-5, 1-3=-14, 10-12=21
Drag: 33-44=-10, 9-18=-10

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-4=-7, 4-119=-7, 7-119=-15, 7-8=-15, 8-10=-25, 13-38=-20, 18-33=-30, 8-44=-10, 1-3=-7, 10-12=-15
Horz: 1-38=14, 3-4=-13, 7-10=5, 12-13=3, 1-3=-13, 10-12=5
Drag: 33-44=-10, 9-18=-10

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-4=-15, 4-119=-15, 7-119=-7, 7-8=-7, 8-10=-17, 13-38=-20, 18-33=-30, 8-44=-10, 1-3=-15, 10-12=-7
Horz: 1-38=-3, 3-4=-5, 7-10=13, 12-13=-14, 1-3=-5, 10-12=13
Drag: 33-44=-10, 9-18=-10

18) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 3-4=-20, 4-7=-20, 7-8=-20, 8-10=-30, 37-38=-20, 37-122=-60, 13-122=-20, 18-33=-110, 8-44=-10, 1-3=-20, 10-12=-20, 36-125=-40
Drag: 33-44=-10, 9-18=-10

19) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 3-4=-20, 4-7=-20, 7-8=-20, 8-10=-30, 37-38=-20, 37-122=-60, 13-122=-20, 18-33=-110, 8-44=-10, 1-3=-20, 10-12=-20, 36-125=-40
Drag: 33-44=-10, 9-18=-10

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-4=-57, 4-7=-41, 7-8=-45, 8-10=-55, 37-38=-20, 37-122=-50, 13-122=-20, 18-33=-90, 8-44=-10, 1-3=-41, 10-12=-45, 36-125=-30
Horz: 1-38=14, 3-4=7, 7-10=5, 12-13=4, 1-3=-9, 10-12=5
Drag: 33-44=-10, 9-18=-10

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-4=-45, 4-7=-41, 7-8=-57, 8-10=-67, 37-38=-20, 37-122=-50, 13-122=-20, 18-33=-90, 8-44=-10, 1-3=-45, 10-12=-41, 36-125=-30
Horz: 1-38=-4, 3-4=-5, 7-10=-7, 12-13=-14, 1-3=-5, 10-12=9
Drag: 33-44=-10, 9-18=-10

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-4=-41, 4-119=-41, 7-119=-46, 7-8=-46, 8-10=-56, 37-38=-20, 37-122=-50, 13-122=-20, 18-33=-90, 8-44=-10, 1-3=-41, 10-12=-46, 36-125=-30
Horz: 1-38=11, 3-4=-9, 7-10=4, 12-13=2, 1-3=-9, 10-12=4
Drag: 33-44=-10, 9-18=-10

23) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-4=-46, 4-119=-46, 7-119=-41, 7-8=-41, 8-10=-51, 37-38=-20, 37-122=-50, 13-122=-20, 18-33=-90, 8-44=-10, 1-3=-46, 10-12=-41, 36-125=-30
Horz: 1-38=-2, 3-4=-4, 7-10=9, 12-13=-11, 1-3=-4, 10-12=9
Drag: 33-44=-10, 9-18=-10

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-60, 4-7=-60, 7-8=-20, 8-10=-30, 13-38=-20, 18-33=-30, 8-44=-10, 1-3=-60, 10-12=-20
Drag: 33-44=-10, 9-18=-10

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20, 4-7=-60, 7-8=-60, 8-10=-70, 13-38=-20, 18-33=-30, 8-44=-10, 1-3=-20, 10-12=-60
Drag: 33-44=-10, 9-18=-10

26) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-50, 4-7=-50, 7-8=-20, 8-10=-30, 37-38=-20, 37-122=-50, 13-122=-20, 18-33=-90, 8-44=-10, 1-3=-50, 10-12=-20, 36-125=-30
Drag: 33-44=-10, 9-18=-10

27) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20, 4-7=-50, 7-8=-50, 8-10=-60, 37-38=-20, 37-122=-50, 13-122=-20, 18-33=-90, 8-44=-10, 1-3=-20, 10-12=-50, 36-125=-30
Drag: 33-44=-10, 9-18=-10

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1 111-R	AT02	HIP	2	1	I57917592
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 13:34:11 2023 Page 1
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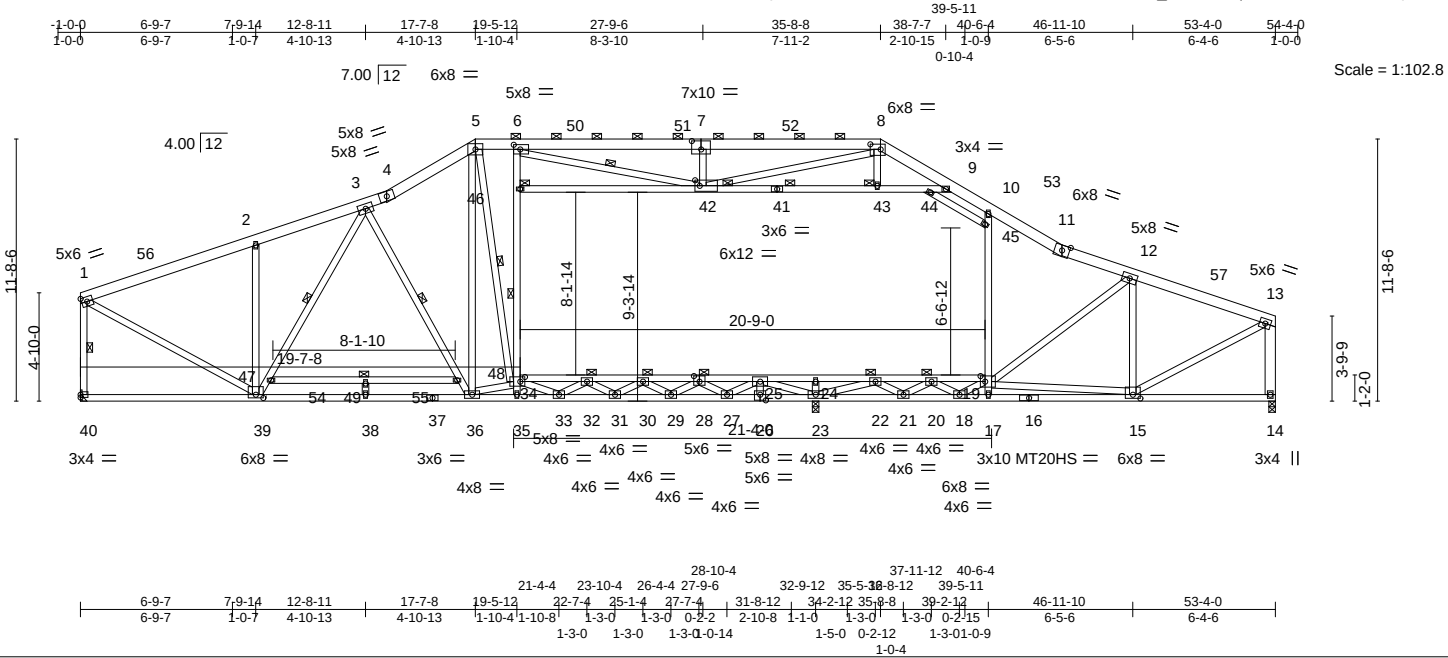

Plate Offsets (X,Y)-- [6:0-3-8,0-2-8], [7:0-5-0,0-4-8], [8:0-5-8,0-2-12], [15:0-4-0,0-2-0], [19:0-2-8,0-3-0], [26:0-3-0,0-3-0], [28:0-3-0,0-3-0], [34:0-2-8,0-2-8], [39:0-4-0,0-1-12], [42:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.42	36-38	>924	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.71	36-38	>549	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.09	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.12	35	>999	240	Weight: 519 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
8-11: 2x6 SP DSS
BOT CHORD 2x4 SP No.2 *Except*
37-40,26-37: 2x4 SP No.1, 19-28: 2x4 SP SS
WEBS 2x4 SP No.3 *Except*
13-14: 2x6 SP No.2, 6-35,9-41,10-17,41-46: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-4 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-2 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 5-5-14 oc bracing.
WEBS 1 Row at midpt 1-40, 5-34, 34-46, 42-43, 6-42, 3-36, 3-39, 47-48
JOINTS 1 Brace at Jt(s): 42, 43, 46, 28, 32, 30, 22, 20

REACTIONS. (lb/size) 40=2041/Mechanical, 14=1866/0-3-8 (min. 0-2-4), 23=1356/0-3-8 (min. 0-2-7)
Max Horz 40=138(LC 11)
Max Grav 40=2160(LC 2), 14=1910(LC 2), 23=2078(LC 27)

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

TOP CHORD 1-40=-2100/0, 4-5=-2741/0, 5-6=-2400/0, 6-50=-2820/219, 50-51=-2820/219, 7-51=-2820/219, 7-52=-2799/214, 8-52=-2799/214, 8-9=-1454/207, 9-53=-2317/0, 10-53=-2354/0, 10-11=-2600/0, 13-14=-1853/0, 1-56=-2292/0, 2-56=-2236/0, 2-3=-2261/0, 3-4=-2699/0, 11-12=-2637/0, 12-57=-2041/0, 13-57=-2119/0
BOT CHORD 38-39=0/2468, 37-38=0/2468, 36-37=0/2468, 35-36=0/3252, 33-35=0/3403, 31-33=0/4041, 29-31=0/3587, 27-29=0/2455, 26-27=-949/198, 23-26=-949/198, 21-23=-910/0, 18-21=-171/1093, 17-18=-327/2256, 16-17=-261/2219, 15-16=-261/2219, 32-34=-1533/0, 30-32=-1563/47, 28-30=-982/763, 25-28=-159/1855, 24-25=0/5042, 22-24=0/5042, 20-22=0/2830, 19-20=-70/2451
WEBS 1-39=0/2424, 2-39=-380/126, 5-34=-87/524, 34-46=-732/209, 6-46=-610/229, 41-42=-1610/0, 41-43=-1610/0, 43-44=-1613/0, 9-44=-1361/0, 19-45=-409/181, 10-45=-349/293, 12-15=-1116/0, 13-15=0/2286, 7-42=-535/121, 6-42=-274/873, 8-42=0/1996, 34-36=-1114/119, 12-19=0/672, 15-19=-463/1683, 44-45=-296/22, 27-28=-1226/0, 33-34=-83/849, 32-33=-491/253, 31-32=-392/73, 30-31=-24/451, 29-30=-684/0, 28-29=0/761, 25-27=0/1624, 23-25=-2541/0, 22-23=-2058/0, 21-22=0/1003, 20-21=-966/8, 18-20=-115/792, 18-19=-646/78, 23-24=-494/0, 5-36=-32/910, 3-48=-309/129, 36-48=-307/121, 39-47=-782/0, 3-47=-756/0

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 17-7-8, Exterior(2) 17-7-8 to 21-10-7, Interior(1) 21-10-7 to 35-8-8, Exterior(2) 35-8-8 to 39-11-7, Interior(1) 39-11-7 to 53-1-4 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) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

April 21,2023

Continued on page 2

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

NOTES-

7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Ceiling dead load (5.0 psf) on member(s). 9-10, 10-11, 42-46, 42-43, 43-44, 9-44; Wall dead load (5.0psf) on member(s).34-46, 19-45, 10-45
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 32-34, 30-32, 28-30, 25-28, 24-25, 22-24, 20-22, 19-20
10) Refer to girder(s) for truss to truss connections.
11) 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.
12) N/A

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Attic room checked for L/360 deflection.

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-5=-60, 5-8=-60, 8-9=-60, 9-11=-70, 14-40=-20, 19-34=-30, 9-46=-10, 1-4=-60, 11-13=-60
   Drag: 34-46=-10, 10-19=-10
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-5=-50, 5-8=-50, 8-9=-50, 9-11=-60, 14-40=-20, 19-34=-90, 9-46=-10, 54-55=-30, 1-4=-50, 11-13=-50
   Drag: 34-46=-10, 10-19=-10
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 4-5=-20, 5-8=-20, 8-9=-20, 9-11=-30, 14-40=-40, 19-34=-30, 9-46=-10, 54-55=-40, 1-4=-20, 11-13=-20
   Drag: 34-46=-10, 10-19=-10
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=12, 5-50=20, 8-50=15, 8-9=17, 9-53=11, 11-53=6, 14-40=-12, 19-34=-18, 9-46=-6, 1-56=22, 4-56=12, 11-13=12
   Horz: 1-40=13, 4-5=-24, 8-53=29, 11-53=24, 13-14=24, 1-56=-34, 4-56=-24, 11-13=24
   Drag: 34-46=-10, 10-19=-10
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=17, 5-52=15, 8-52=20, 8-9=12, 9-11=6, 14-40=-12, 19-34=-18, 9-46=-6, 1-4=12, 11-57=12, 13-57=22
   Horz: 1-40=-24, 4-5=-29, 8-11=24, 13-14=-13, 1-4=-24, 11-57=24, 13-57=34
   Drag: 34-46=-10, 10-19=-10
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=-44, 5-8=-29, 8-9=-44, 9-11=-54, 14-40=-20, 19-34=-30, 9-46=-10, 1-4=-32, 11-13=-32
   Horz: 1-40=-15, 4-5=24, 8-11=-24, 13-14=-22, 1-4=12, 11-13=-12
   Drag: 34-46=-10, 10-19=-10
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=-44, 5-8=-29, 8-9=-44, 9-11=-54, 14-40=-20, 19-34=-30, 9-46=-10, 1-4=-32, 11-13=-32
   Horz: 1-40=22, 4-5=24, 8-11=-24, 13-14=15, 1-4=12, 11-13=-12
   Drag: 34-46=-10, 10-19=-10
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=-13, 5-8=9, 8-9=3, 9-11=-3, 14-40=-12, 19-34=-18, 9-46=-6, 1-4=9, 11-13=4
   Horz: 1-40=9, 4-5=1, 8-11=15, 13-14=14, 1-4=-21, 11-13=16
   Drag: 34-46=-10, 10-19=-10
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=3, 5-8=9, 8-9=-13, 9-11=-19, 14-40=-12, 19-34=-18, 9-46=-6, 1-4=4, 11-13=9
   Horz: 1-40=-14, 4-5=-15, 8-11=-1, 13-14=-9, 1-4=-16, 11-13=21
   Drag: 34-46=-10, 10-19=-10
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-5=-30, 5-8=-7, 8-9=-14, 9-11=-24, 14-40=-20, 19-34=-30, 9-46=-10, 1-4=-7, 11-13=-13
    Horz: 1-40=18, 4-5=10, 8-11=6, 13-14=5, 1-4=-13, 11-13=7
    Drag: 34-46=-10, 10-19=-10
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-5=-14, 5-8=-7, 8-9=-30, 9-11=-40, 14-40=-20, 19-34=-30, 9-46=-10, 1-4=-13, 11-13=-7
    Horz: 1-40=-5, 4-5=-6, 8-11=-10, 13-14=-18, 1-4=-7, 11-13=13
    Drag: 34-46=-10, 10-19=-10
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-5=9, 5-51=9, 8-51=2, 8-9=2, 9-11=-4, 14-40=-12, 19-34=-18, 9-46=-6, 1-4=9, 11-13=2
    Horz: 1-40=5, 4-5=-21, 8-11=14, 13-14=12, 1-4=-21, 11-13=14
    Drag: 34-46=-10, 10-19=-10
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-5=2, 5-51=2, 8-51=9, 8-9=9, 9-11=3, 14-40=-12, 19-34=-18, 9-46=-6, 1-4=2, 11-13=9
    Horz: 1-40=-12, 4-5=-14, 8-11=21, 13-14=-5, 1-4=-14, 11-13=21
    Drag: 34-46=-10, 10-19=-10
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 4-5=9, 5-51=9, 8-51=2, 8-9=2, 9-11=-4, 14-40=-12, 19-34=-18, 9-46=-6, 1-4=9, 11-13=2
Horz: 1-40=5, 4-5=-21, 8-11=14, 13-14=12, 1-4=-21, 11-13=14
Drag: 34-46=-10, 10-19=-10

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=2, 5-51=2, 8-51=9, 8-9=9, 9-11=3, 14-40=-12, 19-34=-18, 9-46=-6, 1-4=2, 11-13=9
Horz: 1-40=-12, 4-5=-14, 8-11=21, 13-14=-5, 1-4=-14, 11-13=21
Drag: 34-46=-10, 10-19=-10

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-7, 5-51=-7, 8-51=-15, 8-9=-15, 9-11=-25, 14-40=-20, 19-34=-30, 9-46=-10, 1-4=-7, 11-13=-15
Horz: 1-40=14, 4-5=-13, 8-11=5, 13-14=3, 1-4=-13, 11-13=5
Drag: 34-46=-10, 10-19=-10

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-15, 5-51=-15, 8-51=-7, 8-9=-7, 9-11=-17, 14-40=-20, 19-34=-30, 9-46=-10, 1-4=-15, 11-13=-7
Horz: 1-40=-3, 4-5=-5, 8-11=13, 13-14=-14, 1-4=-5, 11-13=13
Drag: 34-46=-10, 10-19=-10

18) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-5=-20, 5-8=-20, 8-9=-20, 9-11=-30, 14-40=-20, 19-34=-110, 9-46=-10, 54-55=-40, 1-4=-20, 11-13=-20
Drag: 34-46=-10, 10-19=-10

19) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-5=-20, 5-8=-20, 8-9=-20, 9-11=-30, 14-40=-20, 19-34=-110, 9-46=-10, 54-55=-40, 1-4=-20, 11-13=-20
Drag: 34-46=-10, 10-19=-10

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-57, 5-8=-41, 8-9=-45, 9-11=-55, 14-40=-20, 19-34=-90, 9-46=-10, 54-55=-30, 1-4=-41, 11-13=-45
Horz: 1-40=14, 4-5=7, 8-11=5, 13-14=4, 1-4=-9, 11-13=5
Drag: 34-46=-10, 10-19=-10

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-45, 5-8=-41, 8-9=-57, 9-11=-67, 14-40=-20, 19-34=-90, 9-46=-10, 54-55=-30, 1-4=-45, 11-13=-41
Horz: 1-40=-4, 4-5=-5, 8-11=-7, 13-14=-14, 1-4=-5, 11-13=9
Drag: 34-46=-10, 10-19=-10

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-41, 5-51=-41, 8-51=-46, 8-9=-46, 9-11=-56, 14-40=-20, 19-34=-90, 9-46=-10, 54-55=-30, 1-4=-41, 11-13=-46
Horz: 1-40=11, 4-5=-9, 8-11=4, 13-14=2, 1-4=-9, 11-13=4
Drag: 34-46=-10, 10-19=-10

23) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-46, 5-51=-46, 8-51=-41, 8-9=-41, 9-11=-51, 14-40=-20, 19-34=-90, 9-46=-10, 54-55=-30, 1-4=-46, 11-13=-41
Horz: 1-40=-2, 4-5=-4, 8-11=9, 13-14=-11, 1-4=-4, 11-13=9
Drag: 34-46=-10, 10-19=-10

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-60, 5-8=-60, 8-9=-20, 9-11=-30, 14-40=-20, 19-34=-30, 9-46=-10, 1-4=-60, 11-13=-20
Drag: 34-46=-10, 10-19=-10

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-20, 5-8=-60, 8-9=-60, 9-11=-70, 14-40=-20, 19-34=-30, 9-46=-10, 1-4=-20, 11-13=-60
Drag: 34-46=-10, 10-19=-10

26) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-50, 5-8=-50, 8-9=-20, 9-11=-30, 14-40=-20, 19-34=-90, 9-46=-10, 54-55=-30, 1-4=-50, 11-13=-20
Drag: 34-46=-10, 10-19=-10

27) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-20, 5-8=-50, 8-9=-50, 9-11=-60, 14-40=-20, 19-34=-90, 9-46=-10, 54-55=-30, 1-4=-20, 11-13=-50
Drag: 34-46=-10, 10-19=-10

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1 111-R	AT03	HIP	4	1	I57917593
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.630 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 13:34:30 2023 Page 1

ID:JbnYVf1QbWGMYvS3eidP34zb6LG-K0KOoOX6HFPjGf_kNkqoYu398eJEqndvq04R6gzOU37

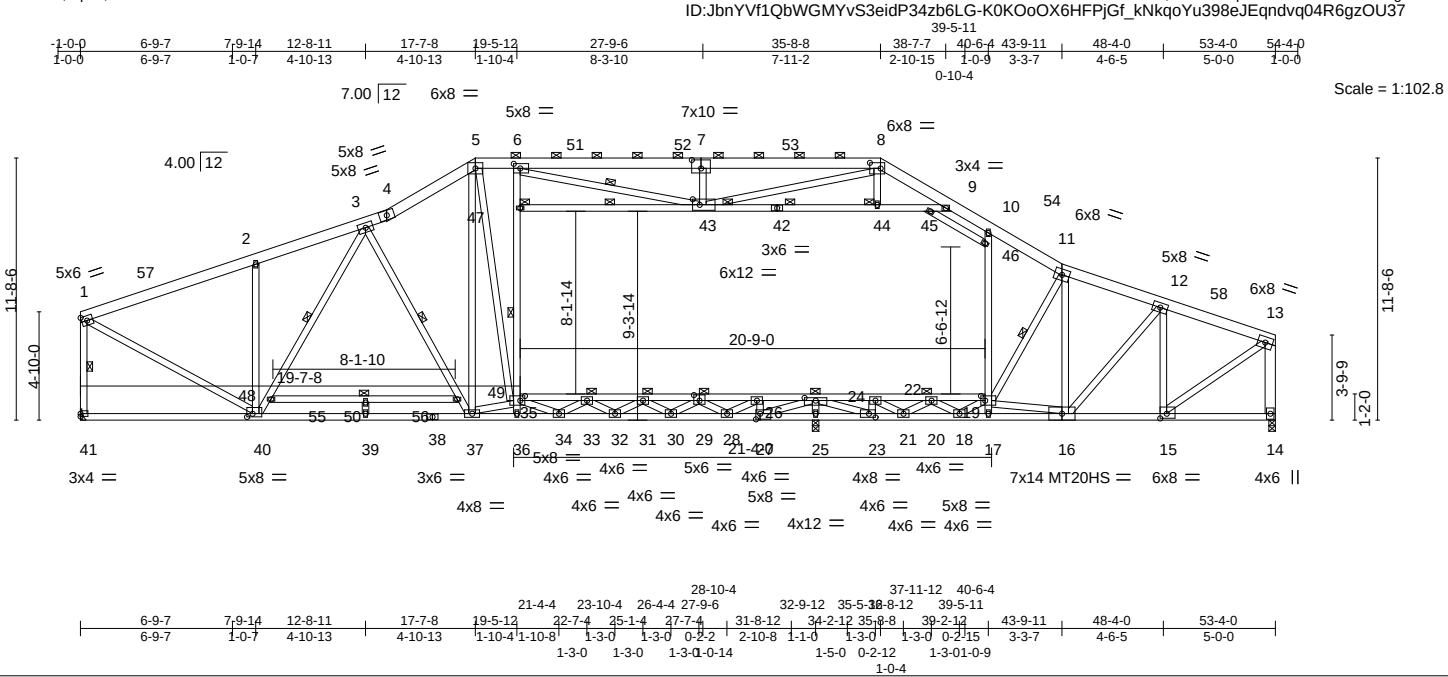

Plate Offsets (X,Y)-- [6:0-3-8,0-2-8], [7:0-5-0,0-4-8], [8:0-5-12,0-3-0], [15:0-3-8,0-2-8], [19:0-2-4,0-2-8], [23:0-3-8,0-2-0], [24:0-6-0,0-1-8], [27:0-2-4,0-3-0], [29:0-3-0,0-3-0], [35:0-2-8,0-2-8], [40:0-3-0,0-1-12], [43:0-3-12,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.40	37-39	>984	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.56	37-39	>697	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.10	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.12	36	>999	240	Weight: 529 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2

BOT CHORD 2x4 SP No.1 *Except*
29-35,16-27: 2x4 SP SS, 14-16: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*
13-14: 2x6 SP No.2
1-40,6-36,9-42,10-17,13-15,42-47,24-27,23-24: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-7 max.): 5-8.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
5-7-7 oc bracing: 27-28
3-6-5 oc bracing: 25-27,23-25
6-0-0 oc bracing: 21-23.
4-6-0 oc bracing: 19-20
6-0-0 oc bracing: 33-35, 31-33, 29-31
8-3-0 oc bracing: 20-29

WEBS 1 Row at midpt 1-41, 35-47, 43-47, 43-44, 6-43, 11-19, 3-37, 3-40, 48-49

JOINTS 1 Brace at Jt(s): 43, 44, 47, 29, 33, 31, 20

REACTIONS. (lb/size) 41=2079/Mechanical, 14=3146/0-3-8 (req. 0-3-12), 25=1655/0-3-8 (min. 0-2-13)
Max Horz 41=138(LC 9)
Max Grav 41=2203(LC 2), 14=3197(LC 2), 25=2374(LC 27)

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

TOP CHORD 1-41=-2143/0, 4-5=-2818/0, 5-6=-2540/0, 6-51=-2928/228, 51-52=-2928/228, 7-52=-2928/228, 7-53=-2908/222, 8-53=-2908/222, 8-9=-1621/115, 9-54=-2569/0, 10-54=-2611/0, 10-11=-3091/0, 13-14=-3143/0, 1-57=-2341/0, 2-57=-2285/0, 2-3=-2310/8, 3-4=-2774/0, 11-12=-3281/0, 12-58=-2586/0, 13-58=-2812/0

BOT CHORD 39-40=0/2531, 38-39=0/2531, 37-38=0/2531, 36-37=-296/2756, 34-36=-340/2838, 32-34=-72/3479, 30-32=-138/3031, 28-30=-391/1899, 27-28=-1240/0, 25-27=-3145/0, 23-25=-3145/0, 21-23=-629/63, 18-21=0/2640, 17-18=0/4585, 16-17=0/4457, 15-16=0/2510, 33-35=-831/528, 31-33=-883/639, 29-31=-305/1318, 26-29=0/2383, 24-26=0/3259, 22-24=0/3104, 20-22=-572/2080, 19-20=-1996/877

WEBS 1-40=0/2479, 2-40=-379/126, 5-35=0/842, 35-47=-812/117, 6-47=-690/136, 42-43=-1477/0, 42-44=-1477/0, 44-45=-1482/0, 9-45=-1370/0, 19-46=-38/570, 10-46=-26/640, 12-15=-1697/0, 13-15=0/3020, 7-43=-506/148, 6-43=-284/876, 8-43=-108/1833, 35-37=-549/585, 11-19=-1348/0, 16-19=-1885/776, 26-27=-979/0, 28-29=-1168/0, 34-35=-59/844, 33-34=-497/224, 32-33=-365/22, 31-32=0/427, 30-31=-661/0, 29-30=0/741, 26-28=0/1513, 24-27=0/2639, 23-24=0/2911, 21-22=0/1734, 20-21=-1463/0, 18-20=0/1350, 18-19=-1055/0, 24-25=-2124/0, 5-37=-199/681, 3-49=-304/127, 37-49=-301/119, 40-48=-815/0, 3-48=-790/0, 12-16=-142/697, 11-16=-606/590, 22-23=-1064/0

NOTES-

1) Unbalanced roof live loads have been considered for this design.

April 21,2023

Continued on page 2

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

NOTES-

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 17-7-8, Exterior(2) 17-7-8 to 21-10-7, Interior(1) 21-10-7 to 35-8-8, Exterior(2) 35-8-8 to 39-11-7, Interior(1) 39-11-7 to 53-1-4 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) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 MT20 unless otherwise indicated.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Ceiling dead load (5.0 psf) on member(s). 9-10, 10-11, 43-47, 43-44, 44-45, 9-45; Wall dead load (5.0psf) on member(s).35-47, 19-46, 10-46
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 33-35, 31-33, 29-31, 26-29, 24-26, 22-24, 20-22, 19-20
10) WARNING: Required bearing size at joint(s) 14 greater than input bearing size.
11) Refer to girder(s) for truss to truss connections.
12) 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.
13) N/A

14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Attic room checked for L/360 deflection.
16) 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)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-5=-60, 5-8=-60, 8-9=-60, 9-10=-70, 14-41=-20, 19-35=-30, 9-47=-10, 1-4=-60
   Drag: 35-47=-10, 10-19=-10
   Trapezoidal Loads (plf)
   Vert: 10=-120(F=-50)-to-11=-161(F=-91), 11=-151(F=-91)-to-13=-267(F=-207)
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-5=-50, 5-8=-50, 8-9=-50, 9-10=-60, 14-41=-20, 19-35=-90, 9-47=-10, 55-56=-30, 1-4=-50
   Drag: 35-47=-10, 10-19=-10
   Trapezoidal Loads (plf)
   Vert: 10=-110(F=-50)-to-11=-151(F=-91), 11=-141(F=-91)-to-13=-257(F=-207)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 4-5=-20, 5-8=-20, 8-9=-20, 9-10=-30, 14-41=-40, 19-35=-30, 9-47=-10, 55-56=-40, 1-4=-20
   Drag: 35-47=-10, 10-19=-10
   Trapezoidal Loads (plf)
   Vert: 10=-80(F=-50)-to-11=-121(F=-91), 11=-111(F=-91)-to-13=-227(F=-207)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=12, 5-51=20, 8-51=15, 8-9=17, 9-54=11, 10-54=6, 14-41=-12, 19-35=-18, 9-47=-6, 1-57=22, 4-57=12
   Horz: 1-41=13, 4-5=-24, 8-54=29, 11-54=24, 13-14=24, 1-57=-34, 4-57=-24, 11-13=24
   Drag: 35-47=-10, 10-19=-10
   Trapezoidal Loads (plf)
   Vert: 10=-44(F=-50)-to-11=-85(F=-91), 11=-79(F=-91)-to-13=-195(F=-207)
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=17, 5-53=15, 8-53=20, 8-9=12, 9-10=6, 14-41=-12, 19-35=-18, 9-47=-6, 1-4=12
   Horz: 1-41=-24, 4-5=-29, 8-11=24, 13-14=-13, 1-4=-24, 11-58=24, 13-58=34
   Drag: 35-47=-10, 10-19=-10
   Trapezoidal Loads (plf)
   Vert: 10=-44(F=-50)-to-11=-85(F=-91), 11=-79(F=-91)-to-58=-157(F=-170), 58=-148(F=-170)-to-13=-185(F=-207)
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=-44, 5-8=-29, 8-9=-44, 9-10=-54, 14-41=-20, 19-35=-30, 9-47=-10, 1-4=-32
   Horz: 1-41=-15, 4-5=24, 8-11=-24, 13-14=-22, 1-4=12, 11-13=-12
   Drag: 35-47=-10, 10-19=-10
   Trapezoidal Loads (plf)
   Vert: 10=-104(F=-50)-to-11=-145(F=-91), 11=-123(F=-91)-to-13=-239(F=-207)
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=-44, 5-8=-29, 8-9=-44, 9-10=-54, 14-41=-20, 19-35=-30, 9-47=-10, 1-4=-32
   Horz: 1-41=22, 4-5=24, 8-11=-24, 13-14=15, 1-4=12, 11-13=-12
   Drag: 35-47=-10, 10-19=-10
   Trapezoidal Loads (plf)
   Vert: 10=-104(F=-50)-to-11=-145(F=-91), 11=-123(F=-91)-to-13=-239(F=-207)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=-13, 5-8=9, 8-9=3, 9-10=-3, 14-41=-12, 19-35=-18, 9-47=-6, 1-4=9
   Horz: 1-41=9, 4-5=1, 8-11=15, 13-14=14, 1-4=-21, 11-13=16
   Drag: 35-47=-10, 10-19=-10
   Trapezoidal Loads (plf)
   Vert: 10=-53(F=-50)-to-11=-94(F=-91), 11=-87(F=-91)-to-13=-203(F=-207)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 4-5=3, 5-8=9, 8-9=-13, 9-10=-19, 14-41=-12, 19-35=-18, 9-47=-6, 1-4=4
Horz: 1-41=-14, 4-5=-15, 8-11=-1, 13-14=-9, 1-4=-16, 11-13=21
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-69(F=-50)-to-11=-110(F=-91), 11=-82(F=-91)-to-13=-198(F=-207)

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-30, 5-8=-7, 8-9=-14, 9-10=-24, 14-41=-20, 19-35=-30, 9-47=-10, 1-4=-7
Horz: 1-41=18, 4-5=10, 8-11=6, 13-14=5, 1-4=-13, 11-13=7
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-74(F=-50)-to-11=-115(F=-91), 11=-104(F=-91)-to-13=-220(F=-207)

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-14, 5-8=-7, 8-9=-30, 9-10=-40, 14-41=-20, 19-35=-30, 9-47=-10, 1-4=-13
Horz: 1-41=-5, 4-5=-6, 8-11=-10, 13-14=-18, 1-4=-7, 11-13=13
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-90(F=-50)-to-11=-131(F=-91), 11=-98(F=-91)-to-13=-214(F=-207)

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=9, 5-52=9, 8-52=2, 8-9=2, 9-10=-4, 14-41=-12, 19-35=-18, 9-47=-6, 1-4=9
Horz: 1-41=5, 4-5=-21, 8-11=14, 13-14=12, 1-4=-21, 11-13=14
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-54(F=-50)-to-11=-95(F=-91), 11=-89(F=-91)-to-13=-205(F=-207)

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=2, 5-52=2, 8-52=9, 8-9=9, 9-10=3, 14-41=-12, 19-35=-18, 9-47=-6, 1-4=2
Horz: 1-41=-12, 4-5=-14, 8-11=21, 13-14=-5, 1-4=-14, 11-13=21
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-47(F=-50)-to-11=-88(F=-91), 11=-82(F=-91)-to-13=-198(F=-207)

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=9, 5-52=9, 8-52=2, 8-9=2, 9-10=-4, 14-41=-12, 19-35=-18, 9-47=-6, 1-4=9
Horz: 1-41=5, 4-5=-21, 8-11=14, 13-14=12, 1-4=-21, 11-13=14
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-54(F=-50)-to-11=-95(F=-91), 11=-89(F=-91)-to-13=-205(F=-207)

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=2, 5-52=2, 8-52=9, 8-9=9, 9-10=3, 14-41=-12, 19-35=-18, 9-47=-6, 1-4=2
Horz: 1-41=-12, 4-5=-14, 8-11=21, 13-14=-5, 1-4=-14, 11-13=21
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-47(F=-50)-to-11=-88(F=-91), 11=-82(F=-91)-to-13=-198(F=-207)

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-7, 5-52=-7, 8-52=-15, 8-9=-15, 9-10=-25, 14-41=-20, 19-35=-30, 9-47=-10, 1-4=-7
Horz: 1-41=14, 4-5=-13, 8-11=5, 13-14=3, 1-4=-13, 11-13=5
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-75(F=-50)-to-11=-116(F=-91), 11=-106(F=-91)-to-13=-222(F=-207)

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-15, 5-52=-15, 8-52=-7, 8-9=-7, 9-10=-17, 14-41=-20, 19-35=-30, 9-47=-10, 1-4=-15
Horz: 1-41=-3, 4-5=-5, 8-11=13, 13-14=-14, 1-4=-5, 11-13=13
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-67(F=-50)-to-11=-108(F=-91), 11=-98(F=-91)-to-13=-214(F=-207)

18) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-5=-20, 5-8=-20, 8-9=-20, 9-10=-30, 14-41=-20, 19-35=-110, 9-47=-10, 55-56=-40, 1-4=-20
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-80(F=-50)-to-11=-121(F=-91), 11=-111(F=-91)-to-13=-227(F=-207)

19) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-5=-20, 5-8=-20, 8-9=-20, 9-10=-30, 14-41=-20, 19-35=-110, 9-47=-10, 55-56=-40, 1-4=-20
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-80(F=-50)-to-11=-121(F=-91), 11=-111(F=-91)-to-13=-227(F=-207)

Continued on page 4

LOAD CASE(S)

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-57, 5-8=-41, 8-9=-45, 9-10=-55, 14-41=-20, 19-35=-90, 9-47=-10, 55-56=-30, 1-4=-41
Horz: 1-41=14, 4-5=7, 8-11=5, 13-14=4, 1-4=-9, 11-13=5
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-105(F=-50)-to-11=-146(F=-91), 11=-136(F=-91)-to-13=-252(F=-207)

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-45, 5-8=-41, 8-9=-57, 9-10=-67, 14-41=-20, 19-35=-90, 9-47=-10, 55-56=-30, 1-4=-45
Horz: 1-41=-4, 4-5=-5, 8-11=-7, 13-14=-14, 1-4=-5, 11-13=9
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-117(F=-50)-to-11=-158(F=-91), 11=-132(F=-91)-to-13=-248(F=-207)

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-41, 5-52=-41, 8-52=-46, 8-9=-46, 9-10=-56, 14-41=-20, 19-35=-90, 9-47=-10, 55-56=-30, 1-4=-41
Horz: 1-41=11, 4-5=-9, 8-11=4, 13-14=2, 1-4=-9, 11-13=4
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-106(F=-50)-to-11=-147(F=-91), 11=-137(F=-91)-to-13=-253(F=-207)

23) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-46, 5-52=-46, 8-52=-41, 8-9=-41, 9-10=-51, 14-41=-20, 19-35=-90, 9-47=-10, 55-56=-30, 1-4=-46
Horz: 1-41=-2, 4-5=-4, 8-11=9, 13-14=-11, 1-4=-4, 11-13=9
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-101(F=-50)-to-11=-142(F=-91), 11=-132(F=-91)-to-13=-248(F=-207)

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-60, 5-8=-60, 8-9=-20, 9-10=-30, 14-41=-20, 19-35=-30, 9-47=-10, 1-4=-60
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-80(F=-50)-to-11=-121(F=-91), 11=-111(F=-91)-to-13=-227(F=-207)

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-20, 5-8=-60, 8-9=-60, 9-10=-70, 14-41=-20, 19-35=-30, 9-47=-10, 1-4=-20
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-120(F=-50)-to-11=-161(F=-91), 11=-151(F=-91)-to-13=-267(F=-207)

26) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-50, 5-8=-50, 8-9=-20, 9-10=-30, 14-41=-20, 19-35=-90, 9-47=-10, 55-56=-30, 1-4=-50
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-80(F=-50)-to-11=-121(F=-91), 11=-111(F=-91)-to-13=-227(F=-207)

27) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-20, 5-8=-50, 8-9=-50, 9-10=-60, 14-41=-20, 19-35=-90, 9-47=-10, 55-56=-30, 1-4=-20
Drag: 35-47=-10, 10-19=-10
Trapezoidal Loads (plf)
Vert: 10=-110(F=-50)-to-11=-151(F=-91), 11=-141(F=-91)-to-13=-257(F=-207)

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1 111-R	AT04	HIP	2	1	I57917594
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 13:34:51 2023 Page 1
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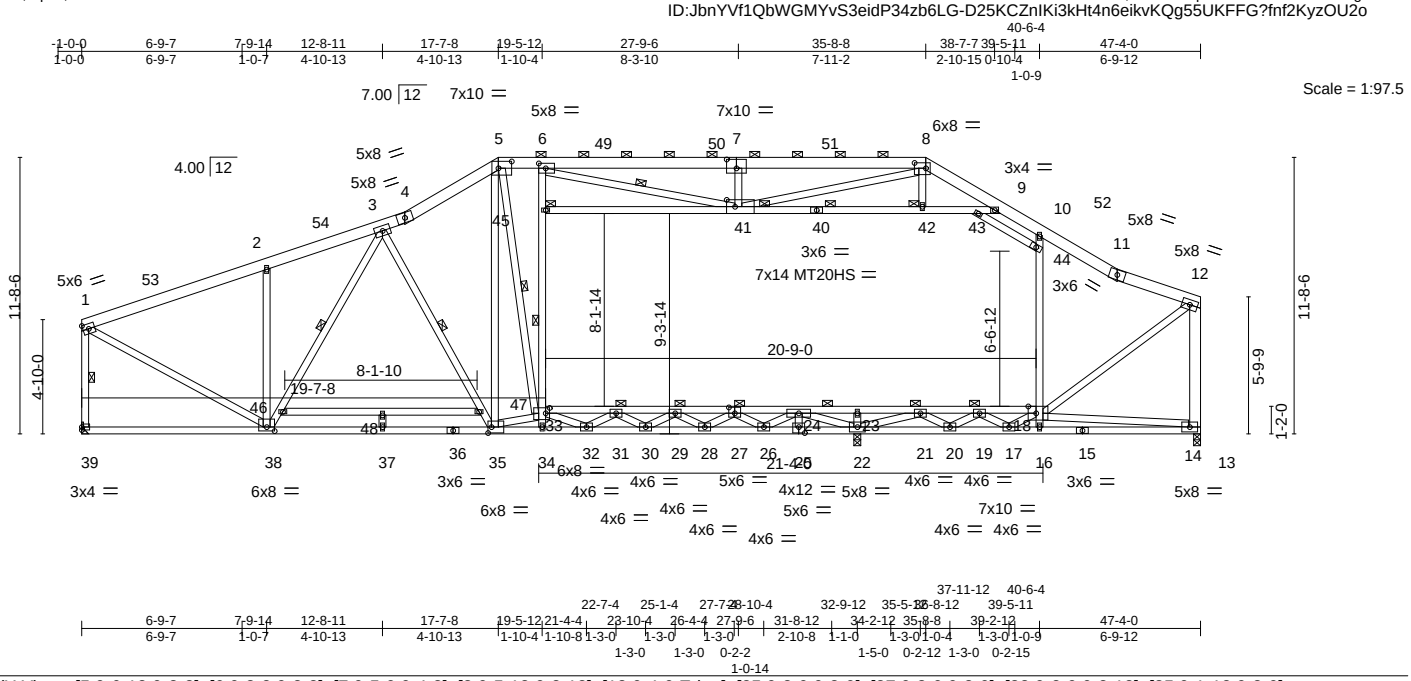

Plate Offsets (X,Y)-- [5:0-6-12,0-3-8], [6:0-3-8,0-2-8], [7:0-5-0,0-4-8], [8:0-5-12,0-2-12], [18:0-4-0,Edge], [25:0-3-0,0-3-0], [27:0-3-0,0-3-0], [33:0-2-0,0-2-12], [35:0-1-12,0-3-0], [38:0-4-0,0-2-0], [41:0-4-4,0-3-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.55	34	>717	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-1.02	34	>384	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.10	22	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.22	34	>999	240	Weight: 482 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
8-11: 2x6 SP DSS

BOT CHORD 2x4 SP No.2 *Except*
27-33,25-36,18-27: 2x4 SP SS

WEBS 2x4 SP No.3 *Except*
12-13: 2x6 SP No.2, 6-34,9-40,14-18,40-45: 2x4 SP No.2
10-16: 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-8 max.): 5-8.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
3-10-8 oc bracing: 20-22
3-11-11 oc bracing: 17-20
2-10-5 oc bracing: 16-17
3-1-12 oc bracing: 14-16.
3-3-0 oc bracing: 31-33
3-9-0 oc bracing: 29-31
4-7-0 oc bracing: 27-29
6-0-0 oc bracing: 21-27
10-0-0 oc bracing: 19-21, 18-19

WEBS 1 Row at midpt 1-39, 5-33, 33-45, 41-42, 6-41, 3-35, 3-38

JOINTS 1 Brace at Jt(s): 41, 42, 45, 27, 31, 29, 21, 19

REACTIONS. (lb/size) 39=1966/Mechanical, 13=1899/0-3-8 (min. 0-2-5), 22=918/0-3-8 (min. 0-2-2)
Max Horz 39=199(LC 9)
Max Grav 39=2031(LC 2), 13=1960(LC 2), 22=1824(LC 18)

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

TOP CHORD 1-39=-1963/0, 4-5=-2516/0, 5-6=-2016/0, 6-49=-2711/222, 49-50=-2711/222, 7-50=-2711/222, 7-51=-2688/217, 8-51=-2688/217, 8-9=-1247/211, 9-52=-1579/57, 10-52=-1616/48, 10-11=-2018/0, 12-13=-2204/0, 1-53=-2137/0, 2-53=-2081/0, 2-54=-2114/0, 3-54=-2026/0, 3-4=-2485/0, 11-12=-2082/0

BOT CHORD 37-38=0/2286, 36-37=0/2286, 35-36=0/2286, 34-35=0/4833, 32-34=0/5108, 30-32=0/5331, 28-30=0/4554, 26-28=0/3091, 25-26=-21/408, 22-25=-21/408, 20-22=-1952/0, 17-20=-2121/0, 16-17=-3084/0, 15-16=-2666/0, 14-15=-2666/0, 31-33=-3455/0, 29-31=-3064/0, 27-29=-2041/0, 24-27=-307/611, 23-24=0/4281, 21-23=0/4281, 19-21=0/3912, 18-19=0/4567

WEBS 1-38=0/2253, 2-38=-388/125, 5-33=-842/54, 33-45=-591/213, 6-45=-469/232, 40-41=-1363/0, 40-42=-1363/0, 42-43=-1359/0, 9-43=-892/0, 16-18=0/359, 18-44=-678/171, 10-44=-448/201, 7-41=-575/121, 6-41=-262/952, 8-41=-6/2016, 33-35=-2928/0, 12-18=0/2231, 14-18=-6/2712, 43-44=-637/0, 26-27=-1390/0, 32-33=-204/650, 31-32=-328/417, 30-31=-518/63, 29-30=-14/568, 28-29=-850/0, 27-28=0/931, 24-26=0/1801, 22-24=-2831/0, 21-22=-752/231, 19-20=-117/253, 17-19=-670/0, 17-18=-5/522, 22-23=-462/0, 5-35=0/1587, 3-47=-326/128, 35-47=-325/120, 38-46=-721/0, 3-46=-723/0

NOTES-

1) Unbalanced roof live loads have been considered for this design.

April 21,2023

Continued on page 2

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

NOTES-

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 17-7-8, Exterior(2) 17-7-8 to 21-10-7, Interior(1) 21-10-7 to 35-8-8, Exterior(2) 35-8-8 to 39-11-7, Interior(1) 39-11-7 to 47-1-4 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) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 MT20 unless otherwise indicated.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Ceiling dead load (5.0 psf) on member(s). 9-10, 10-11, 41-45, 41-42, 42-43, 9-43; Wall dead load (5.0psf) on member(s).33-45, 18-44, 10-44
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 31-33, 29-31, 27-29, 24-27, 23-24, 21-23, 19-21, 18-19
10) Refer to girder(s) for truss to truss connections.
11) 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.
12) N/A

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Attic room checked for L/360 deflection.

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-5=-60, 5-8=-60, 8-9=-60, 9-11=-70, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-60, 11-12=-60
   Drag: 33-45=-10, 10-18=-10
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-5=-50, 5-8=-50, 8-9=-50, 9-11=-60, 13-39=-20, 18-33=-90, 9-45=-10, 1-54=-50, 4-54=-80, 11-12=-50
   Drag: 33-45=-10, 10-18=-10
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 4-5=-20, 5-8=-20, 8-9=-20, 9-11=-30, 13-39=-40, 18-33=-30, 9-45=-10, 1-54=-20, 4-54=-60, 11-12=-20
   Drag: 33-45=-10, 10-18=-10
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=12, 5-49=20, 8-49=15, 8-9=17, 9-52=11, 11-52=6, 13-39=-12, 18-33=-18, 9-45=-6, 1-53=22, 4-53=12, 11-12=12
   Horz: 1-39=13, 4-5=-24, 8-52=29, 11-52=24, 12-13=24, 1-53=-34, 4-53=-24, 11-12=24
   Drag: 33-45=-10, 10-18=-10
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=17, 5-51=15, 8-51=20, 8-9=12, 9-11=6, 13-39=-12, 18-33=-18, 9-45=-6, 1-4=12, 11-12=22
   Horz: 1-39=-24, 4-5=-29, 8-11=24, 12-13=-13, 1-4=-24, 11-12=34
   Drag: 33-45=-10, 10-18=-10
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=-44, 5-8=-29, 8-9=-44, 9-11=-54, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-32, 11-12=-32
   Horz: 1-39=-15, 4-5=24, 8-11=-24, 12-13=-22, 1-4=12, 11-12=-12
   Drag: 33-45=-10, 10-18=-10
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=-44, 5-8=-29, 8-9=-44, 9-11=-54, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-32, 11-12=-32
   Horz: 1-39=22, 4-5=24, 8-11=-24, 12-13=15, 1-4=12, 11-12=-12
   Drag: 33-45=-10, 10-18=-10
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=-13, 5-8=9, 8-9=3, 9-11=-3, 13-39=-12, 18-33=-18, 9-45=-6, 1-4=9, 11-12=4
   Horz: 1-39=9, 4-5=1, 8-11=15, 12-13=14, 1-4=-21, 11-12=16
   Drag: 33-45=-10, 10-18=-10
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=3, 5-8=9, 8-9=-13, 9-11=-19, 13-39=-12, 18-33=-18, 9-45=-6, 1-4=4, 11-12=9
   Horz: 1-39=-14, 4-5=-15, 8-11=-1, 12-13=-9, 1-4=-16, 11-12=21
   Drag: 33-45=-10, 10-18=-10
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-5=-30, 5-8=-7, 8-9=-14, 9-11=-24, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-7, 11-12=-13
    Horz: 1-39=18, 4-5=10, 8-11=6, 12-13=5, 1-4=-13, 11-12=7
    Drag: 33-45=-10, 10-18=-10
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-5=-14, 5-8=-7, 8-9=-30, 9-11=-40, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-13, 11-12=-7
    Horz: 1-39=-5, 4-5=-6, 8-11=-10, 12-13=-18, 1-4=-7, 11-12=13
    Drag: 33-45=-10, 10-18=-10
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-5=9, 5-50=9, 8-50=2, 8-9=2, 9-11=-4, 13-39=-12, 18-33=-18, 9-45=-6, 1-4=9, 11-12=2
    Horz: 1-39=5, 4-5=-21, 8-11=14, 12-13=12, 1-4=-21, 11-12=14
    Drag: 33-45=-10, 10-18=-10
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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

LOAD CASE(S)

Uniform Loads (plf)
Vert: 4-5=2, 5-50=2, 8-50=9, 8-9=9, 9-11=3, 13-39=-12, 18-33=-18, 9-45=-6, 1-4=2, 11-12=9
Horz: 1-39=-12, 4-5=-14, 8-11=21, 12-13=-5, 1-4=-14, 11-12=21
Drag: 33-45=-10, 10-18=-10

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=9, 5-50=9, 8-50=2, 8-9=2, 9-11=-4, 13-39=-12, 18-33=-18, 9-45=-6, 1-4=9, 11-12=2
Horz: 1-39=5, 4-5=-21, 8-11=14, 12-13=12, 1-4=-21, 11-12=14
Drag: 33-45=-10, 10-18=-10

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=2, 5-50=2, 8-50=9, 8-9=9, 9-11=3, 13-39=-12, 18-33=-18, 9-45=-6, 1-4=2, 11-12=9
Horz: 1-39=-12, 4-5=-14, 8-11=21, 12-13=-5, 1-4=-14, 11-12=21
Drag: 33-45=-10, 10-18=-10

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-7, 5-50=-7, 8-50=-15, 8-9=-15, 9-11=-25, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-7, 11-12=-15
Horz: 1-39=14, 4-5=-13, 8-11=5, 12-13=3, 1-4=-13, 11-12=5
Drag: 33-45=-10, 10-18=-10

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-15, 5-50=-15, 8-50=-7, 8-9=-7, 9-11=-17, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-15, 11-12=-7
Horz: 1-39=-3, 4-5=-5, 8-11=13, 12-13=-14, 1-4=-5, 11-12=13
Drag: 33-45=-10, 10-18=-10

18) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-5=-20, 5-8=-20, 8-9=-20, 9-11=-30, 13-39=-20, 18-33=-110, 9-45=-10, 1-54=-20, 4-54=-60, 11-12=-20
Drag: 33-45=-10, 10-18=-10

19) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-5=-20, 5-8=-20, 8-9=-20, 9-11=-30, 13-39=-20, 18-33=-110, 9-45=-10, 1-54=-20, 4-54=-60, 11-12=-20
Drag: 33-45=-10, 10-18=-10

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-57, 5-8=-41, 8-9=-45, 9-11=-55, 13-39=-20, 18-33=-90, 9-45=-10, 1-54=-41, 4-54=-71, 11-12=-45
Horz: 1-39=14, 4-5=7, 8-11=5, 12-13=4, 1-4=-9, 11-12=5
Drag: 33-45=-10, 10-18=-10

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-45, 5-8=-41, 8-9=-57, 9-11=-67, 13-39=-20, 18-33=-90, 9-45=-10, 1-54=-45, 4-54=-75, 11-12=-41
Horz: 1-39=-4, 4-5=-5, 8-11=-7, 12-13=-14, 1-4=-5, 11-12=9
Drag: 33-45=-10, 10-18=-10

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-41, 5-50=-41, 8-50=-46, 8-9=-46, 9-11=-56, 13-39=-20, 18-33=-90, 9-45=-10, 1-54=-41, 4-54=-71, 11-12=-46
Horz: 1-39=11, 4-5=-9, 8-11=4, 12-13=2, 1-4=-9, 11-12=4
Drag: 33-45=-10, 10-18=-10

23) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-46, 5-50=-46, 8-50=-41, 8-9=-41, 9-11=-51, 13-39=-20, 18-33=-90, 9-45=-10, 1-54=-46, 4-54=-76, 11-12=-41
Horz: 1-39=-2, 4-5=-4, 8-11=9, 12-13=-11, 1-4=-4, 11-12=9
Drag: 33-45=-10, 10-18=-10

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-60, 5-8=-60, 8-9=-20, 9-11=-30, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-60, 11-12=-20
Drag: 33-45=-10, 10-18=-10

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-20, 5-8=-60, 8-9=-60, 9-11=-70, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-20, 11-12=-60
Drag: 33-45=-10, 10-18=-10

26) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-50, 5-8=-50, 8-9=-20, 9-11=-30, 13-39=-20, 18-33=-90, 9-45=-10, 1-54=-50, 4-54=-80, 11-12=-20
Drag: 33-45=-10, 10-18=-10

27) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-20, 5-8=-50, 8-9=-50, 9-11=-60, 13-39=-20, 18-33=-90, 9-45=-10, 1-54=-20, 4-54=-50, 11-12=-50
Drag: 33-45=-10, 10-18=-10

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1 111-R	AT05	HIP	1	1	I57917595
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.630 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 13:35:03 2023 Page 1

ID:JbnYVf1QbWGMYvS3eidP34zb6LG-sMqtjgwpWNa1jj?4p9wYOswjPxas3g3mPeZgmGzOU2c

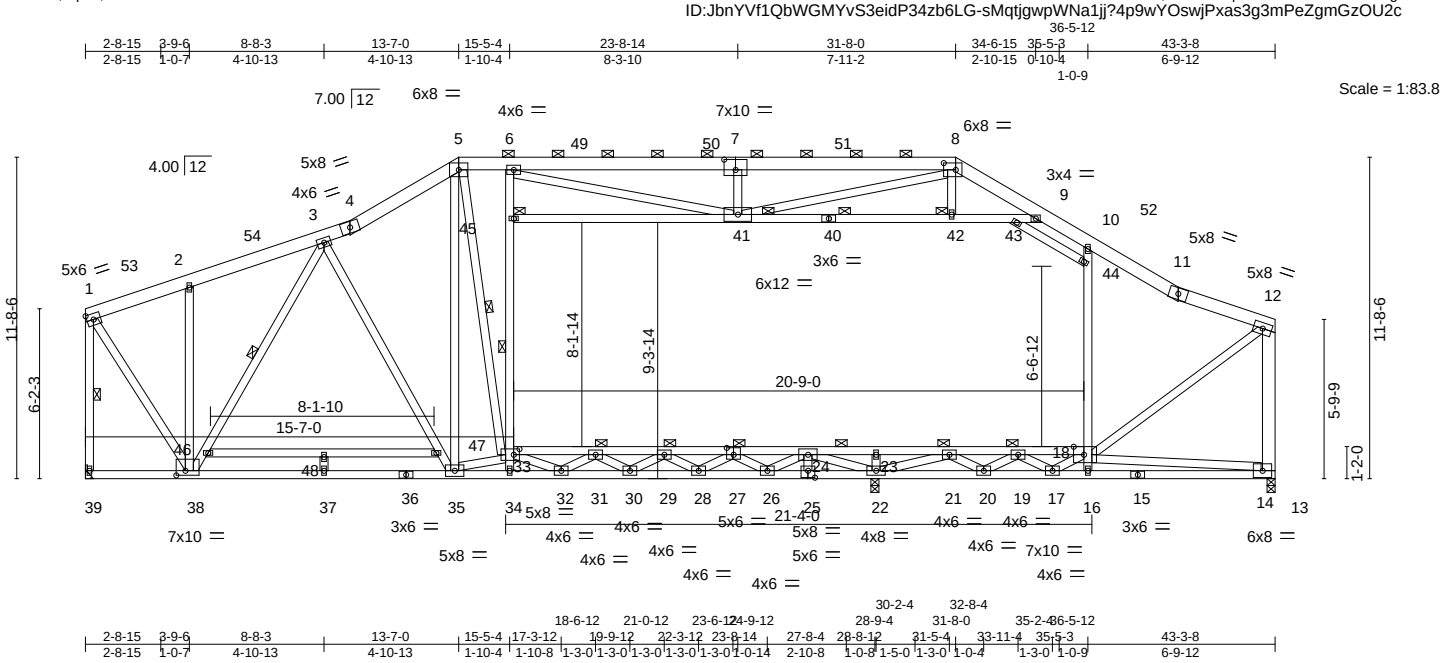

Plate Offsets (X,Y)-- [7:0-5-0,0-4-8], [8:0-5-4,0-3-0], [18:0-4-8,Edge], [25:0-3-0,0-3-0], [27:0-3-0,0-3-0], [33:0-2-8,0-2-8], [38:0-4-0,0-2-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.40	31-33	>866	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.71	31-33	>486	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.08	22	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.15	34	>999	240	Weight: 465 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
25-36: 2x4 SP No.1, 18-27: 2x4 SP SS
WEBS 2x4 SP No.3 *Except*
12-13: 2x6 SP No.2, 6-34,9-40,10-16,40-45: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-3 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-9-4 oc bracing: 20-22
4-11-14 oc bracing: 17-20
3-6-14 oc bracing: 16-17
3-11-3 oc bracing: 14-16.
3-3-0 oc bracing: 31-33
3-7-0 oc bracing: 29-31
4-2-0 oc bracing: 27-29
6-0-0 oc bracing: 21-27
10-0-0 oc bracing: 19-21, 18-19
WEBS 1 Row at midpt 1-39, 5-33, 33-45, 41-42, 3-38
JOINTS 1 Brace at Jt(s): 41, 42, 45, 27, 31, 29, 21, 19

REACTIONS. (lb/size) 39=1835/Mechanical, 13=1773/0-3-8 (min. 0-2-3), 22=852/0-3-8 (min. 0-2-1)
Max Horz 39=196(LC 9)
Max Grav 39=1954(LC 2), 13=1837(LC 2), 22=1753(LC 18)

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

TOP CHORD 1-39=-1936/0, 4-5=-2008/0, 5-6=-1736/0, 6-49=-2583/227, 49-50=-2583/227, 7-50=-2583/227, 7-51=-2561/222, 8-51=-2561/222, 8-9=-1317/205, 9-52=-1513/47, 10-52=-1545/38, 10-11=-1783/0, 12-13=-1969/0, 1-53=-1056/2, 2-53=-1004/14, 2-54=-1055/36, 3-54=-967/47, 3-4=-1994/0, 11-12=-1840/0

BOT CHORD 37-38=0/1616, 36-37=0/1616, 35-36=0/1616, 34-35=0/3289, 32-34=0/3468, 30-32=0/4159, 28-30=0/3784, 26-28=0/2718, 25-26=-50/499, 22-25=-50/499, 20-22=-1340/0, 17-20=-1376/84, 16-17=-2204/124, 15-16=-1905/134, 14-15=-1905/134, 31-33=-2308/0, 29-31=-2351/0, 27-29=-1780/0, 24-27=-349/545, 23-24=0/3607, 21-23=0/3607, 19-21=0/2981, 18-19=0/3488

WEBS 1-38=0/1811, 5-33=-150/335, 33-45=-690/218, 6-45=-568/237, 40-41=-1010/0, 40-42=-1010/0, 42-43=-1011/0, 9-43=-719/0, 16-18=0/324, 18-44=-683/171, 10-44=-517/195, 7-41=-557/122, 6-41=-251/1095, 8-41=-20/1751, 33-35=-1710/106, 12-18=0/1929, 14-18=-144/1958, 43-44=-445/1, 26-27=-1149/0, 32-33=0/853, 31-32=-534/160, 30-31=-285/77, 29-30=-28/347, 28-29=-611/0, 27-28=0/686, 24-26=0/1513, 22-24=-2550/0, 21-22=-877/58, 17-19=-569/20, 17-18=-29/455, 22-23=-453/0, 5-35=-46/715, 3-47=0/302, 35-47=0/298, 38-46=-1368/0, 3-46=-1366/0

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2) 4-2-4 to 7-2-4, Interior(1) 7-2-4 to 17-7-8, Exterior(2) 17-7-8 to 21-10-7, Interior(1) 21-10-7 to 35-8-8, Exterior(2) 35-8-8 to 39-11-7, Interior(1) 39-11-7 to 47-1-4 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

April 21,2023

Continued on page 2

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

NOTES-

3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 9-10, 10-11, 41-45, 41-42, 42-43, 9-43; Wall dead load (5.0psf) on member(s).33-45, 18-44, 10-44
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 31-33, 29-31, 27-29, 24-27, 23-24, 21-23, 19-21, 18-19
9) Refer to girder(s) for truss to truss connections.
10) 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.
11) N/A

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-5=-60, 5-8=-60, 8-9=-60, 9-11=-70, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-60, 11-12=-60
   Drag: 33-45=-10, 10-18=-10
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-5=-50, 5-8=-50, 8-9=-50, 9-11=-60, 13-39=-20, 18-33=-90, 9-45=-10, 1-54=-50, 4-54=-80, 11-12=-50
   Drag: 33-45=-10, 10-18=-10
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 4-5=-20, 5-8=-20, 8-9=-20, 9-11=-30, 13-39=-40, 18-33=-30, 9-45=-10, 1-54=-20, 4-54=-60, 11-12=-20
   Drag: 33-45=-10, 10-18=-10
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=12, 5-49=20, 8-49=15, 8-9=17, 9-52=11, 11-52=6, 13-39=-12, 18-33=-18, 9-45=-6, 1-53=22, 4-53=12, 11-12=12
   Horz: 1-39=13, 4-5=-24, 8-52=29, 11-52=24, 12-13=24, 1-53=-34, 4-53=-24, 11-12=24
   Drag: 33-45=-10, 10-18=-10
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=17, 5-51=15, 8-51=20, 8-9=12, 9-11=6, 13-39=-12, 18-33=-18, 9-45=-6, 1-4=12, 11-12=22
   Horz: 1-39=-24, 4-5=-29, 8-11=24, 12-13=-13, 1-4=-24, 11-12=34
   Drag: 33-45=-10, 10-18=-10
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=-44, 5-8=-29, 8-9=-44, 9-11=-54, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-32, 11-12=-32
   Horz: 1-39=-15, 4-5=24, 8-11=-24, 12-13=-22, 1-4=12, 11-12=-12
   Drag: 33-45=-10, 10-18=-10
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=-44, 5-8=-29, 8-9=-44, 9-11=-54, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-32, 11-12=-32
   Horz: 1-39=22, 4-5=24, 8-11=-24, 12-13=15, 1-4=12, 11-12=-12
   Drag: 33-45=-10, 10-18=-10
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=-13, 5-8=9, 8-9=3, 9-11=-3, 13-39=-12, 18-33=-18, 9-45=-6, 1-4=9, 11-12=4
   Horz: 1-39=9, 4-5=1, 8-11=15, 12-13=14, 1-4=-21, 11-12=16
   Drag: 33-45=-10, 10-18=-10
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-5=3, 5-8=9, 8-9=-13, 9-11=-19, 13-39=-12, 18-33=-18, 9-45=-6, 1-4=4, 11-12=9
   Horz: 1-39=-14, 4-5=-15, 8-11=-1, 12-13=-9, 1-4=-16, 11-12=21
   Drag: 33-45=-10, 10-18=-10
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-5=-30, 5-8=-7, 8-9=-14, 9-11=-24, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-7, 11-12=-13
    Horz: 1-39=18, 4-5=10, 8-11=6, 12-13=5, 1-4=-13, 11-12=7
    Drag: 33-45=-10, 10-18=-10
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-5=-14, 5-8=-7, 8-9=-30, 9-11=-40, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-13, 11-12=-7
    Horz: 1-39=-5, 4-5=-6, 8-11=-10, 12-13=-18, 1-4=-7, 11-12=13
    Drag: 33-45=-10, 10-18=-10
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-5=9, 5-50=9, 8-50=2, 8-9=2, 9-11=-4, 13-39=-12, 18-33=-18, 9-45=-6, 1-4=9, 11-12=2
    Horz: 1-39=5, 4-5=-21, 8-11=14, 12-13=12, 1-4=-21, 11-12=14
    Drag: 33-45=-10, 10-18=-10
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 4-5=2, 5-50=2, 8-50=9, 8-9=9, 9-11=3, 13-39=-12, 18-33=-18, 9-45=-6, 1-4=2, 11-12=9
Horz: 1-39=-12, 4-5=-14, 8-11=21, 12-13=-5, 1-4=-14, 11-12=21
Drag: 33-45=-10, 10-18=-10

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=9, 5-50=9, 8-50=2, 8-9=2, 9-11=-4, 13-39=-12, 18-33=-18, 9-45=-6, 1-4=9, 11-12=2
Horz: 1-39=5, 4-5=-21, 8-11=14, 12-13=12, 1-4=-21, 11-12=14
Drag: 33-45=-10, 10-18=-10

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=2, 5-50=2, 8-50=9, 8-9=9, 9-11=3, 13-39=-12, 18-33=-18, 9-45=-6, 1-4=2, 11-12=9
Horz: 1-39=-12, 4-5=-14, 8-11=21, 12-13=-5, 1-4=-14, 11-12=21
Drag: 33-45=-10, 10-18=-10

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-7, 5-50=-7, 8-50=-15, 8-9=-15, 9-11=-25, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-7, 11-12=-15
Horz: 1-39=14, 4-5=-13, 8-11=5, 12-13=3, 1-4=-13, 11-12=5
Drag: 33-45=-10, 10-18=-10

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-15, 5-50=-15, 8-50=-7, 8-9=-7, 9-11=-17, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-15, 11-12=-7
Horz: 1-39=-3, 4-5=-5, 8-11=13, 12-13=-14, 1-4=-5, 11-12=13
Drag: 33-45=-10, 10-18=-10

18) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-5=-20, 5-8=-20, 8-9=-20, 9-11=-30, 13-39=-20, 18-33=-110, 9-45=-10, 1-54=-20, 4-54=-60, 11-12=-20
Drag: 33-45=-10, 10-18=-10

19) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-5=-20, 5-8=-20, 8-9=-20, 9-11=-30, 13-39=-20, 18-33=-110, 9-45=-10, 1-54=-20, 4-54=-60, 11-12=-20
Drag: 33-45=-10, 10-18=-10

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-57, 5-8=-41, 8-9=-45, 9-11=-55, 13-39=-20, 18-33=-90, 9-45=-10, 1-54=-41, 4-54=-71, 11-12=-45
Horz: 1-39=14, 4-5=7, 8-11=5, 12-13=4, 1-4=-9, 11-12=5
Drag: 33-45=-10, 10-18=-10

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-45, 5-8=-41, 8-9=-57, 9-11=-67, 13-39=-20, 18-33=-90, 9-45=-10, 1-54=-45, 4-54=-75, 11-12=-41
Horz: 1-39=-4, 4-5=-5, 8-11=-7, 12-13=-14, 1-4=-5, 11-12=9
Drag: 33-45=-10, 10-18=-10

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-41, 5-50=-41, 8-50=-46, 8-9=-46, 9-11=-56, 13-39=-20, 18-33=-90, 9-45=-10, 1-54=-41, 4-54=-71, 11-12=-46
Horz: 1-39=11, 4-5=-9, 8-11=4, 12-13=2, 1-4=-9, 11-12=4
Drag: 33-45=-10, 10-18=-10

23) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 4-5=-46, 5-50=-46, 8-50=-41, 8-9=-41, 9-11=-51, 13-39=-20, 18-33=-90, 9-45=-10, 1-54=-46, 4-54=-76, 11-12=-41
Horz: 1-39=-2, 4-5=-4, 8-11=9, 12-13=-11, 1-4=-4, 11-12=9
Drag: 33-45=-10, 10-18=-10

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-60, 5-8=-60, 8-9=-20, 9-11=-30, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-60, 11-12=-20
Drag: 33-45=-10, 10-18=-10

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-20, 5-8=-60, 8-9=-60, 9-11=-70, 13-39=-20, 18-33=-30, 9-45=-10, 1-4=-20, 11-12=-60
Drag: 33-45=-10, 10-18=-10

26) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-50, 5-8=-50, 8-9=-20, 9-11=-30, 13-39=-20, 18-33=-90, 9-45=-10, 1-54=-50, 4-54=-80, 11-12=-20
Drag: 33-45=-10, 10-18=-10

27) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-20, 5-8=-50, 8-9=-50, 9-11=-60, 13-39=-20, 18-33=-90, 9-45=-10, 1-54=-20, 4-54=-50, 11-12=-50
Drag: 33-45=-10, 10-18=-10

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1 111-R	AT06	HIP	1	1	I57917596
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.630 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 13:35:15 2023 Page 1

ID:JbnYVf1QbWGMYvS3eidP34zb6LG-WgYPEn4Lh34K9ZwOWg7MtOQqYngnt9fXAWTJBZzOU2Q

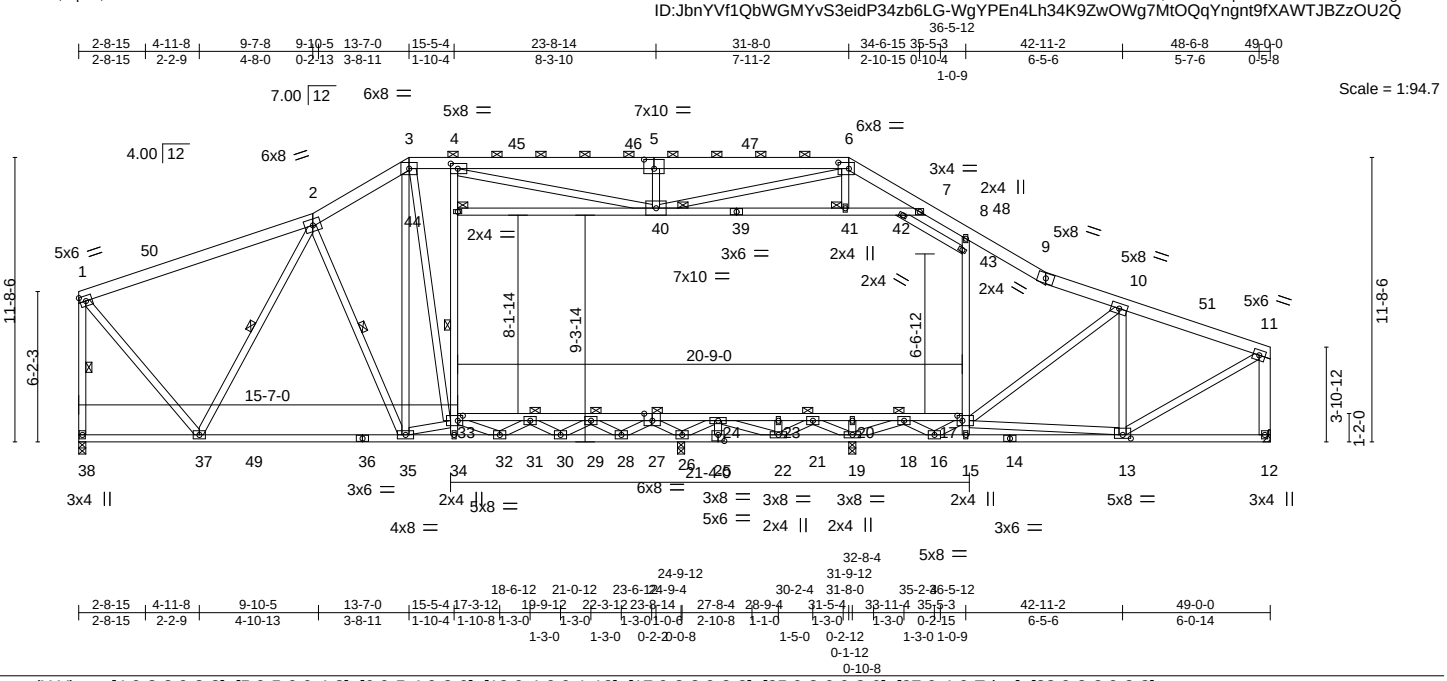

Plate Offsets (X,Y)-- [4:0-3-8,0-2-8], [5:0-5-0,0-4-8], [6:0-5-4,0-3-0], [13:0-4-0,0-1-12], [17:0-2-8,0-2-8], [25:0-3-0,0-3-0], [27:0-4-0,Edge], [33:0-2-8,0-2-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.22	35-37	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.40	35-37	>743	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.06	34	>999	240	Weight: 479 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
25-36,17-27: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
11-12: 2x6 SP No.2, 4-34,7-39,8-15,39-44: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-4 oc purlins, except end verticals, and 2-0-0 oc purlins (4-0-6 max.): 3-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 26-28,25-26,22-25
5-8-9 oc bracing: 19-22.
WEBS 1 Row at midpt 1-38, 33-44, 2-37, 2-35
JOINTS 1 Brace at Jt(s): 40, 41, 44, 27, 31, 29, 21, 18

REACTIONS. All bearings 0-3-8 except (jt=length) 12=Mechanical.
(lb) - Max Horz 38=-156(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 38=1815(LC 2), 12=1545(LC 1), 26=1552(LC 18), 19=1202(LC 27)

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

TOP CHORD 1-38=-1799/0, 2-3=-1892/52, 3-4=-1614/60, 4-45=-2522/272, 45-46=-2522/272, 5-46=-2522/272, 5-47=-2502/267, 6-47=-2502/267, 6-7=-1426/195, 7-48=-1733/54, 8-48=-1770/41, 8-9=-1780/0, 11-12=-1496/0, 1-50=-1142/21, 2-50=-1086/45, 9-10=-1818/0, 10-51=-1528/0, 11-51=-1605/0

BOT CHORD 37-49=0/1553, 36-49=0/1553, 35-36=0/1553, 34-35=0/2384, 32-34=0/2468, 30-32=0/2357, 28-30=0/1314, 26-28=-543/14, 25-26=-939/0, 22-25=-939/0, 19-22=-1000/152, 16-19=0/719, 15-16=0/2045, 14-15=0/2010, 13-14=0/2010, 31-33=-966/0, 29-31=-504/84, 27-29=0/1174, 24-27=0/3316, 23-24=0/2120, 21-23=0/2120, 20-21=0/2565, 18-20=0/2565, 17-18=-30/541

WEBS 3-33=-45/528, 33-44=-837/178, 4-44=-724/197, 39-40=-693/0, 39-41=-693/0, 41-42=-698/0, 7-42=-665/0, 17-43=-576/156, 8-43=-514/167, 10-13=-738/40, 11-13=0/1760, 5-40=-505/128, 4-40=-222/1124, 6-40=-74/1427, 33-35=-979/24, 10-17=-57/277, 13-17=-633/115, 26-27=-1545/0, 32-33=-273/341, 31-32=-72/400, 30-31=-655/0, 29-30=0/716, 28-29=-1053/0, 27-28=0/1096, 24-26=-1021/0, 22-24=-108/806, 21-22=-54/383, 18-19=-1662/0, 16-18=-71/1129, 16-17=-1031/67, 3-35=-34/680, 2-37=-1137/34, 1-37=0/1594, 19-20=-321/0, 19-21=-312/121

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2) 4-2-4 to 7-2-4, Interior(1) 7-2-4 to 17-7-8, Exterior(2) 17-7-8 to 21-10-7, Interior(1) 21-10-7 to 35-8-8, Exterior(2) 35-8-8 to 39-11-7, Interior(1) 39-11-7 to 52-9-12 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) All plates are 4x6 MT20 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

April 21,2023

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

NOTES-

7) Ceiling dead load (5.0 psf) on member(s). 7-8, 8-9, 40-44, 40-41, 41-42, 7-42; Wall dead load (5.0psf) on member(s).33-44, 17-43, 8-43
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 31-33, 29-31, 27-29, 24-27, 23-24, 21-23, 20-21, 18-20, 17-18
9) Refer to girder(s) for truss to truss connections.
10) 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.
11) N/A

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-3=-60, 3-6=-60, 6-7=-60, 7-9=-70, 12-38=-20, 17-33=-30, 7-44=-10, 1-2=-60, 9-11=-60
   Drag: 33-44=-10, 8-17=-10
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-3=-50, 3-6=-50, 6-7=-50, 7-9=-60, 38-49=-20, 36-49=-50, 12-36=-20, 17-33=-90, 7-44=-10, 1-2=-50, 9-11=-50
   Drag: 33-44=-10, 8-17=-10
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 2-3=-20, 3-6=-20, 6-7=-20, 7-9=-30, 12-38=-40, 17-33=-30, 7-44=-10, 1-2=-20, 9-11=-20
   Drag: 33-44=-10, 8-17=-10
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=12, 3-45=20, 6-45=15, 6-7=17, 7-48=11, 9-48=6, 12-38=-12, 17-33=-18, 7-44=-6, 1-50=22, 2-50=12, 9-11=12
   Horz: 1-38=13, 2-3=-24, 6-48=29, 9-48=24, 11-12=24, 1-50=-34, 2-50=-24, 9-11=24
   Drag: 33-44=-10, 8-17=-10
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=17, 3-47=15, 6-47=20, 6-7=12, 7-9=6, 12-38=-12, 17-33=-18, 7-44=-6, 1-2=12, 9-51=12, 11-51=22
   Horz: 1-38=-24, 2-3=-29, 6-9=24, 11-12=-13, 1-2=-24, 9-51=24, 11-51=34
   Drag: 33-44=-10, 8-17=-10
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=-44, 3-6=-29, 6-7=-44, 7-9=-54, 12-38=-20, 17-33=-30, 7-44=-10, 1-2=-32, 9-11=-32
   Horz: 1-38=-15, 2-3=24, 6-9=-24, 11-12=-22, 1-2=12, 9-11=-12
   Drag: 33-44=-10, 8-17=-10
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=-44, 3-6=-29, 6-7=-44, 7-9=-54, 12-38=-20, 17-33=-30, 7-44=-10, 1-2=-32, 9-11=-32
   Horz: 1-38=22, 2-3=24, 6-9=-24, 11-12=15, 1-2=12, 9-11=-12
   Drag: 33-44=-10, 8-17=-10
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=-13, 3-6=9, 6-7=3, 7-9=-3, 12-38=-12, 17-33=-18, 7-44=-6, 1-2=9, 9-11=4
   Horz: 1-38=9, 2-3=1, 6-9=15, 11-12=14, 1-2=-21, 9-11=16
   Drag: 33-44=-10, 8-17=-10
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=3, 3-6=9, 6-7=-13, 7-9=-19, 12-38=-12, 17-33=-18, 7-44=-6, 1-2=4, 9-11=9
   Horz: 1-38=-14, 2-3=-15, 6-9=-1, 11-12=-9, 1-2=-16, 9-11=21
   Drag: 33-44=-10, 8-17=-10
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 2-3=-30, 3-6=-7, 6-7=-14, 7-9=-24, 12-38=-20, 17-33=-30, 7-44=-10, 1-2=-7, 9-11=-13
    Horz: 1-38=18, 2-3=10, 6-9=6, 11-12=5, 1-2=-13, 9-11=7
    Drag: 33-44=-10, 8-17=-10
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 2-3=-14, 3-6=-7, 6-7=-30, 7-9=-40, 12-38=-20, 17-33=-30, 7-44=-10, 1-2=-13, 9-11=-7
    Horz: 1-38=-5, 2-3=-6, 6-9=-10, 11-12=-18, 1-2=-7, 9-11=13
    Drag: 33-44=-10, 8-17=-10
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 2-3=9, 3-46=9, 6-46=2, 6-7=2, 7-9=-4, 12-38=-12, 17-33=-18, 7-44=-6, 1-2=9, 9-11=2
    Horz: 1-38=5, 2-3=-21, 6-9=14, 11-12=12, 1-2=-21, 9-11=14
    Drag: 33-44=-10, 8-17=-10
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 2-3=2, 3-46=2, 6-46=9, 6-7=9, 7-9=3, 12-38=-12, 17-33=-18, 7-44=-6, 1-2=2, 9-11=9
    Horz: 1-38=-12, 2-3=-14, 6-9=21, 11-12=-5, 1-2=-14, 9-11=21
    Drag: 33-44=-10, 8-17=-10
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

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LOAD CASE(S)

Uniform Loads (plf)
Vert: 2-3=9, 3-46=9, 6-46=2, 6-7=2, 7-9=-4, 12-38=-12, 17-33=-18, 7-44=-6, 1-2=9, 9-11=2
Horz: 1-38=5, 2-3=-21, 6-9=14, 11-12=12, 1-2=-21, 9-11=14
Drag: 33-44=-10, 8-17=-10

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=2, 3-46=2, 6-46=9, 6-7=9, 7-9=3, 12-38=-12, 17-33=-18, 7-44=-6, 1-2=2, 9-11=9
Horz: 1-38=-12, 2-3=-14, 6-9=21, 11-12=-5, 1-2=-14, 9-11=21
Drag: 33-44=-10, 8-17=-10

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-7, 3-46=-7, 6-46=-15, 6-7=-15, 7-9=-25, 12-38=-20, 17-33=-30, 7-44=-10, 1-2=-7, 9-11=-15
Horz: 1-38=14, 2-3=-13, 6-9=5, 11-12=3, 1-2=-13, 9-11=5
Drag: 33-44=-10, 8-17=-10

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-15, 3-46=-15, 6-46=-7, 6-7=-7, 7-9=-17, 12-38=-20, 17-33=-30, 7-44=-10, 1-2=-15, 9-11=-7
Horz: 1-38=-3, 2-3=-5, 6-9=13, 11-12=-14, 1-2=-5, 9-11=13
Drag: 33-44=-10, 8-17=-10

18) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 2-3=-20, 3-6=-20, 6-7=-20, 7-9=-30, 38-49=-20, 36-49=-60, 12-36=-20, 17-33=-110, 7-44=-10, 1-2=-20, 9-11=-20
Drag: 33-44=-10, 8-17=-10

19) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 2-3=-20, 3-6=-20, 6-7=-20, 7-9=-30, 38-49=-20, 36-49=-60, 12-36=-20, 17-33=-110, 7-44=-10, 1-2=-20, 9-11=-20
Drag: 33-44=-10, 8-17=-10

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-57, 3-6=-41, 6-7=-45, 7-9=-55, 38-49=-20, 36-49=-50, 12-36=-20, 17-33=-90, 7-44=-10, 1-2=-41, 9-11=-45
Horz: 1-38=14, 2-3=7, 6-9=5, 11-12=4, 1-2=-9, 9-11=5
Drag: 33-44=-10, 8-17=-10

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-45, 3-6=-41, 6-7=-57, 7-9=-67, 38-49=-20, 36-49=-50, 12-36=-20, 17-33=-90, 7-44=-10, 1-2=-45, 9-11=-41
Horz: 1-38=-4, 2-3=-5, 6-9=-7, 11-12=-14, 1-2=-5, 9-11=9
Drag: 33-44=-10, 8-17=-10

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-41, 3-46=-41, 6-46=-46, 6-7=-46, 7-9=-56, 38-49=-20, 36-49=-50, 12-36=-20, 17-33=-90, 7-44=-10, 1-2=-41, 9-11=-46
Horz: 1-38=11, 2-3=-9, 6-9=4, 11-12=2, 1-2=-9, 9-11=4
Drag: 33-44=-10, 8-17=-10

23) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-46, 3-46=-46, 6-46=-41, 6-7=-41, 7-9=-51, 38-49=-20, 36-49=-50, 12-36=-20, 17-33=-90, 7-44=-10, 1-2=-46, 9-11=-41
Horz: 1-38=-2, 2-3=-4, 6-9=9, 11-12=-11, 1-2=-4, 9-11=9
Drag: 33-44=-10, 8-17=-10

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 3-6=-60, 6-7=-20, 7-9=-30, 12-38=-20, 17-33=-30, 7-44=-10, 1-2=-60, 9-11=-20
Drag: 33-44=-10, 8-17=-10

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-20, 3-6=-60, 6-7=-60, 7-9=-70, 12-38=-20, 17-33=-30, 7-44=-10, 1-2=-20, 9-11=-60
Drag: 33-44=-10, 8-17=-10

26) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-50, 3-6=-50, 6-7=-20, 7-9=-30, 38-49=-20, 36-49=-50, 12-36=-20, 17-33=-90, 7-44=-10, 1-2=-50, 9-11=-20
Drag: 33-44=-10, 8-17=-10

27) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-20, 3-6=-50, 6-7=-50, 7-9=-60, 38-49=-20, 36-49=-50, 12-36=-20, 17-33=-90, 7-44=-10, 1-2=-20, 9-11=-50
Drag: 33-44=-10, 8-17=-10

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1 111-R	AT07	HIP	5	1	I57917597
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 8.630 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 13:35:40 2023 Page 1
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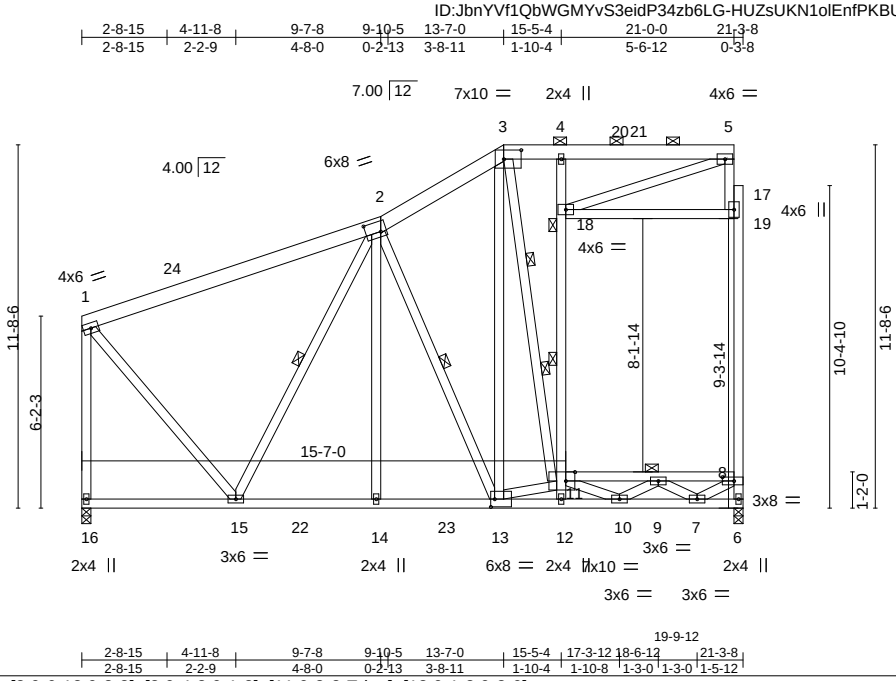

Scale = 1:74.2

Plate Offsets (X,Y)-- [2:0-5-12,0-4-0], [3:0-6-12,0-3-8], [8:0-4-8,0-1-8], [11:0-3-8,Edge], [13:0-1-8,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.18	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.37	12-13	>676	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.10	12-13	>999	240	Weight: 245 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
6-17: 2x4 SP No.1, 4-12,18-19,5-19: 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 (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 6-7.
WEBS 1 Row at midpt 11-18, 2-15, 2-13
2 Rows at 1/3 pts 3-11
JOINTS 1 Brace at Jt(s): 18, 9

REACTIONS. (lb/size) 16=898/0-3-8 (min. 0-1-8), 6=1477/0-3-8 (min. 0-2-6)
Max Horz 16=271(LC 9)
Max Grav 16=924(LC 23), 6=2001(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-881/0, 2-3=-660/103, 4-20=-301/121, 20-21=-301/121, 5-21=-301/121, 6-8=-1962/11, 8-19=-1012/87, 17-19=-946/81, 5-17=-985/97, 1-24=-522/52, 2-24=-463/76
BOT CHORD 9-11=-2829/0, 8-9=-894/32, 15-16=-300/225, 15-22=-170/646, 14-22=-170/646, 14-23=-171/643, 13-23=-171/643, 12-13=-219/3547, 10-12=-239/3799, 7-10=0/2085, 6-7=-294/114
WEBS 3-11=-1733/166, 18-19=-255/150, 11-13=-3323/97, 10-11=-1022/233, 9-10=-147/1015, 7-9=-1390/28, 3-13=-97/1703, 2-15=-464/0, 1-15=0/684, 2-13=-386/110, 7-8=-3/1460, 5-18=-140/366

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2) 4-2-4 to 7-2-4, Interior(1) 7-2-4 to 17-7-8, Exterior(2) 17-7-8 to 21-10-7, Interior(1) 21-10-7 to 24-10-12 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Ceiling dead load (5.0 psf) on member(s). 18-19; Wall dead load (5.0psf) on member(s).11-18
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 9-11, 8-9
8) 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.
9) N/A
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 726 lb down and 51 lb up at 24-10-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
12) Attic room checked for L/360 deflection.

April 21,2023

Continued on page 2

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

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-3=-60, 3-5=-60, 8-11=-30, 18-19=-10, 6-16=-20, 1-2=-60
   Drag: 11-18=-10
   Concentrated Loads (lb)
   Vert: 5=-404
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-3=-50, 3-5=-50, 8-11=-90, 18-19=-10, 16-22=-20, 22-23=-50, 6-23=-20, 1-2=-50
   Drag: 11-18=-10
   Concentrated Loads (lb)
   Vert: 5=-656
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 2-3=-20, 3-5=-20, 8-11=-30, 18-19=-10, 6-16=-40, 1-2=-20
   Drag: 11-18=-10
   Concentrated Loads (lb)
   Vert: 5=-303
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=12, 3-21=20, 5-21=15, 17-19=18, 8-11=-18, 18-19=-6, 6-16=-12, 1-24=22, 2-24=12
   Horz: 1-16=15, 2-3=-24, 5-6=-18, 1-24=-34, 2-24=-24
   Drag: 11-18=-10
   Concentrated Loads (lb)
   Vert: 5=51
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=17, 3-5=15, 17-19=-24, 8-11=-18, 18-19=-6, 6-16=-12, 1-2=12
   Horz: 1-16=-26, 2-3=-29, 5-6=24, 1-2=-24
   Drag: 11-18=-10
   Concentrated Loads (lb)
   Vert: 5=26
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=-44, 3-5=-29, 17-19=-15, 8-11=-30, 18-19=-10, 6-16=-20, 1-2=-32
   Horz: 1-16=-18, 2-3=24, 5-6=15, 1-2=12
   Drag: 11-18=-10
   Concentrated Loads (lb)
   Vert: 5=-324
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=-44, 3-5=-29, 17-19=26, 8-11=-30, 18-19=-10, 6-16=-20, 1-2=-32
   Horz: 1-16=24, 2-3=24, 5-6=-26, 1-2=12
   Drag: 11-18=-10
   Concentrated Loads (lb)
   Vert: 5=-324
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=-13, 3-5=9, 17-19=-14, 8-11=-18, 18-19=-6, 6-16=-12, 1-2=9
   Horz: 1-16=9, 2-3=1, 5-6=14, 1-2=-21
   Drag: 11-18=-10
   Concentrated Loads (lb)
   Vert: 5=-13
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=3, 3-5=9, 17-19=9, 8-11=-18, 18-19=-6, 6-16=-12, 1-2=4
   Horz: 1-16=-14, 2-3=-15, 5-6=-9, 1-2=-16
   Drag: 11-18=-10
   Concentrated Loads (lb)
   Vert: 5=-13
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 2-3=-30, 3-5=-7, 17-19=-5, 8-11=-30, 18-19=-10, 6-16=-20, 1-2=-7
    Horz: 1-16=18, 2-3=10, 5-6=5, 1-2=-13
    Drag: 11-18=-10
    Concentrated Loads (lb)
    Vert: 5=-294
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 2-3=-14, 3-5=-7, 17-19=18, 8-11=-30, 18-19=-10, 6-16=-20, 1-2=-13
    Horz: 1-16=-5, 2-3=-6, 5-6=-18, 1-2=-7
    Drag: 11-18=-10
    Concentrated Loads (lb)
    Vert: 5=-224
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 2-3=9, 3-20=9, 5-20=2, 17-19=-12, 8-11=-18, 18-19=-6, 6-16=-12, 1-2=9
Horz: 1-16=5, 2-3=-21, 5-6=12, 1-2=-21
Drag: 11-18=-10
Concentrated Loads (lb)
Vert: 5=-13

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=2, 3-20=2, 5-20=9, 17-19=5, 8-11=-18, 18-19=-6, 6-16=-12, 1-2=2
Horz: 1-16=-12, 2-3=-14, 5-6=-5, 1-2=-14
Drag: 11-18=-10
Concentrated Loads (lb)
Vert: 5=-13

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=9, 3-20=9, 5-20=2, 17-19=-12, 8-11=-18, 18-19=-6, 6-16=-12, 1-2=9
Horz: 1-16=5, 2-3=-21, 5-6=12, 1-2=-21
Drag: 11-18=-10
Concentrated Loads (lb)
Vert: 5=-13

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=2, 3-20=2, 5-20=9, 17-19=5, 8-11=-18, 18-19=-6, 6-16=-12, 1-2=2
Horz: 1-16=-12, 2-3=-14, 5-6=-5, 1-2=-14
Drag: 11-18=-10
Concentrated Loads (lb)
Vert: 5=-13

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-7, 3-20=-7, 5-20=-15, 17-19=-3, 8-11=-30, 18-19=-10, 6-16=-20, 1-2=-7
Horz: 1-16=14, 2-3=-13, 5-6=3, 1-2=-13
Drag: 11-18=-10
Concentrated Loads (lb)
Vert: 5=-274

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-15, 3-20=-15, 5-20=-7, 17-19=14, 8-11=-30, 18-19=-10, 6-16=-20, 1-2=-15
Horz: 1-16=-3, 2-3=-5, 5-6=-14, 1-2=-5
Drag: 11-18=-10
Concentrated Loads (lb)
Vert: 5=-224

18) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 2-3=-20, 3-5=-20, 8-11=-110, 18-19=-10, 16-22=-20, 22-23=-60, 6-23=-20, 1-2=-20
Drag: 11-18=-10
Concentrated Loads (lb)
Vert: 5=-606

19) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 2-3=-20, 3-5=-20, 8-11=-110, 18-19=-10, 16-22=-20, 22-23=-60, 6-23=-20, 1-2=-20
Drag: 11-18=-10
Concentrated Loads (lb)
Vert: 5=-606

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-57, 3-5=-41, 17-19=-4, 8-11=-90, 18-19=-10, 16-22=-20, 22-23=-50, 6-23=-20, 1-2=-41
Horz: 1-16=14, 2-3=7, 5-6=4, 1-2=-9
Drag: 11-18=-10
Concentrated Loads (lb)
Vert: 5=-726

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-45, 3-5=-41, 17-19=14, 8-11=-90, 18-19=-10, 16-22=-20, 22-23=-50, 6-23=-20, 1-2=-45
Horz: 1-16=-4, 2-3=-5, 5-6=-14, 1-2=-5
Drag: 11-18=-10
Concentrated Loads (lb)
Vert: 5=-673

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-41, 3-20=-41, 5-20=-46, 17-19=-2, 8-11=-90, 18-19=-10, 16-22=-20, 22-23=-50, 6-23=-20, 1-2=-41
Horz: 1-16=11, 2-3=-9, 5-6=2, 1-2=-9
Drag: 11-18=-10
Concentrated Loads (lb)
Vert: 5=-711

Continued on page 4

LOAD CASE(S)

23) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-46, 3-20=-46, 5-20=-41, 17-19=11, 8-11=-90, 18-19=-10, 16-22=-20, 22-23=-50, 6-23=-20, 1-2=-46
Horz: 1-16=-2, 2-3=-4, 5-6=-11, 1-2=-4
Drag: 11-18=-10
Concentrated Loads (lb)
Vert: 5=-673

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 3-5=-60, 8-11=-30, 18-19=-10, 6-16=-20, 1-2=-60
Drag: 11-18=-10
Concentrated Loads (lb)
Vert: 5=-404

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-20, 3-5=-60, 8-11=-30, 18-19=-10, 6-16=-20, 1-2=-20
Drag: 11-18=-10
Concentrated Loads (lb)
Vert: 5=-404

26) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-50, 3-5=-50, 8-11=-90, 18-19=-10, 16-22=-20, 22-23=-50, 6-23=-20, 1-2=-50
Drag: 11-18=-10
Concentrated Loads (lb)
Vert: 5=-656

27) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-20, 3-5=-50, 8-11=-90, 18-19=-10, 16-22=-20, 22-23=-50, 6-23=-20, 1-2=-20
Drag: 11-18=-10
Concentrated Loads (lb)
Vert: 5=-656

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1 111-R	AT08	HIP	4	1	I57917598
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.630 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 13:36:02 2023 Page 1
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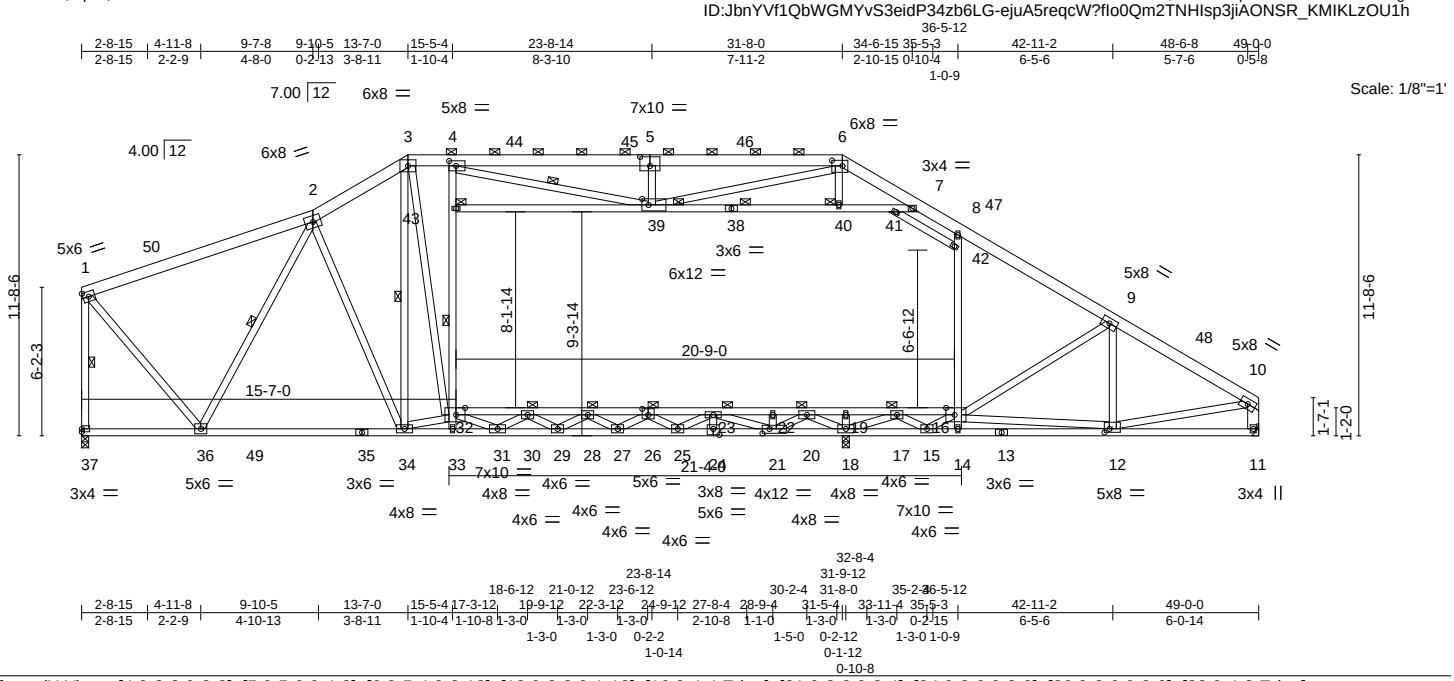

Plate Offsets (X,Y)-- [4:0-3-8,0-2-8], [5:0-5-0,0-4-8], [6:0-5-4,0-2-12], [12:0-2-8,0-1-12], [16:0-4-4,Edge], [21:0-3-8,0-2-4], [24:0-3-0,0-3-0], [26:0-3-0,0-3-0], [32:0-4-8,Edge], [39:0-3-4,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.35	28-30	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.61	28-30	>626	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.10	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.08	33	>999	240	Weight: 473 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
26-32,11-13: 2x4 SP No.2, 16-26: 2x4 SP SS
WEBS 2x4 SP No.3 *Except*
10-11: 2x6 SP No.2, 4-33,7-38,8-14,12-16,38-43: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-1 max.): 3-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 18-21
5-4-3 oc bracing: 15-18
5-0-6 oc bracing: 14-15
5-5-15 oc bracing: 12-14.
3-6-0 oc bracing: 26-28
4-0-0 oc bracing: 28-30
4-7-0 oc bracing: 20-26
6-0-0 oc bracing: 30-32
10-0-0 oc bracing: 17-20, 16-17
WEBS 1 Row at midpt 1-37, 32-43, 39-40, 4-39, 3-34, 2-36
JOINTS 1 Brace at Jt(s): 39, 40, 43, 26, 30, 28, 20, 17

REACTIONS. (lb/size) 37=2011/0-3-8 (min. 0-2-11), 11=1719/Mechanical, 18=1153/0-3-8 (min. 0-2-1)
Max Horz 37=184(LC 9)
Max Grav 37=2293(LC 26), 11=1832(LC 2), 18=1761(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-37=-2276/0, 2-3=-2546/0, 3-4=-2359/0, 4-44=-2777/178, 44-45=-2777/178, 5-45=-2777/178, 5-46=-2756/173, 6-46=-2756/173, 6-7=-1485/201, 7-47=-2214/0, 8-47=-2256/0, 8-9=-2757/0, 9-48=-2320/0, 10-48=-2452/0, 10-11=-1769/0, 1-50=-1468/0, 2-50=-1412/0
BOT CHORD 36-49=0/2057, 35-49=0/2057, 34-35=0/2057, 33-34=0/1802, 31-33=-2/1846, 29-31=0/3606, 27-29=0/4293, 25-27=0/4375, 24-25=0/3264, 21-24=0/3264, 18-21=-747/225, 15-18=-1290/0, 14-15=-1312/1102, 13-14=-1088/1143, 12-13=-1088/1143, 30-32=-534/0, 28-30=-1897/0, 26-28=-2372/0, 23-26=-1964/199, 22-23=-143/1570, 20-22=-143/1570, 19-20=0/4149, 17-19=0/4149, 16-17=0/3509
WEBS 3-32=0/1261, 32-43=-759/242, 4-43=-637/261, 38-39=-1527/0, 38-40=-1527/0, 40-41=-1529/0, 7-41=-1287/0, 14-16=0/290, 16-42=-250/489, 8-42=-146/639, 9-12=-660/0, 10-12=0/1974, 5-39=-526/117, 4-39=-299/993, 6-39=0/1904, 32-34=-32/927, 9-16=-142/507, 12-16=0/2777, 41-42=-309/0, 25-26=-555/0, 31-32=0/1649, 30-31=-1167/0, 29-30=0/573, 28-29=-503/29, 23-25=0/831, 21-23=-1690/0, 20-21=0/1912, 17-18=-1302/160, 15-17=-183/881, 15-16=-865/133, 21-22=-361/0, 2-36=-1560/0, 1-36=0/2079, 2-34=0/344, 18-19=-387/0, 18-20=-1997/0

NOTES-
1) Unbalanced roof live loads have been considered for this design.

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

NOTES-

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2) 4-2-4 to 7-2-4, Interior(1) 7-2-4 to 17-7-8, Exterior(2) 17-7-8 to 21-10-7, Interior(1) 21-10-7 to 35-8-8, Exterior(2) 35-8-8 to 39-11-7, Interior(1) 39-11-7 to 52-9-12 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) All plates are 2x4 MT20 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Ceiling dead load (5.0 psf) on member(s). 7-8, 39-43, 39-40, 40-41, 7-41; Wall dead load (5.0psf) on member(s).32-43, 16-42, 8-42
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 30-32, 28-30, 26-28, 23-26, 22-23, 20-22, 19-20, 17-19, 16-17
9) Refer to girder(s) for truss to truss connections.
10) 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.
11) N/A

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-3=-60, 3-6=-60, 6-7=-60, 7-8=-70, 8-10=-60, 11-37=-20, 16-32=-30, 7-43=-10, 1-2=-60
   Drag: 32-43=-10, 8-16=-10
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-3=-50, 3-6=-50, 6-7=-50, 7-8=-60, 8-10=-50, 37-49=-20, 35-49=-50, 11-35=-20, 16-32=-90, 7-43=-10, 1-2=-50
   Drag: 32-43=-10, 8-16=-10
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 2-3=-20, 3-6=-20, 6-7=-20, 7-8=-30, 8-10=-20, 11-37=-40, 16-32=-30, 7-43=-10, 1-2=-20
   Drag: 32-43=-10, 8-16=-10
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=12, 3-44=20, 6-44=15, 6-7=17, 7-47=11, 8-47=6, 8-10=12, 11-37=-12, 16-32=-18, 7-43=-6, 1-50=22, 2-50=12
   Horz: 1-37=13, 2-3=-24, 6-47=29, 10-47=24, 10-11=24, 1-50=-34, 2-50=-24
   Drag: 32-43=-10, 8-16=-10
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=17, 3-46=15, 6-46=20, 6-7=12, 7-8=6, 8-48=12, 10-48=17, 11-37=-12, 16-32=-18, 7-43=-6, 1-2=12
   Horz: 1-37=-24, 2-3=-29, 6-48=24, 10-48=29, 10-11=-13, 1-2=-24
   Drag: 32-43=-10, 8-16=-10
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=-44, 3-6=-29, 6-7=-44, 7-8=-54, 8-10=-44, 11-37=-20, 16-32=-30, 7-43=-10, 1-2=-32
   Horz: 1-37=-15, 2-3=24, 6-10=-24, 10-11=-22, 1-2=12
   Drag: 32-43=-10, 8-16=-10
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=-44, 3-6=-29, 6-7=-44, 7-8=-54, 8-10=-44, 11-37=-20, 16-32=-30, 7-43=-10, 1-2=-32
   Horz: 1-37=22, 2-3=24, 6-10=-24, 10-11=15, 1-2=12
   Drag: 32-43=-10, 8-16=-10
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=-13, 3-6=9, 6-7=3, 7-8=-3, 8-10=3, 11-37=-12, 16-32=-18, 7-43=-6, 1-2=9
   Horz: 1-37=9, 2-3=1, 6-10=15, 10-11=14, 1-2=-21
   Drag: 32-43=-10, 8-16=-10
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 2-3=3, 3-6=9, 6-7=-13, 7-8=-19, 8-10=-13, 11-37=-12, 16-32=-18, 7-43=-6, 1-2=4
   Horz: 1-37=-14, 2-3=-15, 6-10=-1, 10-11=-9, 1-2=-16
   Drag: 32-43=-10, 8-16=-10
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 2-3=-30, 3-6=-7, 6-7=-14, 7-8=-24, 8-10=-14, 11-37=-20, 16-32=-30, 7-43=-10, 1-2=-7
    Horz: 1-37=18, 2-3=10, 6-10=6, 10-11=5, 1-2=-13
    Drag: 32-43=-10, 8-16=-10
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 2-3=-14, 3-6=-7, 6-7=-30, 7-8=-40, 8-10=-30, 11-37=-20, 16-32=-30, 7-43=-10, 1-2=-13
    Horz: 1-37=-5, 2-3=-6, 6-10=-10, 10-11=-18, 1-2=-7
    Drag: 32-43=-10, 8-16=-10
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 2-3=9, 3-45=9, 6-45=2, 6-7=2, 7-8=-4, 8-10=2, 11-37=-12, 16-32=-18, 7-43=-6, 1-2=9
    Horz: 1-37=5, 2-3=-21, 6-10=14, 10-11=12, 1-2=-21
    Drag: 32-43=-10, 8-16=-10
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 2-3=2, 3-45=2, 6-45=9, 6-7=9, 7-8=3, 8-10=9, 11-37=-12, 16-32=-18, 7-43=-6, 1-2=2
Horz: 1-37=-12, 2-3=-14, 6-10=21, 10-11=-5, 1-2=-14
Drag: 32-43=-10, 8-16=-10

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=9, 3-45=9, 6-45=2, 6-7=2, 7-8=-4, 8-10=2, 11-37=-12, 16-32=-18, 7-43=-6, 1-2=9
Horz: 1-37=5, 2-3=-21, 6-10=14, 10-11=12, 1-2=-21
Drag: 32-43=-10, 8-16=-10

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=2, 3-45=2, 6-45=9, 6-7=9, 7-8=3, 8-10=9, 11-37=-12, 16-32=-18, 7-43=-6, 1-2=2
Horz: 1-37=-12, 2-3=-14, 6-10=21, 10-11=-5, 1-2=-14
Drag: 32-43=-10, 8-16=-10

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-7, 3-45=-7, 6-45=-15, 6-7=-15, 7-8=-25, 8-10=-15, 11-37=-20, 16-32=-30, 7-43=-10, 1-2=-7
Horz: 1-37=14, 2-3=-13, 6-10=5, 10-11=3, 1-2=-13
Drag: 32-43=-10, 8-16=-10

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-15, 3-45=-15, 6-45=-7, 6-7=-7, 7-8=-17, 8-10=-7, 11-37=-20, 16-32=-30, 7-43=-10, 1-2=-15
Horz: 1-37=-3, 2-3=-5, 6-10=13, 10-11=-14, 1-2=-5
Drag: 32-43=-10, 8-16=-10

18) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 2-3=-20, 3-6=-20, 6-7=-20, 7-8=-30, 8-10=-20, 37-49=-20, 35-49=-60, 11-35=-20, 16-32=-110, 7-43=-10, 1-2=-20
Drag: 32-43=-10, 8-16=-10

19) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 2-3=-20, 3-6=-20, 6-7=-20, 7-8=-30, 8-10=-20, 37-49=-20, 35-49=-60, 11-35=-20, 16-32=-110, 7-43=-10, 1-2=-20
Drag: 32-43=-10, 8-16=-10

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-57, 3-6=-41, 6-7=-45, 7-8=-55, 8-10=-45, 37-49=-20, 35-49=-50, 11-35=-20, 16-32=-90, 7-43=-10, 1-2=-41
Horz: 1-37=14, 2-3=7, 6-10=5, 10-11=4, 1-2=-9
Drag: 32-43=-10, 8-16=-10

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-45, 3-6=-41, 6-7=-57, 7-8=-67, 8-10=-57, 37-49=-20, 35-49=-50, 11-35=-20, 16-32=-90, 7-43=-10, 1-2=-45
Horz: 1-37=-4, 2-3=-5, 6-10=-7, 10-11=-14, 1-2=-5
Drag: 32-43=-10, 8-16=-10

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-41, 3-45=-41, 6-45=-46, 6-7=-46, 7-8=-56, 8-10=-46, 37-49=-20, 35-49=-50, 11-35=-20, 16-32=-90, 7-43=-10, 1-2=-41
Horz: 1-37=11, 2-3=-9, 6-10=4, 10-11=2, 1-2=-9
Drag: 32-43=-10, 8-16=-10

23) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-46, 3-45=-46, 6-45=-41, 6-7=-41, 7-8=-51, 8-10=-41, 37-49=-20, 35-49=-50, 11-35=-20, 16-32=-90, 7-43=-10,
1-2=-46
Horz: 1-37=-2, 2-3=-4, 6-10=9, 10-11=-11, 1-2=-4
Drag: 32-43=-10, 8-16=-10

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 3-6=-60, 6-7=-20, 7-8=-30, 8-10=-20, 11-37=-20, 16-32=-30, 7-43=-10, 1-2=-60
Drag: 32-43=-10, 8-16=-10

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-20, 3-6=-60, 6-7=-60, 7-8=-70, 8-10=-60, 11-37=-20, 16-32=-30, 7-43=-10, 1-2=-20
Drag: 32-43=-10, 8-16=-10

26) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-50, 3-6=-50, 6-7=-20, 7-8=-30, 8-10=-20, 37-49=-20, 35-49=-50, 11-35=-20, 16-32=-90, 7-43=-10, 1-2=-50
Drag: 32-43=-10, 8-16=-10

27) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-20, 3-6=-50, 6-7=-50, 7-8=-60, 8-10=-50, 37-49=-20, 35-49=-50, 11-35=-20, 16-32=-90, 7-43=-10, 1-2=-20
Drag: 32-43=-10, 8-16=-10

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1 111-R	AT09G	GABLE	1	1	I57917599
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523

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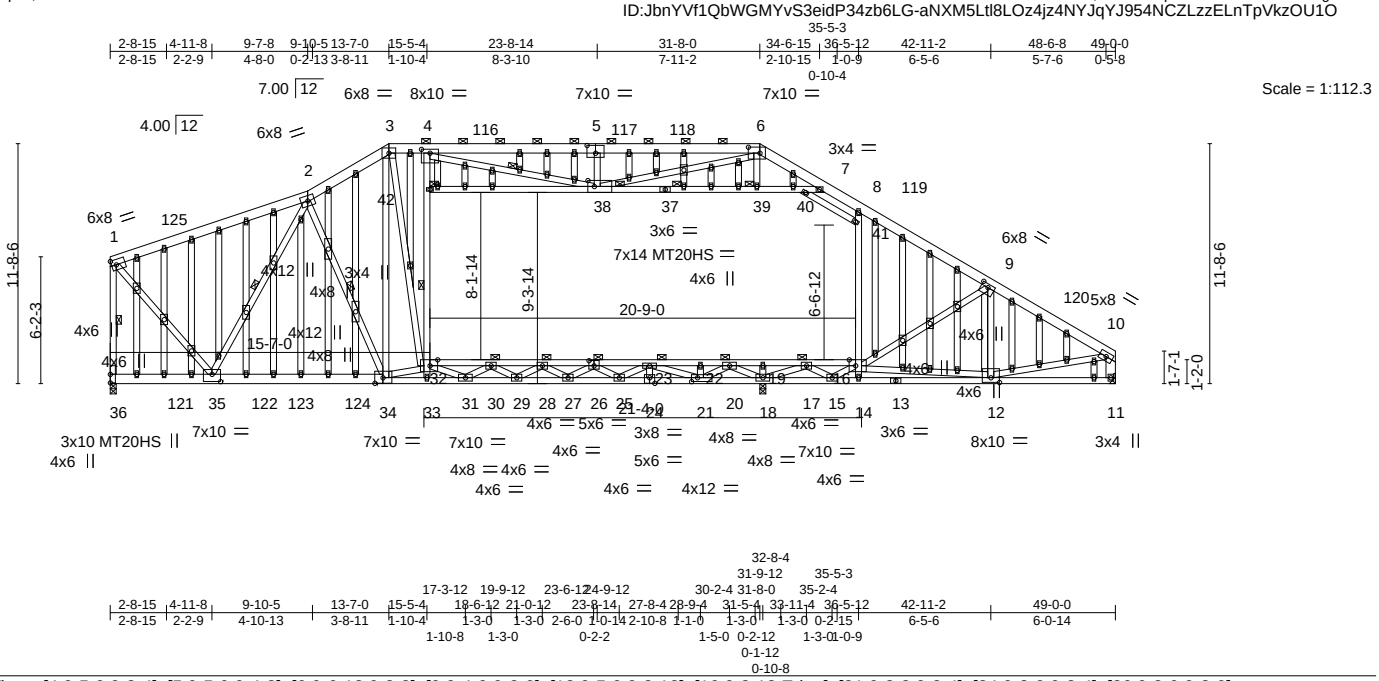

Plate Offsets (X,Y)-- [4:0-5-0,0-2-4], [5:0-5-0,0-4-8], [6:0-6-12,0-3-8], [9:0-4-0,0-2-0], [12:0-5-0,0-2-12], [16:0-3-12,Edge], [21:0-3-8,0-2-4], [24:0-3-0,0-3-4], [26:0-3-0,0-3-0], [32:0-4-8,Edge], [34:0-4-12,0-3-4], [35:0-5-0,0-4-4], [38:0-3-12,0-3-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.38	28-30	>994	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.64	28-30	>595	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.09	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.09	33	>999	240	Weight: 663 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
6-10: 2x6 SP DSS

BOT CHORD 2x4 SP No.2 *Except*
34-36: 2x6 SP DSS, 13-24: 2x4 SP No.1, 24-34,16-26: 2x4 SP SS

WEBS 2x4 SP No.3 *Except*
1-36,4-33,7-37,8-14,12-16,37-42,1-35: 2x4 SP No.2
10-11: 2x6 SP No.2

OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-0 max.): 3-6.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 18-21
5-8-2 oc bracing: 15-18
4-6-10 oc bracing: 14-15
4-11-7 oc bracing: 12-14.
3-6-0 oc bracing: 26-28
4-0-0 oc bracing: 28-30
4-6-0 oc bracing: 20-26
6-0-0 oc bracing: 30-32
10-0-0 oc bracing: 17-20, 16-17

WEBS 1 Row at midpt 1-36, 32-42, 38-39, 4-38, 2-35, 2-34

JOINTS 1 Brace at Jt(s): 38, 39, 42, 26, 30, 28, 20, 17

REACTIONS. (lb/size) 36=2611/0-3-8 (req. 0-3-14), 11=1848/Mechanical, 18=1051/0-3-8 (min. 0-1-14)
Max Horz 36=184(LC 11)
Max Grav 36=3265(LC 26), 11=2035(LC 2), 18=1595(LC 21)

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

TOP CHORD 1-36=-3115/0, 2-3=-2989/0, 3-4=-2724/0, 4-116=-2945/191, 116-117=-2945/191, 5-117=-2945/191, 5-118=-2926/186, 6-118=-2926/186, 6-7=-1501/203, 7-119=-2524/0, 8-119=-2566/0, 8-9=-3168/0, 9-120=-2608/0, 10-120=-2741/0, 10-11=-1970/0, 1-125=-2082/0, 2-125=-2010/6

BOT CHORD 35-122=0/2538, 122-123=0/2532, 123-124=0/2532, 34-124=0/2530, 33-34=0/2002, 31-33=0/2058, 29-31=0/3996, 27-29=0/4668, 25-27=0/4772, 24-25=0/3669, 21-24=0/3669, 18-21=-463/657, 15-18=-1159/0, 14-15=-1550/928, 13-14=-1301/986, 12-13=-1301/986, 30-32=-555/0, 28-30=-1929/0, 26-28=-2423/0, 23-26=-2033/156, 22-23=-163/1494, 20-22=-163/1494, 19-20=0/4039, 17-19=0/4039, 16-17=0/3946

WEBS 3-32=0/1185, 32-42=-716/233, 4-42=-594/253, 37-38=-1877/0, 37-39=-1877/0, 39-40=-1880/0, 7-40=-1614/0, 14-16=0/298, 16-41=-150/632, 8-41=-37/795, 9-12=-779/0, 10-12=0/2200, 5-38=-523/118, 4-38=-388/868, 6-38=0/2093, 32-34=0/945, 9-16=-83/635, 12-16=0/3259, 40-41=-337/0, 25-26=-546/0, 31-32=0/1663, 30-31=-1177/0, 29-30=0/582, 28-29=-514/20, 23-25=0/831, 21-23=-1653/0, 20-21=0/1917, 17-18=-1073/175, 15-17=-375/718, 15-16=-718/199, 21-22=-370/0, 3-34=-204/309, 2-35=-1348/0, 1-35=0/2934, 18-19=-379/0, 18-20=-1990/0

NOTES-

1) Unbalanced roof live loads have been considered for this design.

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Continued on page 2

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

NOTES-

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2) 4-2-4 to 7-2-4, Interior(1) 7-2-4 to 17-7-8, Exterior(2) 17-7-8 to 21-10-7, Interior(1) 21-10-7 to 35-8-8, Exterior(2) 35-8-8 to 39-11-7, Interior(1) 39-11-7 to 52-9-12 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) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Ceiling dead load (5.0 psf) on member(s). 7-8, 38-42, 38-39, 39-40, 7-40; Wall dead load (5.0psf) on member(s).32-42, 16-41, 8-41
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 30-32, 28-30, 26-28, 23-26, 22-23, 20-22, 19-20, 17-19, 16-17
12) WARNING: Required bearing size at joint(s) 36 greater than input bearing size.
13) Refer to girder(s) for truss to truss connections.
14) 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.
15) N/A

16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
17) Attic room checked for L/360 deflection.
18) 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)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 3-6=-60, 6-7=-60, 7-8=-70, 8-10=-60, 36-121=-20, 121-123=-100(F=-80), 11-123=-20, 16-32=-30, 7-42=-10, 1-2=-60
Drag: 32-42=-10, 8-16=-10
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-50, 3-6=-50, 6-7=-50, 7-8=-60, 8-10=-50, 36-121=-20, 121-122=-150(F=-130), 122-123=-180(F=-130), 123-124=-50, 11-124=-20, 16-32=-90, 7-42=-10, 1-2=-50
Drag: 32-42=-10, 8-16=-10
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-3=-20, 3-6=-20, 6-7=-20, 7-8=-30, 8-10=-20, 36-121=-40, 121-123=-100(F=-60), 11-123=-40, 16-32=-30, 7-42=-10, 1-2=-20
Drag: 32-42=-10, 8-16=-10
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=12, 3-116=20, 6-116=15, 6-7=17, 7-119=11, 8-119=6, 8-10=12, 36-121=-12, 121-123=-2(F=10), 11-123=-12, 16-32=-18, 7-42=-6, 1-125=22, 2-125=12
Horz: 1-36=13, 2-3=-24, 6-119=29, 10-119=24, 10-11=24, 1-125=-34, 2-125=-24
Drag: 32-42=-10, 8-16=-10
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=17, 3-118=15, 6-118=20, 6-7=12, 7-8=6, 8-120=12, 10-120=17, 36-121=-12, 121-123=-4(F=8), 11-123=-12, 16-32=-18, 7-42=-6, 1-2=12
Horz: 1-36=-24, 2-3=-29, 6-120=24, 10-120=29, 10-11=-13, 1-2=-24
Drag: 32-42=-10, 8-16=-10
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-44, 3-6=-29, 6-7=-44, 7-8=-54, 8-10=-44, 36-121=-20, 121-123=-84(F=-64), 11-123=-20, 16-32=-30, 7-42=-10, 1-2=-32
Horz: 1-36=-15, 2-3=24, 6-10=-24, 10-11=-22, 1-2=12
Drag: 32-42=-10, 8-16=-10
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-44, 3-6=-29, 6-7=-44, 7-8=-54, 8-10=-44, 36-121=-20, 121-123=-84(F=-64), 11-123=-20, 16-32=-30, 7-42=-10, 1-2=-32
Horz: 1-36=22, 2-3=24, 6-10=-24, 10-11=15, 1-2=12
Drag: 32-42=-10, 8-16=-10
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-13, 3-6=9, 6-7=3, 7-8=-3, 8-10=3, 36-121=-12, 121-123=-15(F=-3), 11-123=-12, 16-32=-18, 7-42=-6, 1-2=9
Horz: 1-36=9, 2-3=1, 6-10=15, 10-11=14, 1-2=-21
Drag: 32-42=-10, 8-16=-10
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=3, 3-6=9, 6-7=-13, 7-8=-19, 8-10=-13, 36-121=-12, 121-123=-15(F=-3), 11-123=-12, 16-32=-18, 7-42=-6, 1-2=4
Horz: 1-36=-14, 2-3=-15, 6-10=-1, 10-11=-9, 1-2=-16
Drag: 32-42=-10, 8-16=-10
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-30, 3-6=-7, 6-7=-14, 7-8=-24, 8-10=-14, 36-121=-20, 121-123=-70(F=-50), 11-123=-20, 16-32=-30, 7-42=-10, 1-2=-7
Horz: 1-36=18, 2-3=10, 6-10=6, 10-11=5, 1-2=-13
Drag: 32-42=-10, 8-16=-10
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 2-3=-14, 3-6=-7, 6-7=-30, 7-8=-40, 8-10=-30, 36-121=-20, 121-123=-70(F=-50), 11-123=-20, 16-32=-30, 7-42=-10, 1-2=-13
Horz: 1-36=-5, 2-3=-6, 6-10=-10, 10-11=-18, 1-2=-7
Drag: 32-42=-10, 8-16=-10

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=9, 3-117=9, 6-117=2, 6-7=2, 7-8=-4, 8-10=2, 36-121=-12, 121-123=-15(F=-3), 11-123=-12, 16-32=-18, 7-42=-6, 1-2=9
Horz: 1-36=5, 2-3=-21, 6-10=14, 10-11=12, 1-2=-21
Drag: 32-42=-10, 8-16=-10

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=2, 3-117=2, 6-117=9, 6-7=9, 7-8=3, 8-10=9, 36-121=-12, 121-123=-15(F=-3), 11-123=-12, 16-32=-18, 7-42=-6, 1-2=2
Horz: 1-36=-12, 2-3=-14, 6-10=21, 10-11=-5, 1-2=-14
Drag: 32-42=-10, 8-16=-10

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=9, 3-117=9, 6-117=2, 6-7=2, 7-8=-4, 8-10=2, 36-121=-12, 121-123=-15(F=-3), 11-123=-12, 16-32=-18, 7-42=-6, 1-2=9
Horz: 1-36=5, 2-3=-21, 6-10=14, 10-11=12, 1-2=-21
Drag: 32-42=-10, 8-16=-10

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=2, 3-117=2, 6-117=9, 6-7=9, 7-8=3, 8-10=9, 36-121=-12, 121-123=-15(F=-3), 11-123=-12, 16-32=-18, 7-42=-6, 1-2=2
Horz: 1-36=-12, 2-3=-14, 6-10=21, 10-11=-5, 1-2=-14
Drag: 32-42=-10, 8-16=-10

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-7, 3-117=-7, 6-117=-15, 6-7=-15, 7-8=-25, 8-10=-15, 36-121=-20, 121-123=-74(F=-54), 11-123=-20, 16-32=-30, 7-42=-10, 1-2=-7
Horz: 1-36=14, 2-3=-13, 6-10=5, 10-11=3, 1-2=-13
Drag: 32-42=-10, 8-16=-10

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-15, 3-117=-15, 6-117=-7, 6-7=-7, 7-8=-17, 8-10=-7, 36-121=-20, 121-123=-64(F=-44), 11-123=-20, 16-32=-30, 7-42=-10, 1-2=-15
Horz: 1-36=-3, 2-3=-5, 6-10=13, 10-11=-14, 1-2=-5
Drag: 32-42=-10, 8-16=-10

18) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 2-3=-20, 3-6=-20, 6-7=-20, 7-8=-30, 8-10=-20, 36-121=-20, 121-122=-140(F=-120), 122-123=-180(F=-120), 123-124=-60, 11-124=-20, 16-32=-110, 7-42=-10, 1-2=-20
Drag: 32-42=-10, 8-16=-10

19) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 2-3=-20, 3-6=-20, 6-7=-20, 7-8=-30, 8-10=-20, 36-121=-20, 121-122=-140(F=-120), 122-123=-180(F=-120), 123-124=-60, 11-124=-20, 16-32=-110, 7-42=-10, 1-2=-20
Drag: 32-42=-10, 8-16=-10

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-57, 3-6=-41, 6-7=-45, 7-8=-55, 8-10=-45, 36-121=-20, 121-122=-157(F=-137), 122-123=-187(F=-137), 123-124=-50, 11-124=-20, 16-32=-90, 7-42=-10, 1-2=-41
Horz: 1-36=14, 2-3=7, 6-10=5, 10-11=4, 1-2=-9
Drag: 32-42=-10, 8-16=-10

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-45, 3-6=-41, 6-7=-57, 7-8=-67, 8-10=-57, 36-121=-20, 121-122=-157(F=-137), 122-123=-187(F=-137), 123-124=-50, 11-124=-20, 16-32=-90, 7-42=-10, 1-2=-45
Horz: 1-36=-4, 2-3=-5, 6-10=-7, 10-11=-14, 1-2=-5
Drag: 32-42=-10, 8-16=-10

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-41, 3-117=-41, 6-117=-46, 6-7=-46, 7-8=-56, 8-10=-46, 36-121=-20, 121-122=-161(F=-141), 122-123=-191(F=-141), 123-124=-50, 11-124=-20, 16-32=-90, 7-42=-10, 1-2=-41
Horz: 1-36=11, 2-3=-9, 6-10=4, 10-11=2, 1-2=-9
Drag: 32-42=-10, 8-16=-10

23) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-3=-46, 3-117=-46, 6-117=-41, 6-7=-41, 7-8=-51, 8-10=-41, 36-121=-20, 121-122=-153(F=-133), 122-123=-183(F=-133), 123-124=-50, 11-124=-20, 16-32=-90, 7-42=-10, 1-2=-46
Horz: 1-36=-2, 2-3=-4, 6-10=9, 10-11=-11, 1-2=-4
Drag: 32-42=-10, 8-16=-10

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Continued on page 4

LOAD CASE(S)

Uniform Loads (plf)
Vert: 2-3=-60, 3-6=-60, 6-7=-20, 7-8=-30, 8-10=-20, 36-121=-20, 121-123=-100(F=-80), 11-123=-20, 16-32=-30, 7-42=-10, 1-2=-60
Drag: 32-42=-10, 8-16=-10

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-20, 3-6=-60, 6-7=-60, 7-8=-70, 8-10=-60, 36-121=-20, 121-123=-100(F=-80), 11-123=-20, 16-32=-30, 7-42=-10, 1-2=-20
Drag: 32-42=-10, 8-16=-10

26) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-50, 3-6=-50, 6-7=-20, 7-8=-30, 8-10=-20, 36-121=-20, 121-122=-150(F=-130), 122-123=-180(F=-130), 123-124=-50, 11-124=-20, 16-32=-90, 7-42=-10, 1-2=-50
Drag: 32-42=-10, 8-16=-10

27) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-20, 3-6=-50, 6-7=-50, 7-8=-60, 8-10=-50, 36-121=-20, 121-122=-150(F=-130), 122-123=-180(F=-130), 123-124=-50, 11-124=-20, 16-32=-90, 7-42=-10, 1-2=-20
Drag: 32-42=-10, 8-16=-10

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111 I57917600
NC1_111-R	C01G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:28:35 2023 Page 1
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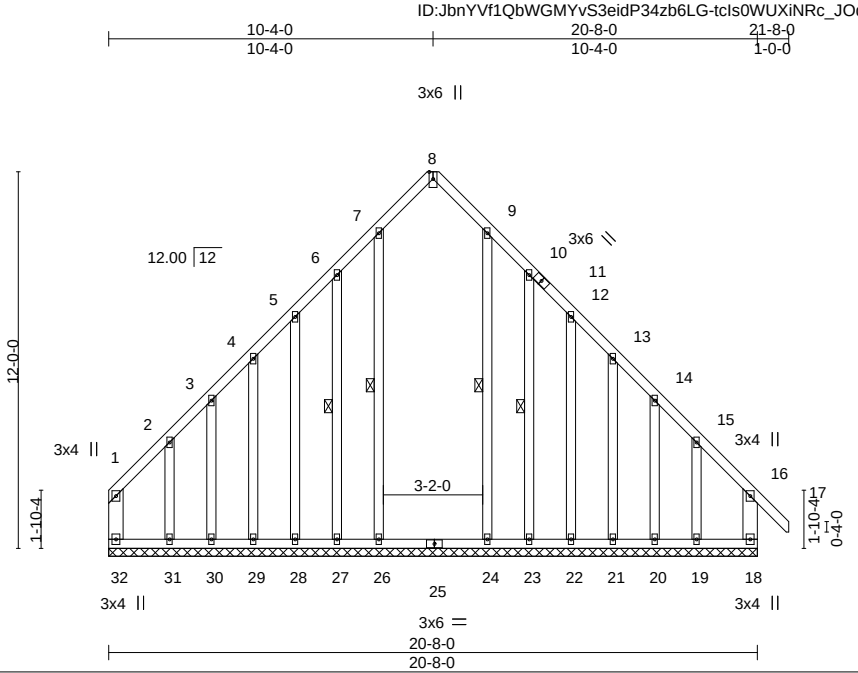

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.01	17	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.01	17	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 201 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x6 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.
WEBS	1 Row at midpt 7-26, 6-27, 9-24, 10-23

REACTIONS. All bearings 20-8-0.
(lb) - Max Horz 32=-263(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 28, 29, 30, 22, 21, 20 except 32=-186(LC 10), 18=-158(LC 11), 27=-103(LC 12), 31=-303(LC 12), 23=-102(LC 13), 19=-330(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 27, 28, 29, 30, 23, 22, 21, 20 except 32=301(LC 9), 18=342(LC 19), 26=305(LC 22), 31=298(LC 10), 24=308(LC 21), 19=296(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 15-16=-254/185, 16-18=-257/104

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-2-12 to 3-3-4, Interior(1) 3-3-4 to 10-4-0, Exterior(2) 10-4-0 to 14-8-12, Interior(1) 14-8-12 to 21-7-8 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
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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 29, 30, 22, 21, 20 except (jt=lb) 32=186, 18=158, 27=103, 31=303, 23=102, 19=330.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	C02	COMMON	1	1	I57917601
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:28:37 2023 Page 1
ID:JbnYVf1QbWGMYvS3eidP34zb6LG-p_QdRCVnE?hKDcY?8LWWoYqdc9GV86d3qV0lsIzOV0u

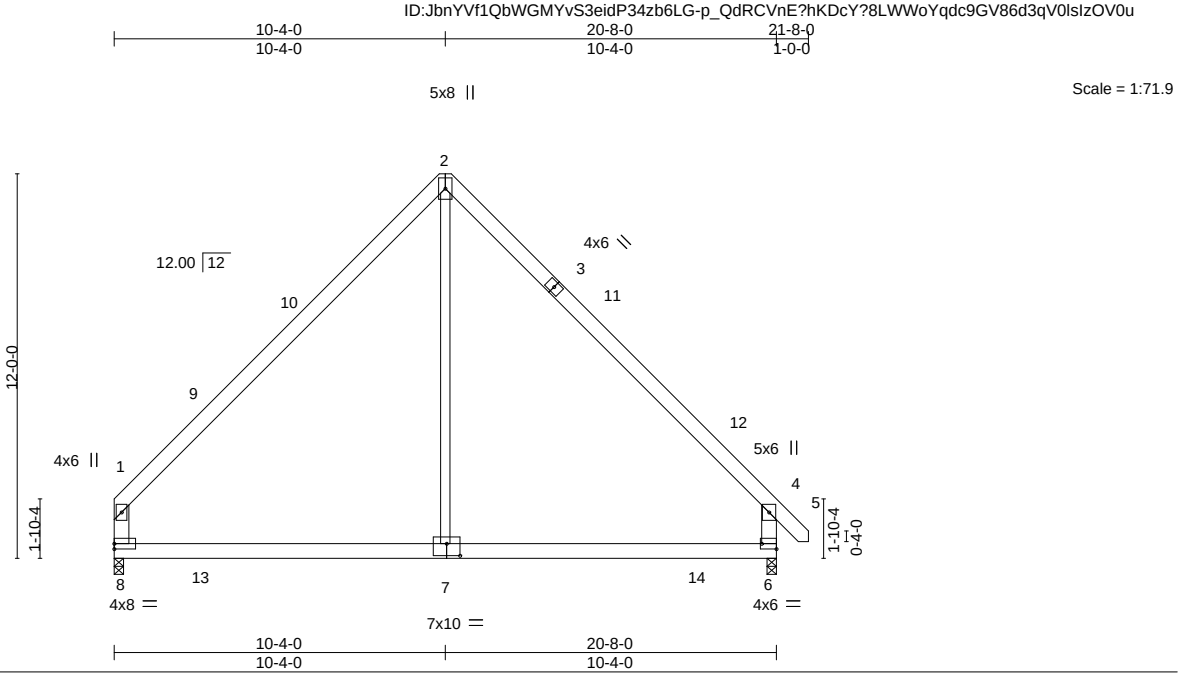

Plate Offsets (X,Y)-- [6:Edge,0-2-0], [7:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.11	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.18	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	-0.08	7-8	>999	240	Weight: 143 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x6 SP No.2 *Except*
2-7: 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) 8=0-3-8, 6=0-3-8
Max Horz 8=-255(LC 8)
Max Grav 8=960(LC 20), 6=1006(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-763/113, 1-2=-937/112, 2-4=-947/114, 4-6=-837/145
BOT CHORD 7-8=-2/581, 6-7=-2/583
WEBS 2-7=0/616

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 10-4-0, Exterior(2) 10-4-0 to 14-6-15, Interior(1) 14-6-15 to 21-6-2 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) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

April 21,2023

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	C04GR	COMMON	1	3	I57917602

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:28:38 2023 Page 1

ID:JbnYVf1QbWGMYvS3eidP34zb6LG-HB_?eYWQ?IpBrm7Ci21lKlNuCZV0tROC39lJOkzOV0t

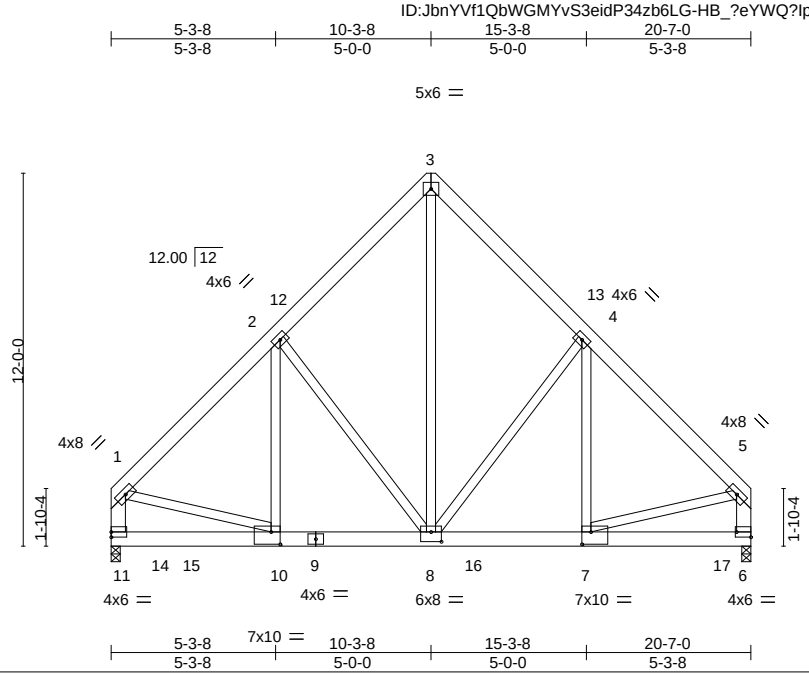

Plate Offsets (X,Y)-- [6:Edge,0-2-0], [7:0-3-8,0-4-12], [8:0-4-0,0-3-12], [10:0-3-8,0-4-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.05	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.11	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.04	7-8	>999	240	Weight: 587 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
1-11,5-6: 2x6 SP No.2

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) 11=0-3-8, 6=0-3-8
Max Horz 11=241(LC 5)
Max Uplift 11=-429(LC 8), 6=-501(LC 9)
Max Grav 11=6577(LC 15), 6=7506(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-4522/297, 1-2=-5002/360, 2-3=-4190/390, 3-4=-4224/389, 4-5=-6725/493, 5-6=-6040/415
BOT CHORD 10-11=-211/673, 8-10=-265/3591, 7-8=-281/4687, 6-7=-81/690
WEBS 3-8=-482/5498, 4-8=-2719/355, 4-7=-267/3782, 5-7=-250/4176, 2-8=-898/200, 2-10=-49/1043, 1-10=-166/3048

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=429, 6=501.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1662 lb down and 131 lb up at 0-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 11-15=-20, 15-16=-359(F=-339), 16-17=-876(F=-856), 6-17=-20

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Continued on page 2

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818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 14=-1545(F)

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111 I57917603
NC1_111-R	D01G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:28:40 2023 Page 1
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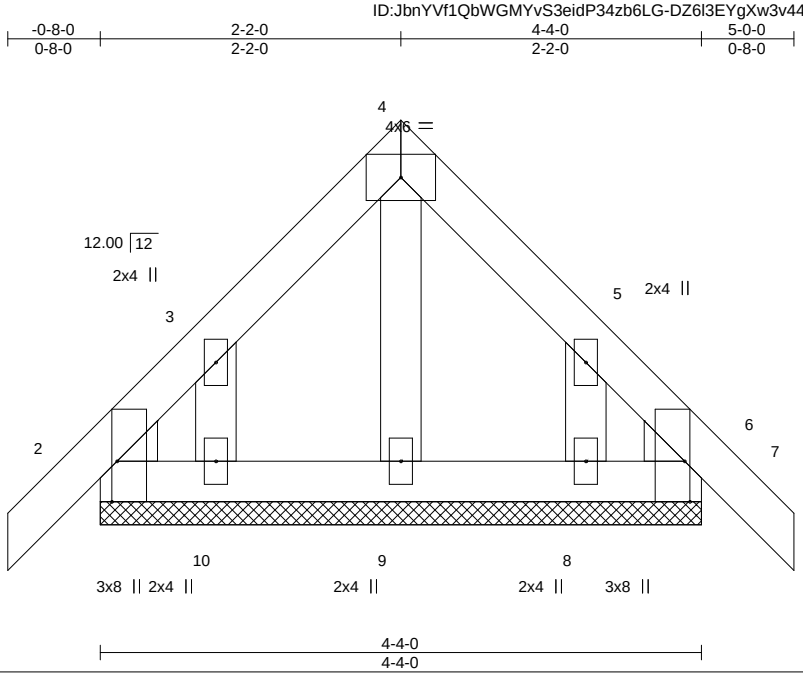

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [6:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 26 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

REACTIONS. All bearings 4-4-0.
(lb) - Max Horz 2=-56(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end 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 1-4-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.

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Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111 I57917604
NC1_111-R	D02	COMMON	6	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:28:41 2023 Page 1
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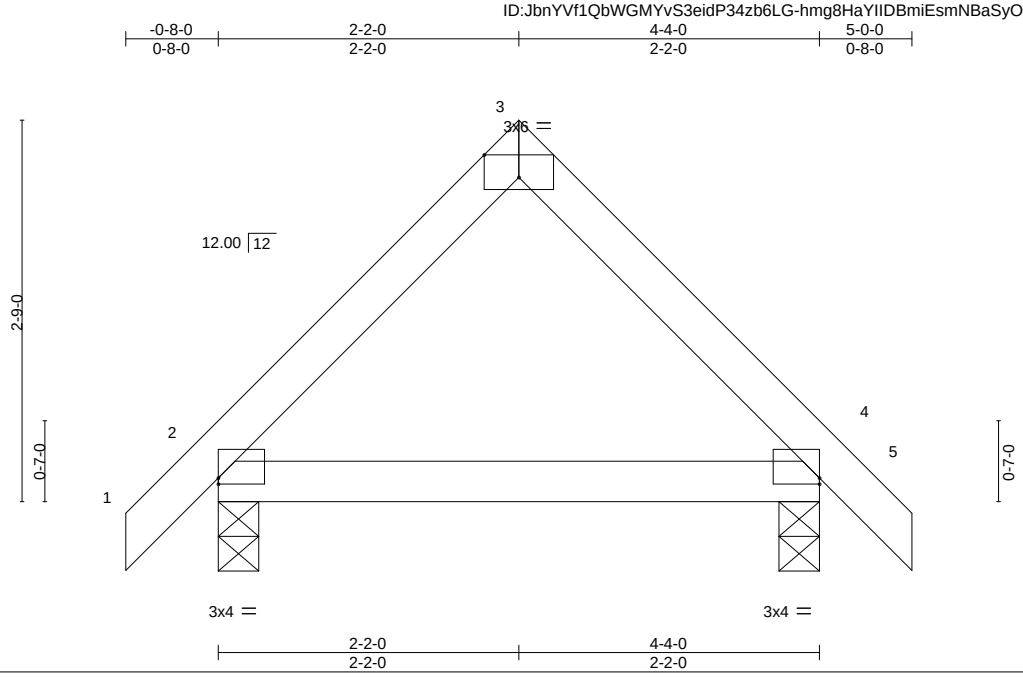

Plate Offsets (X,Y)-- [2:0-0-0,0-0-8], [3:0-3-0,Edge], [4:Edge,0-0-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.01	8-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	8-11	>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		Wind(LL)	0.00	8-11	>999	240	Weight: 19 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 4-4-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-56(LC 10)
Max Uplift 2=-9(LC 12), 4=-9(LC 13)
Max Grav 2=213(LC 1), 4=213(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end 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) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

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Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	E01	QUEENPOST	5	1	I57917605
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:28:42 2023 Page 1
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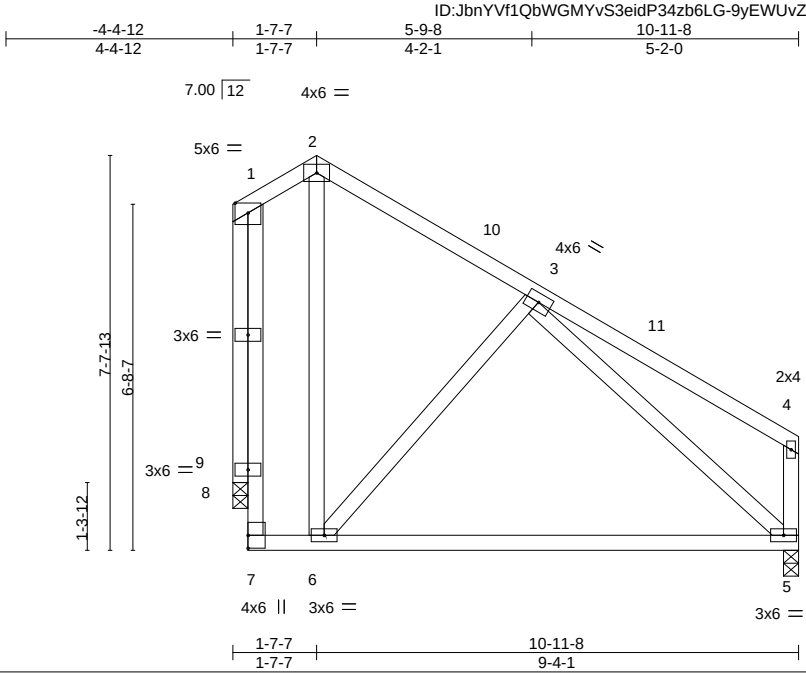

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.23	5-6	>568	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.48	5-6	>268	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	-0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.07	5-6	>999	240	Weight: 84 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 1-7,4-5: 2x4 SP No.2
OTHERS	2x4 SP No.2

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) 5=0-3-8, 9=0-3-8
Max Horz 9=-142(LC 8)
Max Uplift 9=-69(LC 13)
Max Grav 5=426(LC 1), 9=404(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-6=-21/310, 3-6=-272/146, 1-9=-405/69

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 4-7-7, Interior(1) 4-7-7 to 10-9-12 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.

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Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	G07G	GABLE	1	1	I57917606
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:28:44 2023 Page 1
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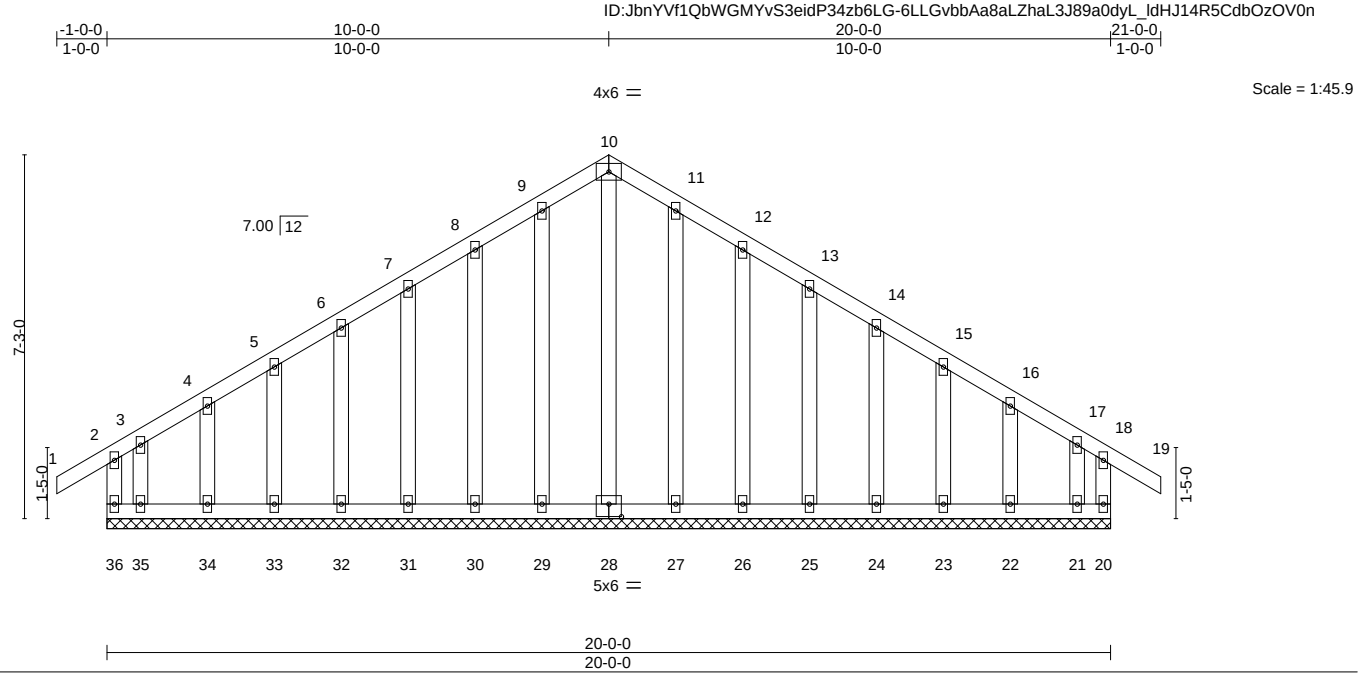

Plate Offsets (X,Y)-- [28:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.00	19	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	19	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.00	20	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							Weight: 156 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
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. All bearings 20-0-0.
(lb) - Max Horz 36=-161(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22 except 36=-194(LC 8), 20=-154(LC 9), 35=-193(LC 9), 21=-160(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 20, 28, 29, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22, 21 except 36=252(LC 20)

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 10-0-0, Corner(3) 10-0-0 to 13-0-0, Exterior(2) 13-0-0 to 21-0-0 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22 except (jt=lb) 36=194, 20=154, 35=193, 21=160.

April 21,2023

ENGINEERING BY
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	G08	COMMON	5	1	I57917607
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:28:46 2023 Page 1
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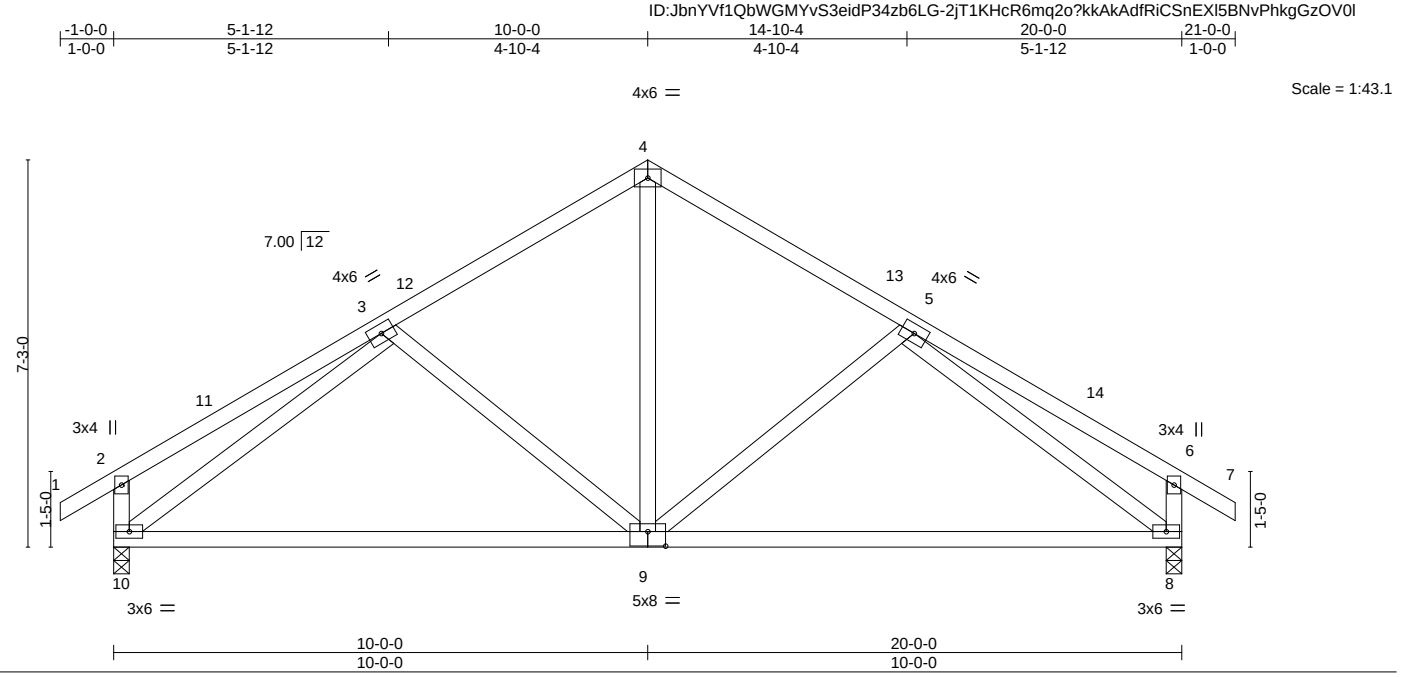

Plate Offsets (X,Y)-- [9:0-4-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.19	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.38	9-10	>627	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.01	9	>999	240	Weight: 117 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 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 2-2-0 oc bracing.

REACTIONS. (size) 10=0-3-8, 8=0-3-8
Max Horz 10=161(LC 11)
Max Uplift 10=-4(LC 12), 8=-4(LC 13)
Max Grav 10=857(LC 1), 8=857(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-287/88, 3-4=-768/78, 4-5=-768/78, 6-8=-287/88
BOT CHORD 9-10=-19/728, 8-9=-5/713
WEBS 4-9=0/466, 5-8=-761/35, 3-10=-761/35

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-0-0, Exterior(2) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 21-0-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8.

April 21,2023

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TRENCO
A MiTek Affiliate
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111 I57917608
NC1_111-R	H01G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:28:48 2023 Page 1
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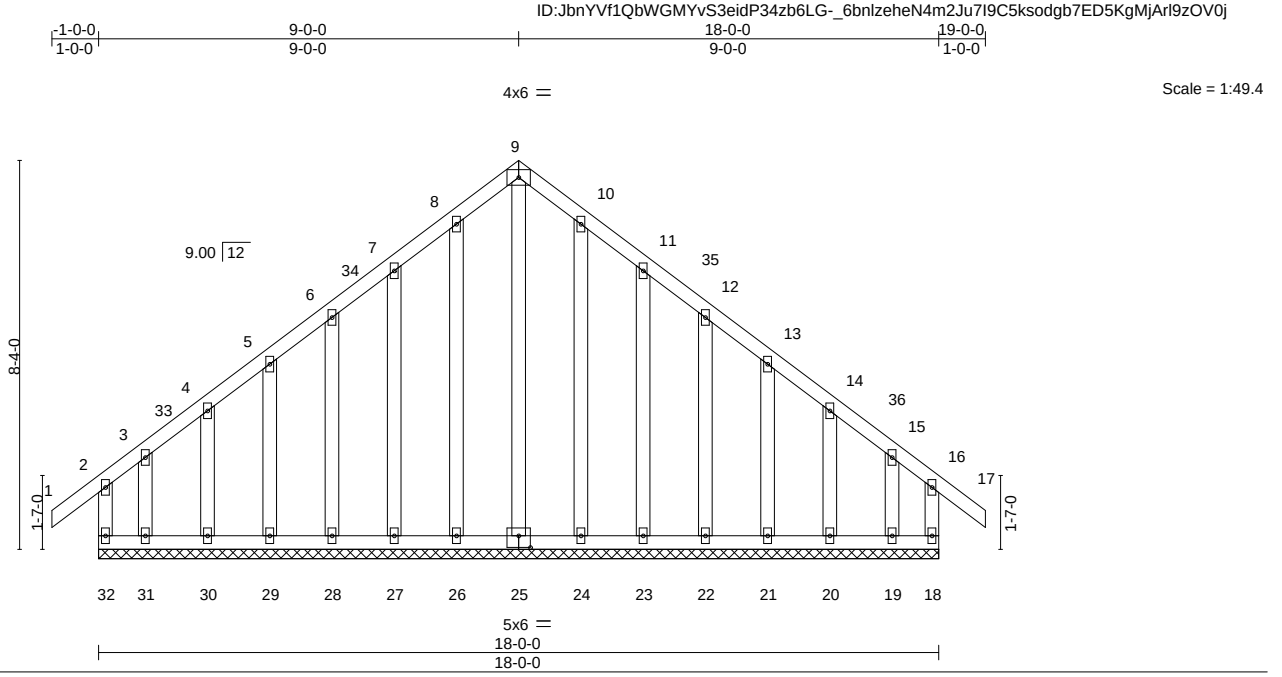

Plate Offsets (X,Y)-- [25:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.00	17	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	17	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	-0.00	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							Weight: 156 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
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. All bearings 18-0-0.
(lb) - Max Horz 32=187(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 27, 28, 29, 30, 23, 22, 21, 20 except 32=-182(LC 8), 18=-158(LC 9), 31=-180(LC 9), 19=-162(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 32, 18, 25, 26, 27, 28, 29, 30, 31, 24, 23, 22, 21, 20, 19

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 9-0-0, Exterior(2) 9-0-0 to 13-0-0, Interior(1) 13-0-0 to 19-0-0 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 28, 29, 30, 23, 22, 21, 20 except (jt=lb) 32=182, 18=158, 31=180, 19=162.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	H02	COMMON	5	1	I57917609
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:28:49 2023 Page 1
ID:JbnYVf1QbWGMYvS3eidP34zb6LG-SI99yJeJPhCdfSTJrskKH4KkJ?IPyUnqbNwOHbzOV0i

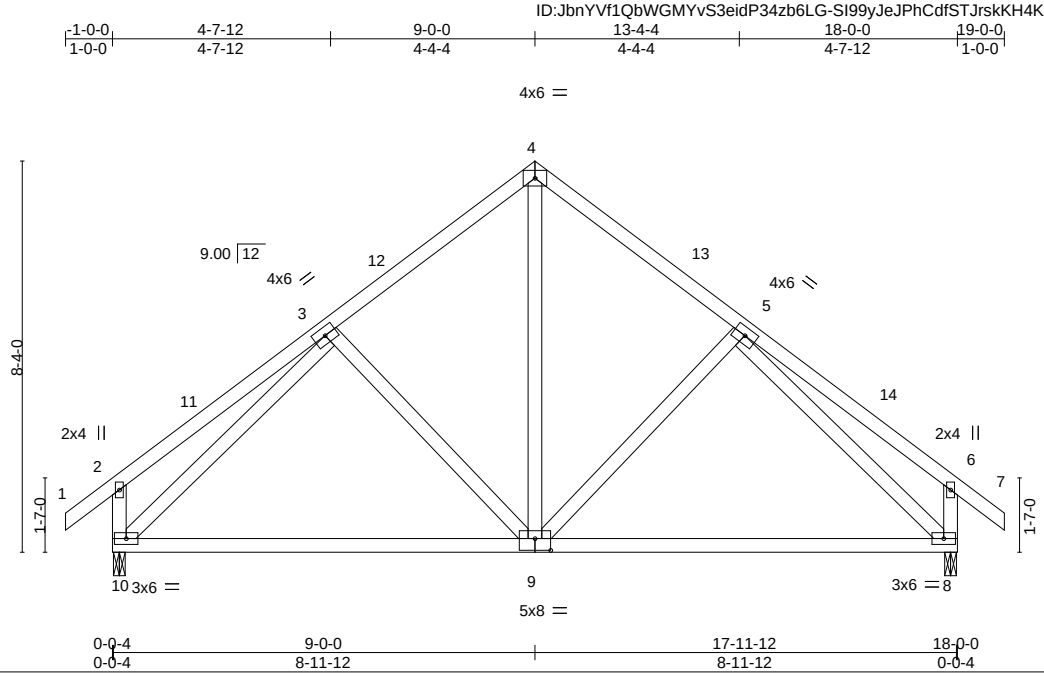

Plate Offsets (X,Y)-- [9:0-4-0,0-3-0]

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.12	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.25	8-9	>856	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.01	9	>999	240	Weight: 116 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 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) 10=0-3-0, 8=0-3-0
Max Horz 10=187(LC 11)
Max Uplift 10=-1(LC 12), 8=-1(LC 13)
Max Grav 10=777(LC 1), 8=777(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-266/104, 3-4=-605/99, 4-5=-605/99, 6-8=-266/104
BOT CHORD 9-10=-31/542, 8-9=0/498
WEBS 4-9=-36/418, 5-8=-607/5, 3-10=-607/5

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 9-0-0, Exterior(2) 9-0-0 to 13-5-15, Interior(1) 13-5-15 to 19-0-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8.

April 21,2023

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	H03G	GABLE	1	1	I57917610
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:28:52 2023 Page 1
ID:JbnYVf1QbWGMYvS3eidP34zb6LG-ttqIbKhCicaCWwBuX_H1uiyJiCUB9ufGHK82uwzOV0f

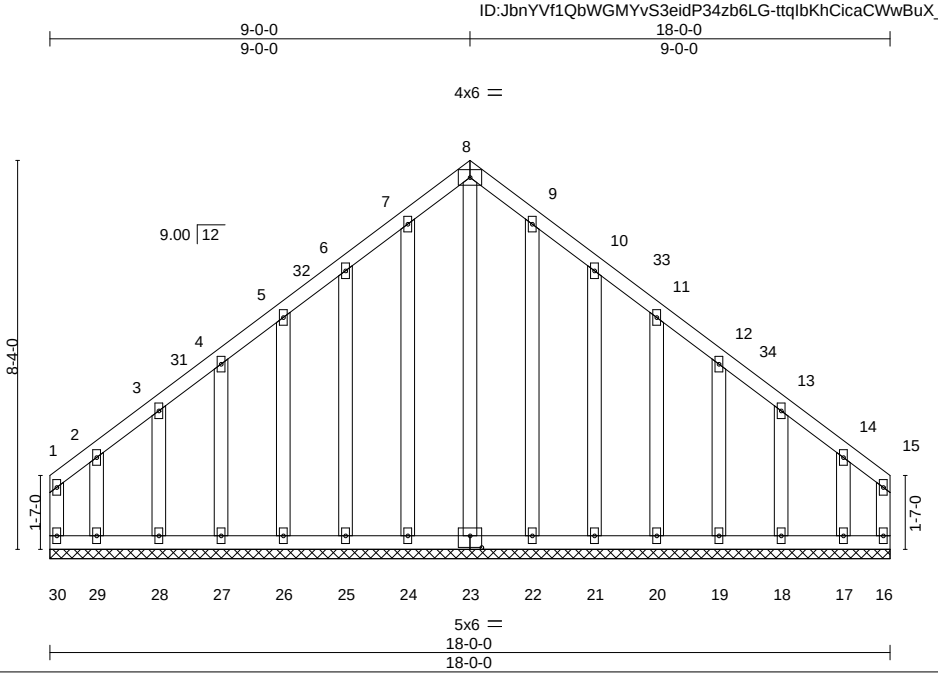

Plate Offsets (X,Y)-- [23:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							Weight: 152 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
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. All bearings 18-0-0.
(lb) - Max Horz 30=170(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 25, 26, 27, 28, 21, 20, 19, 18 except 30=-181(LC 8), 16=-160(LC 9), 29=-178(LC 9), 17=-161(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 30, 16, 23, 24, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18, 17

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-0-0, Exterior(2) 9-0-0 to 13-0-0, Interior(1) 13-0-0 to 17-10-4 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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 26, 27, 28, 21, 20, 19, 18 except (jt=lb) 30=181, 16=160, 29=178, 17=161.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	H04	COMMON	5	1	I57917611
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:28:53 2023 Page 1
ID:JbnYVf1QbWGMYvS3eidP34zb6LG-L3OgogiqTvi384m44ioGRvVQJcgLuHaPW_ucQMzOV0e

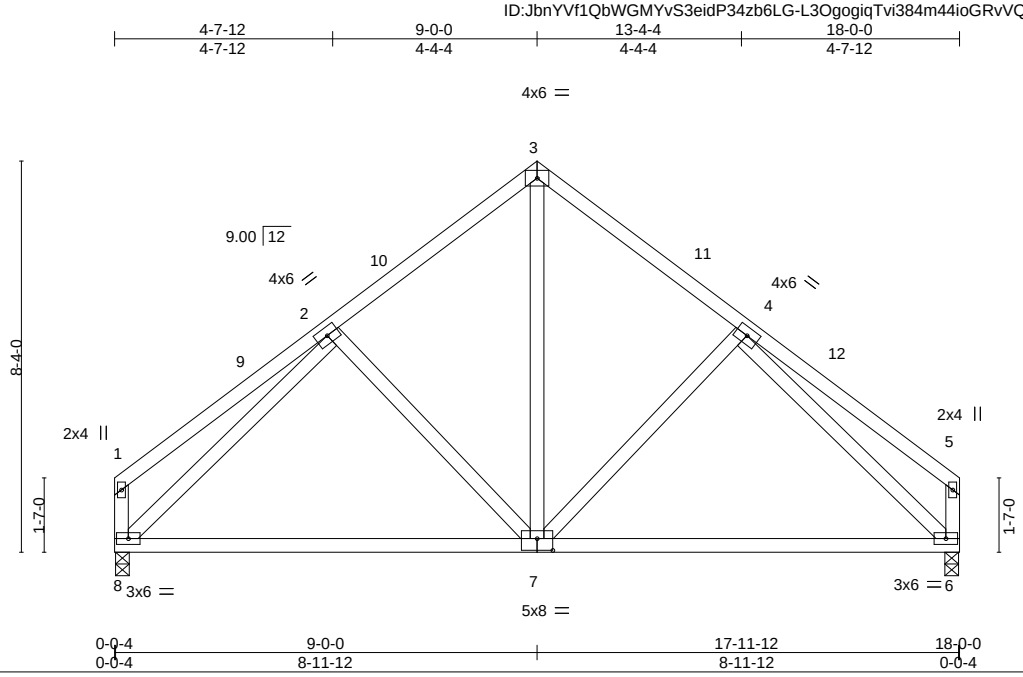

Plate Offsets (X,Y)-- [7:0-4-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.12	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.25	7-8	>855	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.01	7	>999	240	Weight: 112 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 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) 8=0-3-8, 6=0-3-8
Max Horz 8=-170(LC 10)
Max Grav 8=708(LC 1), 6=708(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-612/100, 3-4=-612/100
BOT CHORD 7-8=-38/543, 6-7=-27/508
WEBS 3-7=-39/423, 4-6=-623/38, 2-8=-623/38

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-0-0, Exterior(2) 9-0-0 to 13-5-15, Interior(1) 13-5-15 to 17-10-4 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) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

April 21,2023

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	H05GR	COMMON	1	3	I57917612

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:28:55 2023 Page 1

ID:JbnYVf1QbWGMYvS3eidP34zb6LG-HSWQDMj4?XynNNwTC7rkWKaotPHqM8XizINiUFzOV0c

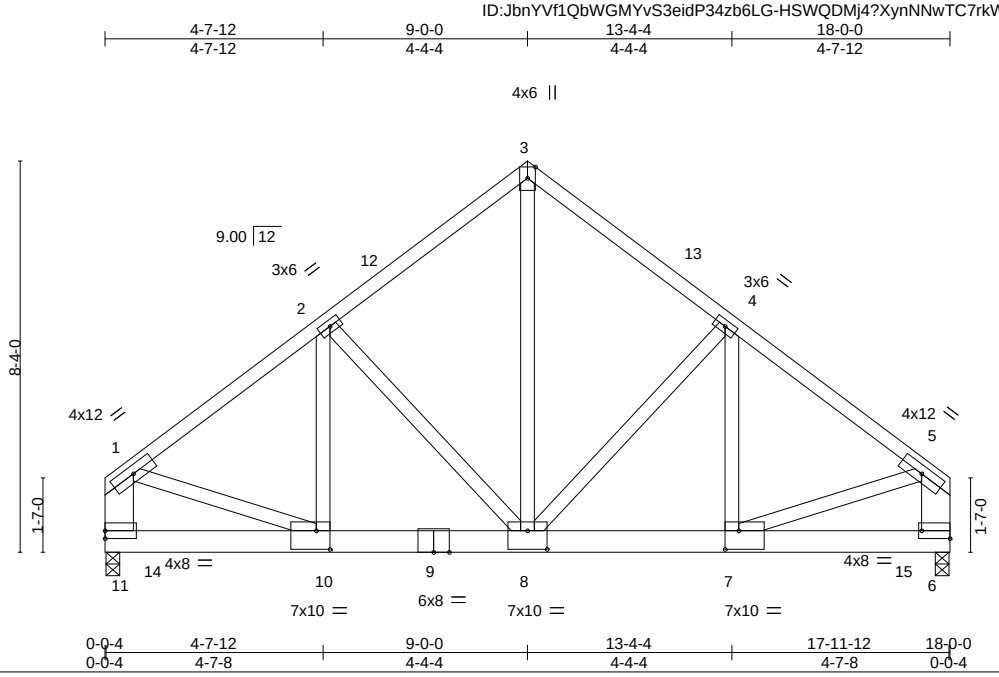

Plate Offsets (X,Y)-- [6:Edge,0-2-0], [7:0-3-8,0-4-12], [8:0-5-0,0-4-12], [10:0-3-8,0-4-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.06	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.13	8-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.05	8-10	>999	240	Weight: 413 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*
1-11,5-6: 2x8 SP DSS

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) 11=0-3-8 (req. 0-3-12), 6=0-3-8 (req. 0-3-12)
Max Horz 11=-169(LC 4)
Max Uplift 11=-692(LC 8), 6=-692(LC 9)
Max Grav 11=9574(LC 15), 6=9564(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-7926/590, 1-2=-9480/703, 2-3=-7386/601, 3-4=-7409/601, 4-5=-9482/703, 5-6=-7915/589
BOT CHORD 10-11=-144/979, 8-10=-577/7611, 7-8=-516/7537, 6-7=-84/859
WEBS 3-8=-674/8559, 4-8=-2342/278, 4-7=-191/2795, 5-7=-479/7015, 2-8=-2447/278, 2-10=-190/2810, 1-10=-478/6967

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) WARNING: Required bearing size at joint(s) 11, 6 greater than input bearing size.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=692, 6=692.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 11-14=-20, 14-15=-1060(F=-1040), 6-15=-20

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111 I57917613
NC1_111-R	M01	MONO TRUSS	4	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:28:56 2023 Page 1
ID:JbnYVf1QbWGMYvS3eidP34zb6LG-le4pQikimq4e?XVfmqMz3Y7qHpoy5gFsCy6G1hzOV0b

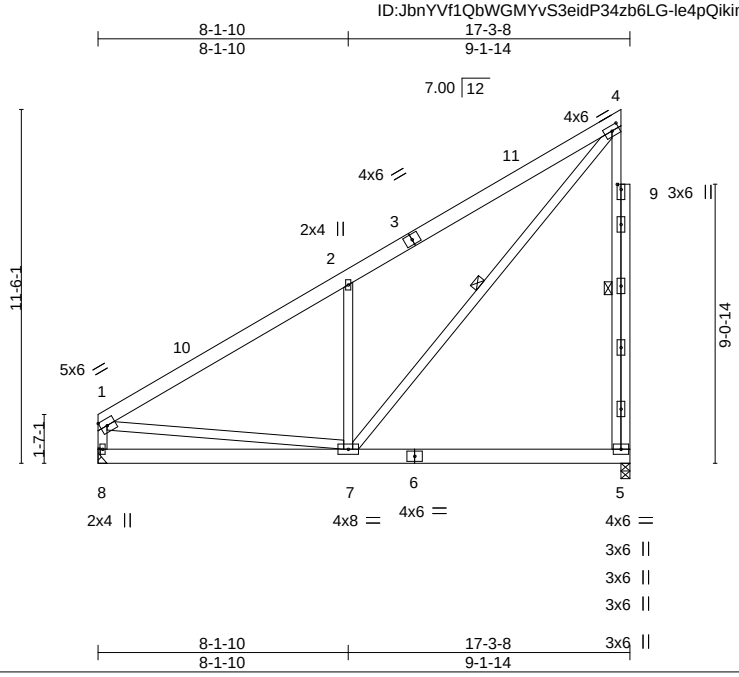

Plate Offsets (X,Y)-- [4:0-2-14,0-2-0], [9:0-2-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.04	5-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.09	5-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	5-7	>999	240	Weight: 156 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
4-5,4-7,1-8: 2x4 SP No.2

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.
WEBS 1 Row at midpt 4-5, 4-7

REACTIONS. (size) 8=Mechanical, 5=0-3-8
Max Horz 8=327(LC 9)
Max Uplift 8=-4(LC 12), 5=-147(LC 12)
Max Grav 8=678(LC 1), 5=1157(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-780/68, 2-4=-825/215, 4-5=-1075/220, 1-8=-604/68
BOT CHORD 7-8=-421/554
WEBS 2-7=-599/284, 4-7=-235/929, 1-7=0/469

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 17-1-12 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 5=147.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 461 lb down and 36 lb up at 17-1-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-8=-20, 1-4=-60
Concentrated Loads (lb)
Vert: 4=-428(F)

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	M01A	MONO TRUSS	1	1	I57917614
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:28:57 2023 Page 1
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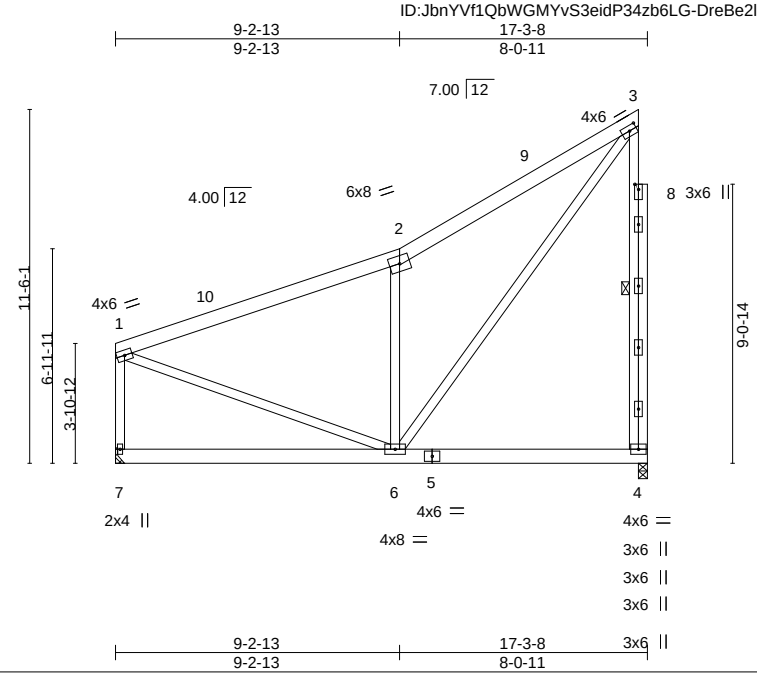

Scale = 1:74.9

Plate Offsets (X,Y)-- [3:0-2-14,0-2-0], [8:0-2-0,0-1-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.05	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.10	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.53	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	4-6	>999	240	Weight: 160 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
3-4,3-6,1-7: 2x4 SP No.2

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.
WEBS 1 Row at midpt 3-4

REACTIONS. (size) 7=Mechanical, 4=0-3-8
Max Horz 7=335(LC 9)
Max Uplift 7=-38(LC 8), 4=-134(LC 12)
Max Grav 7=678(LC 1), 4=1090(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-721/183, 3-4=-1022/213, 1-7=-596/97, 1-2=-606/61
BOT CHORD 6-7=-411/417
WEBS 3-6=-175/847, 1-6=-21/508, 2-6=-675/241

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 17-1-12 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 4=134.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 461 lb down and 54 lb up at 17-1-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-7=-20, 2-3=-60, 1-2=-60
Concentrated Loads (lb)
Vert: 3=-428(F)

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	M03G	GABLE	2	1	I57917615
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:28:58 2023 Page 1
ID:JbnYVf1QbWGMYvS3eidP34zb6LG-h1BZrOlzHSKLErf2tFOR8zCM?dYNZfj8fGbN5azOV0Z

-1-0-0 4-3-8
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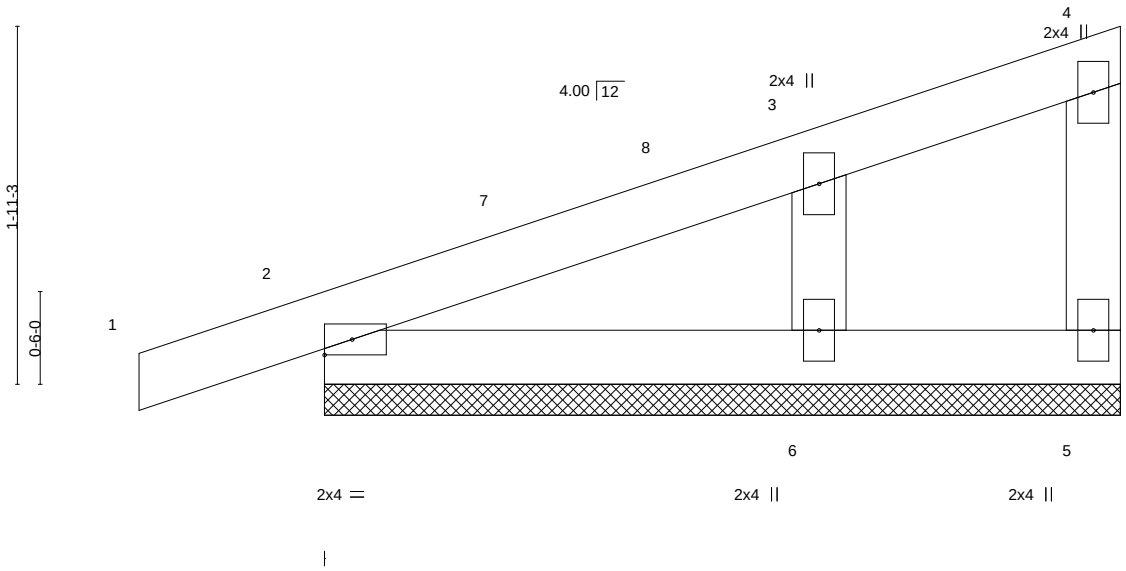

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%

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

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

REACTIONS. (size) 2=4-3-8, 5=4-3-8, 6=4-3-8
Max Horz 2=55(LC 9)
Max Uplift 2=-35(LC 8), 5=-3(LC 9), 6=-26(LC 12)
Max Grav 2=162(LC 1), 5=30(LC 1), 6=200(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 4-1-12 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 1-4-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 6.

April 21,2023

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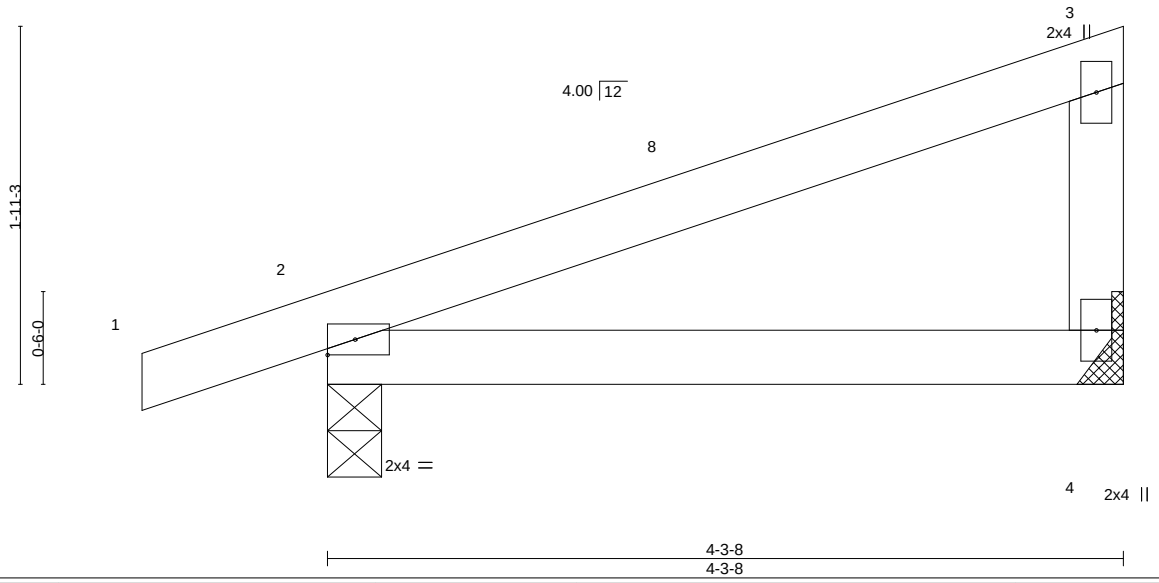
Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	M04	MONO TRUSS	4	1	I57917616
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:00 2023 Page 1
ID:JbnYVf1QbWGMYvS3eidP34zb6LG-eQJJG3nDp3b3U9pQ?gQvDOHgnQC_1Z_R7a4TASzOV0X

-1-0-0 4-3-8
1-0-0 4-3-8

Scale = 1:12.4



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.01	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.03	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		Wind(LL)	0.01	4-7	>999	240	Weight: 17 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 4=Mechanical
Max Horz 2=56(LC 11)
Max Uplift 2=-42(LC 8), 4=-17(LC 12)
Max Grav 2=233(LC 1), 4=159(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-1-12 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

April 21,2023

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111 I57917617
NC1_111-R	M05G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:02 2023 Page 1
ID:JbnYVf1QbWGMYvS3eidP34zb6LG-aoR4hlpTLgrnjSyp65TNIpNzQEtSVTckauZaELzOV0V

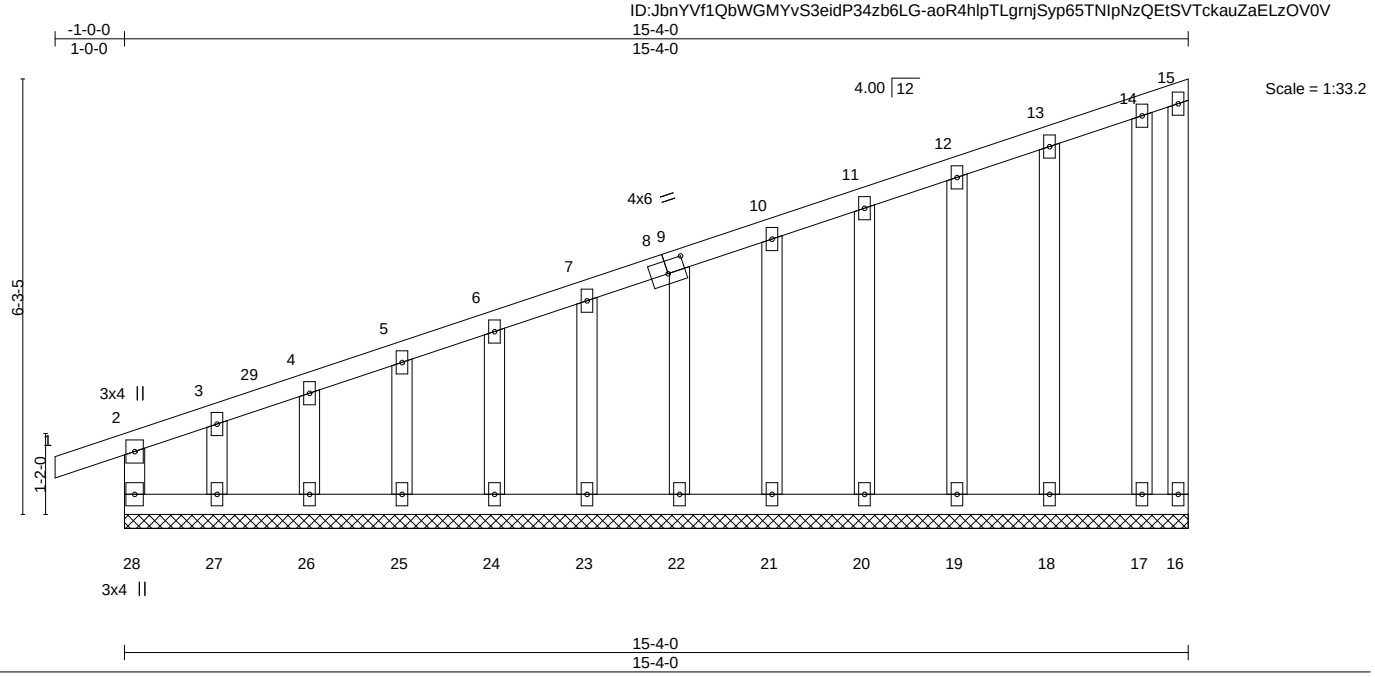

Plate Offsets (X,Y)-- [8:0-3-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.00	2	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.01	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	16	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							Weight: 112 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
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. All bearings 15-4-0.
(lb) - Max Horz 28=201(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 16, 25, 24, 23, 22, 21, 20, 19, 18, 17 except 27=-171(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 28, 16, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-292/153

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 15-2-4 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
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 25, 24, 23, 22, 21, 20, 19, 18, 17 except (jt=lb) 27=171.

April 21,2023

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Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111 I57917618
NC1_111-R	M06	MONO TRUSS	10	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:03 2023 Page 1
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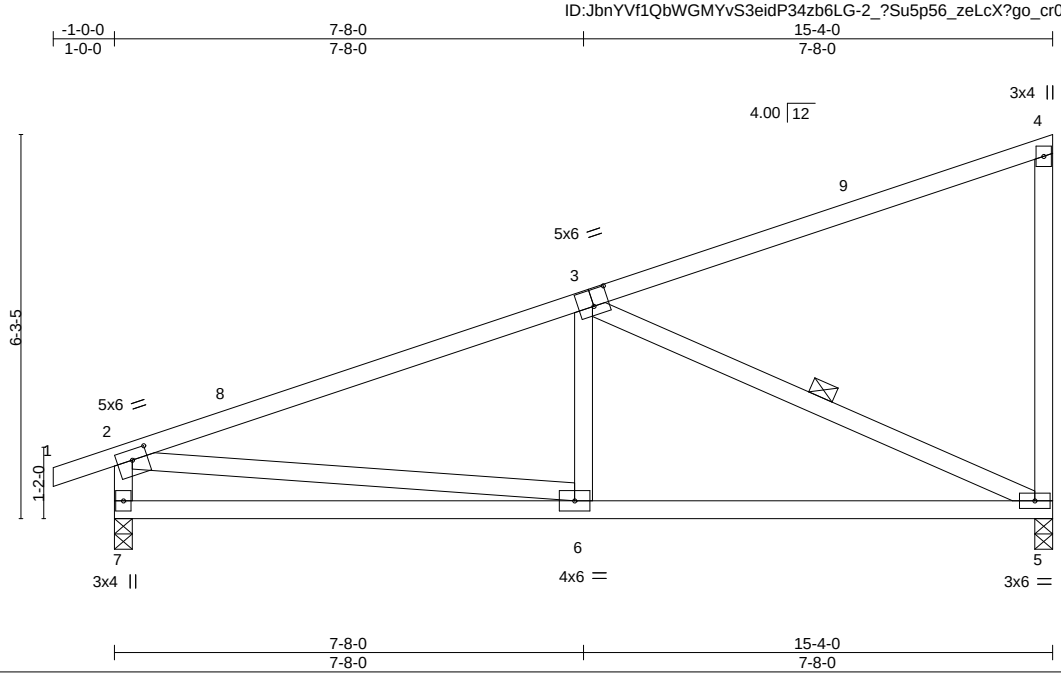

Plate Offsets (X,Y)-- [2:0-3-0,0-2-0], [3:0-3-0,0-3-4]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC	0.74	Vert(LL)	-0.08	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.60	Vert(CT)	-0.16	5-6	>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		Wind(LL)	0.02	5-6	>999	240	Weight: 85 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-5

REACTIONS. (size) 7=0-3-8, 5=0-3-8
Max Horz 7=201(LC 11)
Max Uplift 7=-69(LC 8), 5=-68(LC 12)
Max Grav 7=673(LC 1), 5=599(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-605/115, 2-3=-886/57
BOT CHORD 6-7=-257/356, 5-6=-117/772
WEBS 2-6=0/505, 3-6=0/295, 3-5=-830/123

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 15-2-4 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
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	P07G	GABLE	1	1	I57917619
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:05 2023 Page 1
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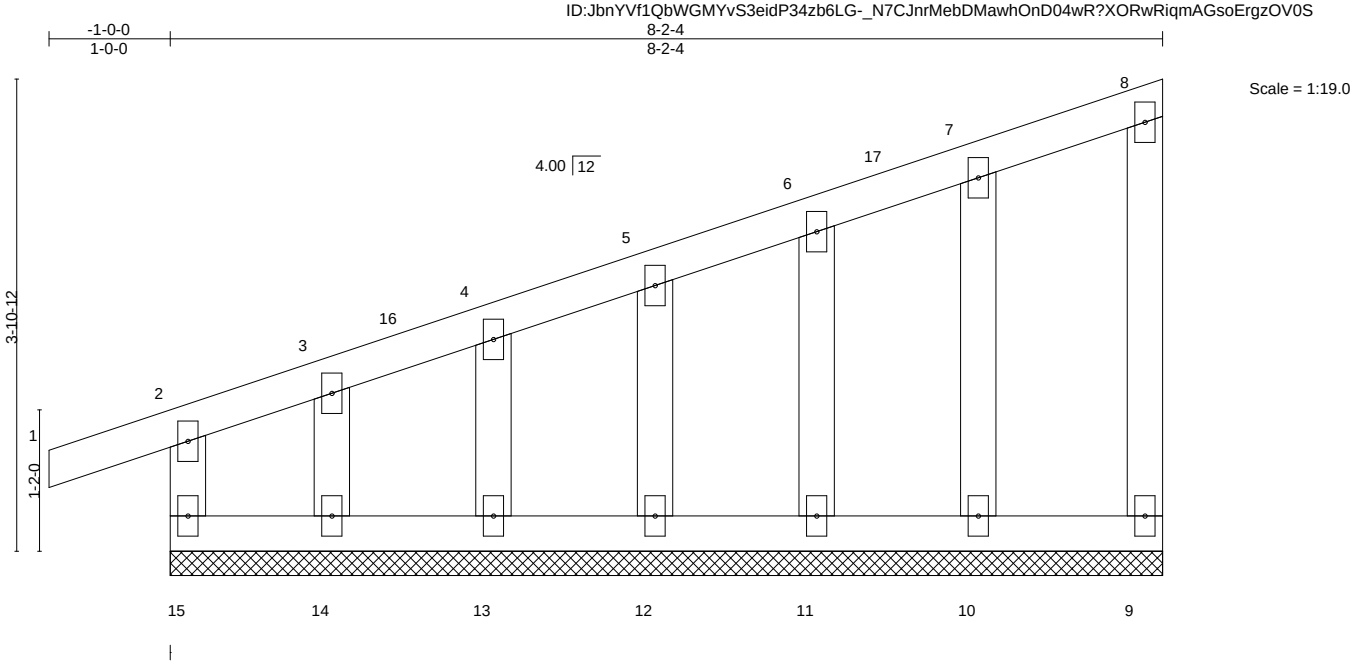

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 47 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
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. All bearings 8-2-4.
(lb) - Max Horz 15=121(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 9, 14, 13, 12, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 15, 9, 14, 13, 12, 11, 10

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 8-0-8 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 14, 13, 12, 11, 10.

April 21,2023

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	P08	MONO TRUSS	6	1	I57917620
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:07 2023 Page 1
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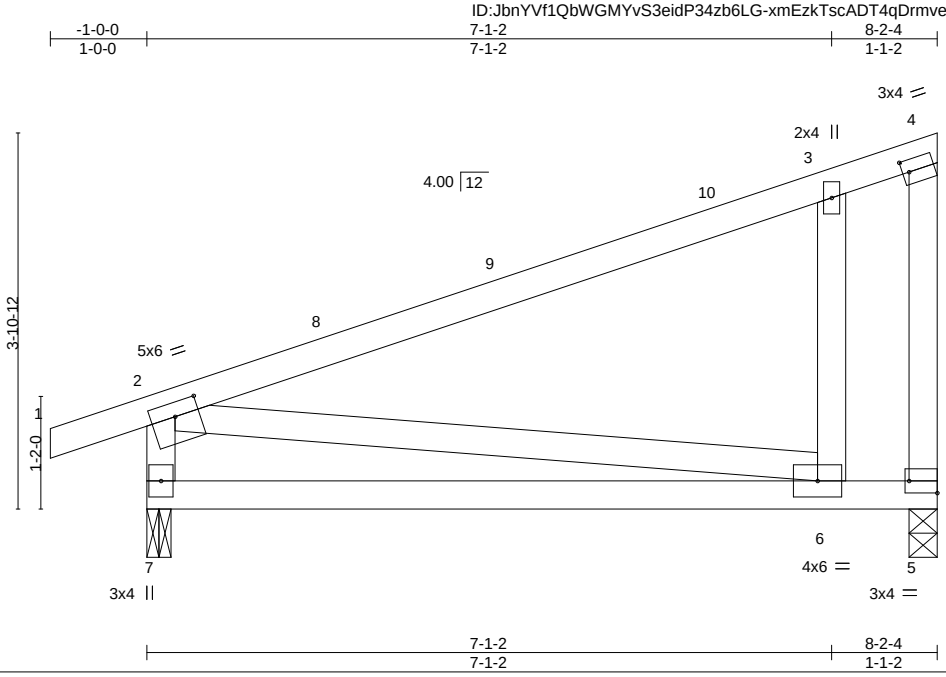

Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [4:0-0-13,0-1-8], [5:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.08	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.19	6-7	>488	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.05	6-7	>999	240	Weight: 47 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 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) 7=0-3-0, 5=0-3-8
Max Horz 7=121(LC 9)
Max Uplift 7=-52(LC 8), 5=-35(LC 8)
Max Grav 7=390(LC 1), 5=311(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-299/124
BOT CHORD 6-7=-239/358
WEBS 2-6=-262/188

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 8-0-8 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.

April 21,2023

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	P09	MONO TRUSS	3	1	I57917621
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:08 2023 Page 1
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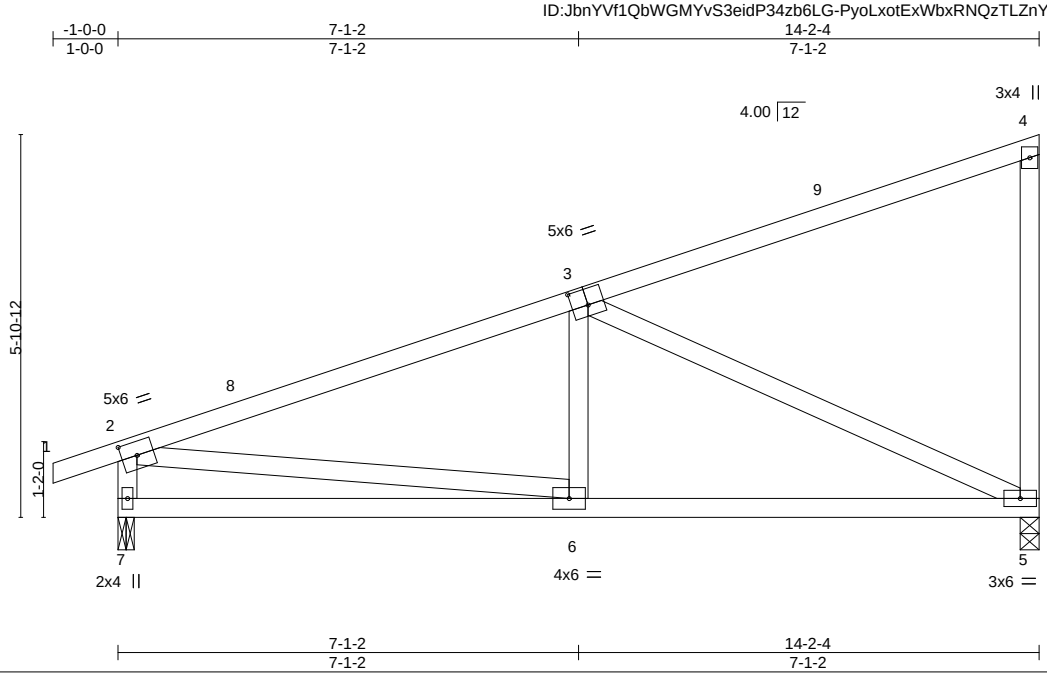

Plate Offsets (X,Y)-- [2:0-2-14,0-2-8], [3:0-3-0,0-3-0], [4:0-0-0,0-0-0], [5:0-0-0,0-0-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.06	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.12	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.02	5-6	>999	240	Weight: 79 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 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) 7=0-3-0, 5=0-3-8
Max Horz 7=188(LC 9)
Max Uplift 7=-66(LC 8), 5=-63(LC 12)
Max Grav 7=627(LC 1), 5=553(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-564/114, 2-3=-802/52
BOT CHORD 6-7=-241/320, 5-6=-115/698
WEBS 2-6=0/477, 3-6=0/268, 3-5=-752/113

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 14-0-8 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	P10G	GABLE	1	1	I57917622
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:10 2023 Page 1
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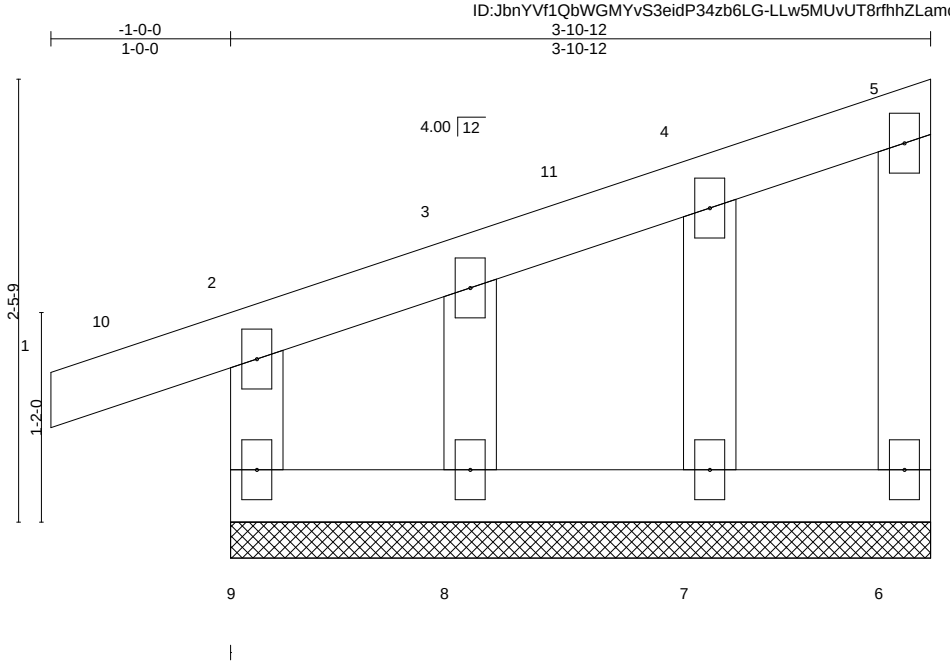

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
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. All bearings 3-10-12.
(lb) - Max Horz 9=73(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 9, 6, 8, 7
Max Grav All reactions 250 lb or less at joint(s) 9, 6, 8, 7

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-9-0 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
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6, 8, 7.

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Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	PB01G	GABLE	2	1	I57917623
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:13 2023 Page 1
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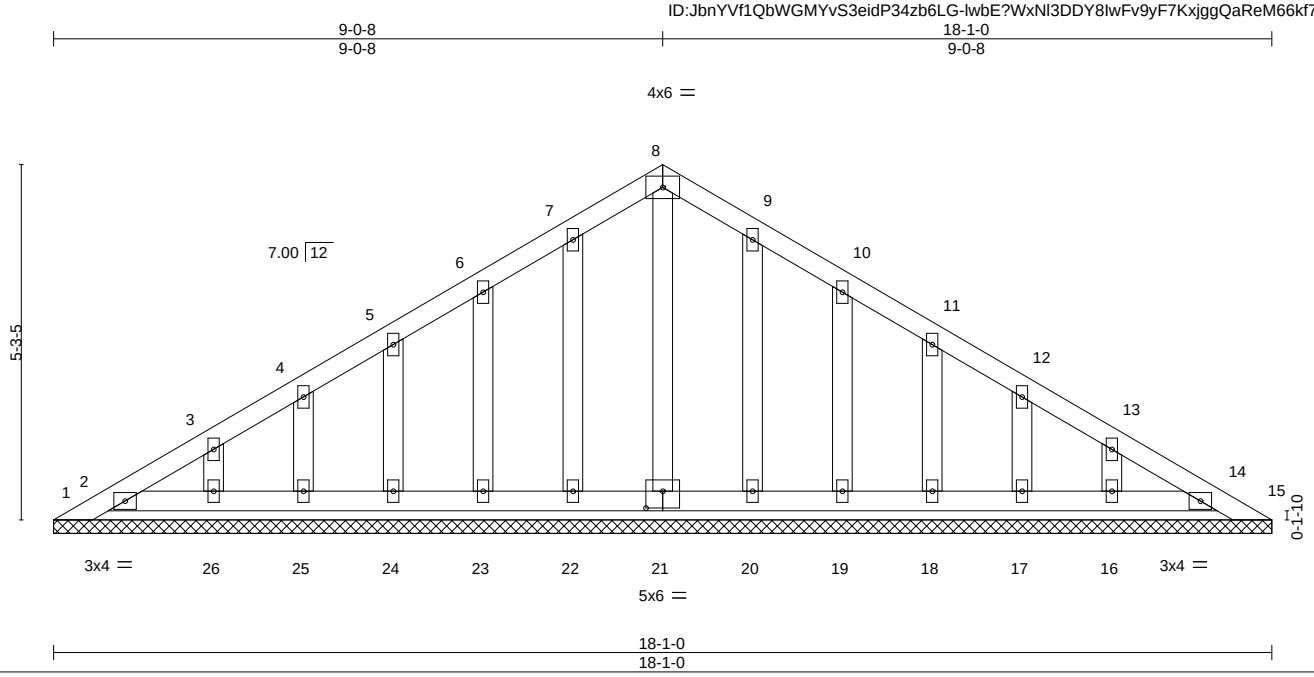

Plate Offsets (X,Y)-- [21:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 96 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. All bearings 18-1-0.
(lb) - Max Horz 1=-101(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 2, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16
Max Grav All reactions 250 lb or less at joint(s) 1, 15, 2, 21, 22, 23, 24, 25, 26, 20, 19, 18, 14, 17, 16

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-8 to 3-3-8, Exterior(2) 3-3-8 to 9-0-8, Corner(3) 9-0-8 to 12-0-8, Exterior(2) 12-0-8 to 17-9-8 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
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 2, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	PB02	GABLE	14	1	I57917624
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:16 2023 Page 1
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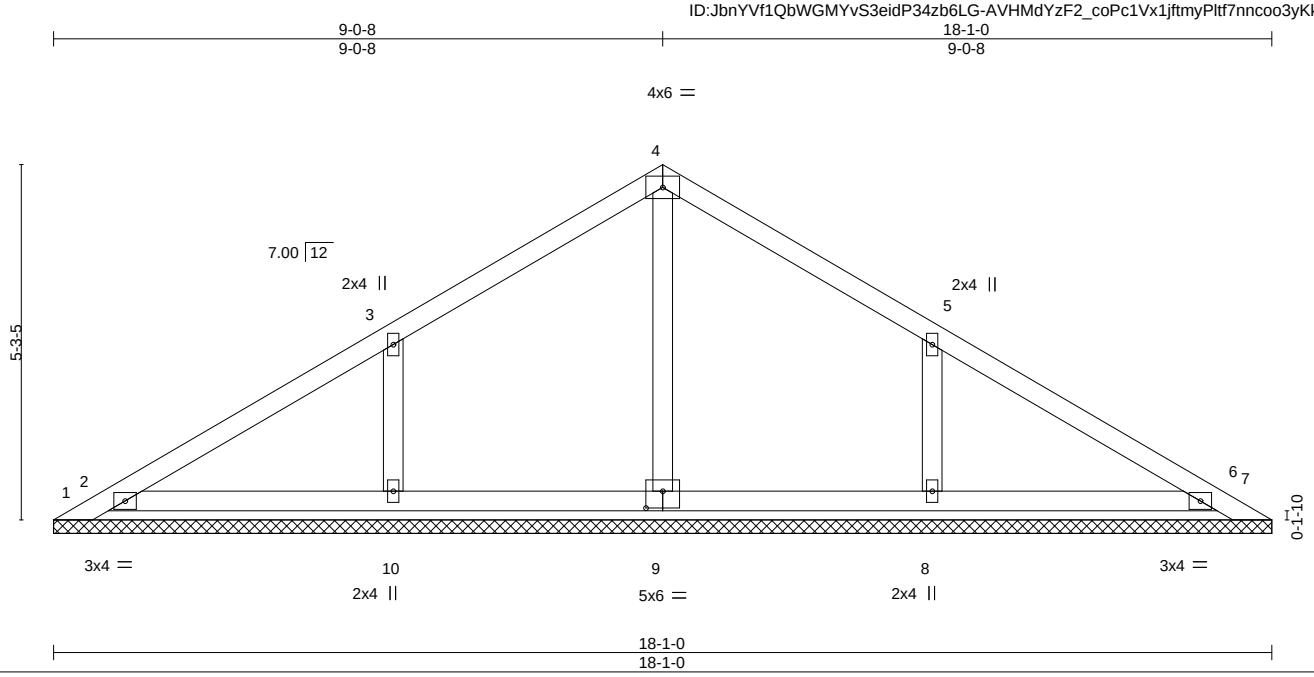

Plate Offsets (X,Y)-- [9:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 69 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. All bearings 18-1-0.
(lb) - Max Horz 1=-101(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 8, 6 except 1=-183(LC 19), 7=-143(LC 20)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 2=368(LC 19), 9=256(LC 1), 10=366(LC 19), 8=365(LC 20), 6=357(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-274/132, 5-8=-274/131

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-8 to 3-3-8, Exterior(2) 3-3-8 to 9-0-8, Corner(3) 9-0-8 to 12-0-8, Exterior(2) 12-0-8 to 17-9-8 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
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 8, 6 except (jt=lb) 1=183, 7=143.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	PB03	GABLE	5	1	I57917625
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:18 2023 Page 1
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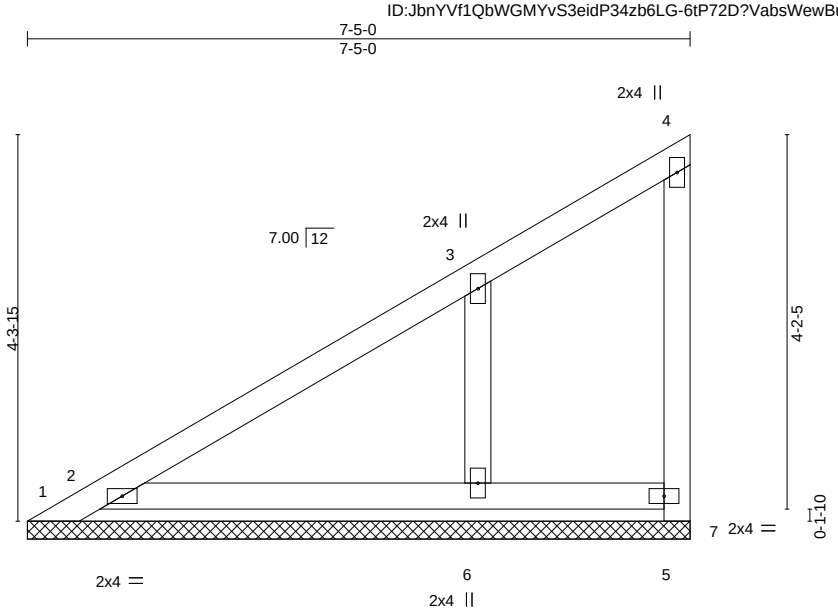

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 31 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
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. All bearings 7-5-0.
(lb) - Max Horz 1=122(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 1=-182(LC 19), 2=-109(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=368(LC 19), 6=313(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-285/329

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-8 to 3-3-8, Exterior(2) 3-3-8 to 7-3-4 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
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 4-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 1, 2, 5, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 1=182, 2=109.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

April 21,2023

ENGINEERING BY
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Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V08	GABLE	1	1	I57917626
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:19 2023 Page 1
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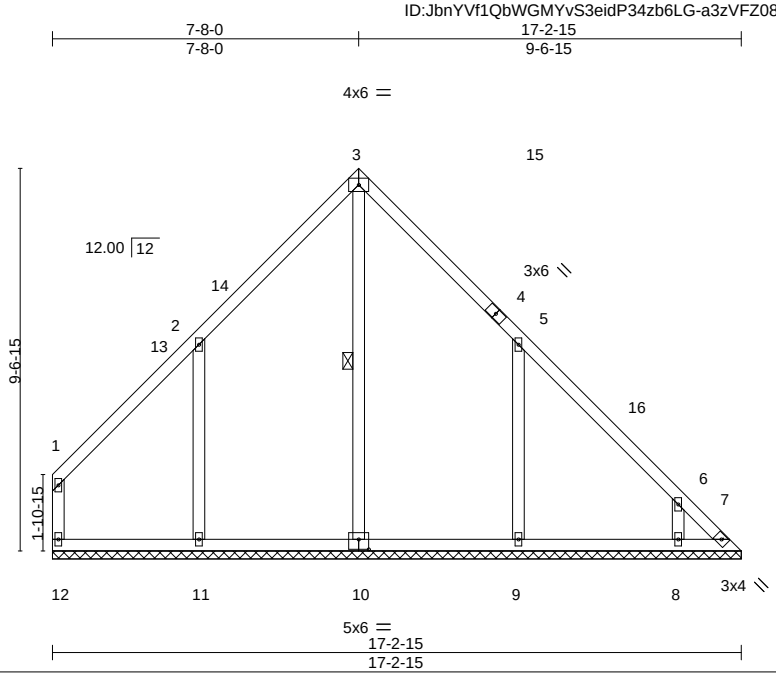

Plate Offsets (X,Y)-- [10:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.3
BOT CHORD	2x4 SP No.3
WEBS	2x4 SP No.3
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.
WEBS	1 Row at midpt 3-10

REACTIONS. All bearings 17-2-15.
(lb) - Max Horz 12=-200(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 12, 10 except 11=-178(LC 12), 9=-169(LC 13), 8=-121(LC 13), 7=-164(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 12, 7 except 10=497(LC 21), 11=436(LC 19), 9=437(LC 20), 8=270(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-265/239, 3-5=-265/268, 6-7=-262/240
WEBS 3-10=-292/172, 2-11=-294/220, 5-9=-296/219

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-8-0, Exterior(2) 7-8-0 to 10-8-0, Interior(1) 10-8-0 to 16-10-12 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) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 10 except (jt=lb) 11=178, 9=169, 8=121, 7=164.

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V09	GABLE	1	1	I57917627
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:20 2023 Page 1
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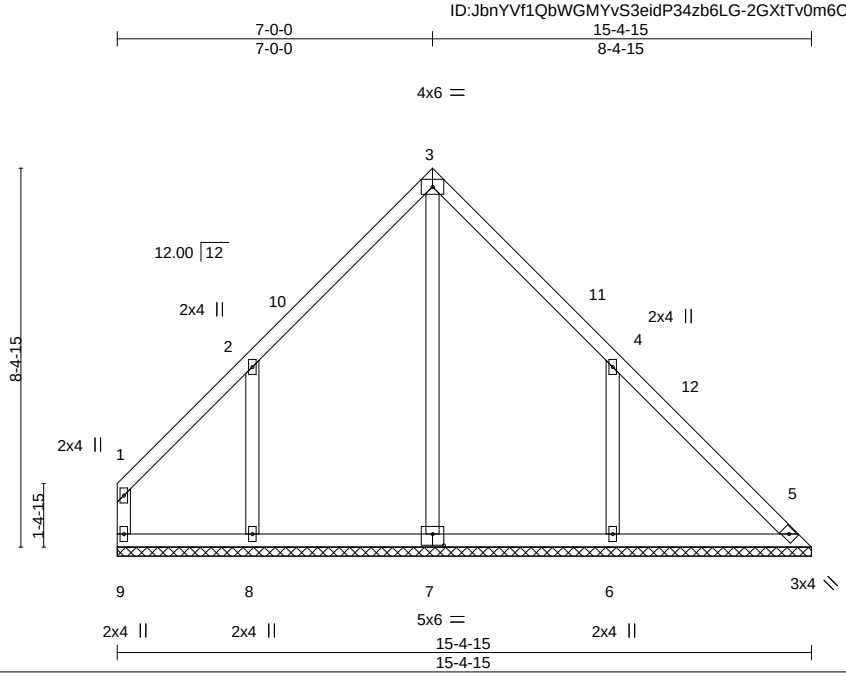

Plate Offsets (X,Y)-- [7:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 80 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.3
BOT CHORD	2x4 SP No.3
WEBS	2x4 SP No.3
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. All bearings 15-4-15.
(lb) - Max Horz 9=-171(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 9, 5 except 8=-174(LC 12), 6=-185(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 9, 5 except 7=464(LC 21), 8=415(LC 19), 6=470(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-250/104, 2-8=-278/208, 4-6=-319/230

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-0-0, Interior(1) 3-0-0 to 7-0-0, Exterior(2) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 15-0-12 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 5 except (jt=lb) 8=174, 6=185.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V10	GABLE	1	1	I57917628
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:22 2023 Page 1
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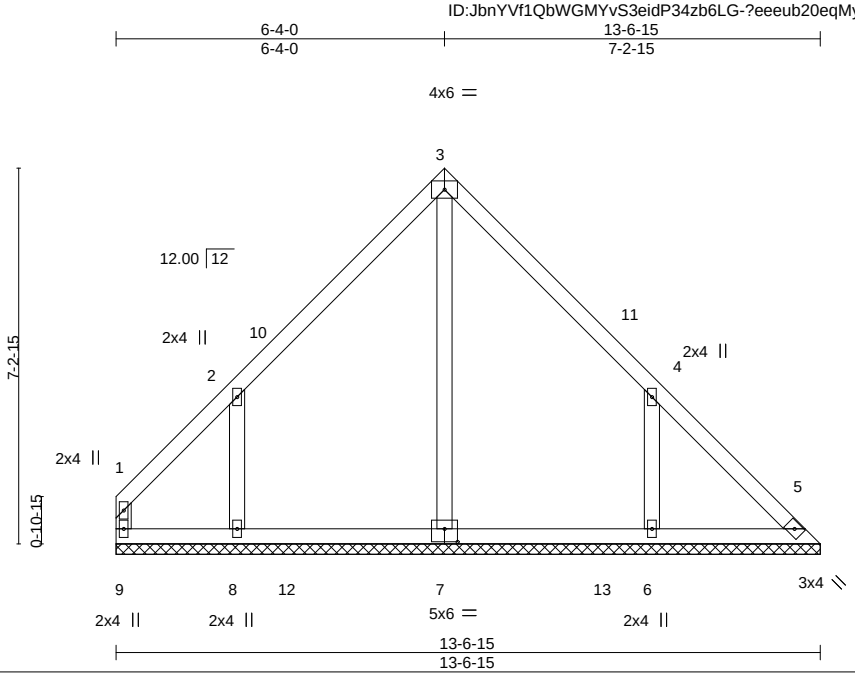

Plate Offsets (X,Y)-- [7:0-3-0,0-3-0]

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 67 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.3
BOT CHORD	2x4 SP No.3
WEBS	2x4 SP No.3
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. All bearings 13-6-15.
(lb) - Max Horz 9=-143(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 9, 5 except 8=-174(LC 12), 6=-160(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 9, 5 except 7=410(LC 21), 8=370(LC 19), 6=384(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-265/201, 4-6=-278/201

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-4-0, Exterior(2) 6-4-0 to 9-4-0, Interior(1) 9-4-0 to 13-2-12 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 5 except (jt=lb) 8=174, 6=160.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V11	GABLE	1	1	I57917629
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:23 2023 Page 1
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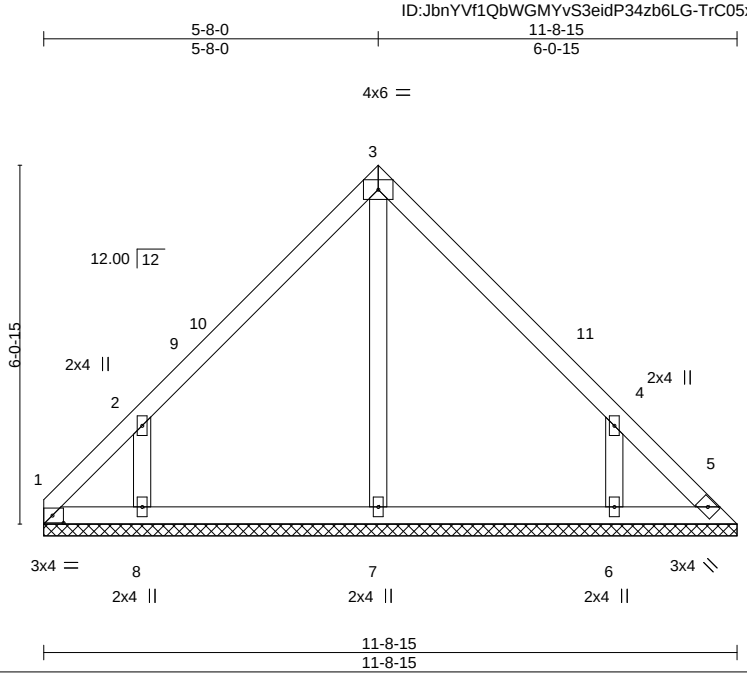

Plate Offsets (X,Y)-- [1:0-2-4,0-1-8]

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 55 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
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. All bearings 11-8-15.
(lb) - Max Horz 1=113(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-151(LC 12), 6=-148(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=318(LC 19), 6=317(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-261/194, 4-6=-260/190

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-8-0, Exterior(2) 5-8-0 to 8-8-0, Interior(1) 8-8-0 to 11-4-12 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=151, 6=148.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V12	GABLE	1	1	I57917630
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:25 2023 Page 1
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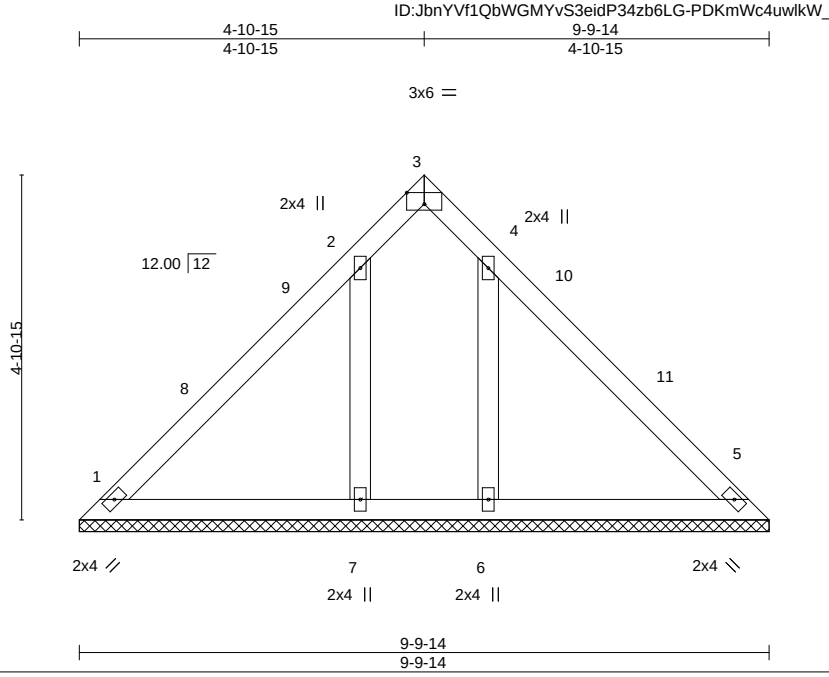

Plate Offsets (X,Y)-- [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 44 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
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. All bearings 9-9-14.
(lb) - Max Horz 1=-90(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 6=-134(LC 13), 7=-138(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=316(LC 20), 7=321(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-7=-250/163

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 4-10-15, Exterior(2) 4-10-15 to 7-10-15, Interior(1) 7-10-15 to 9-5-10 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 6 and 138 lb uplift at joint 7.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V13	GABLE	1	1	I57917631
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:26 2023 Page 1
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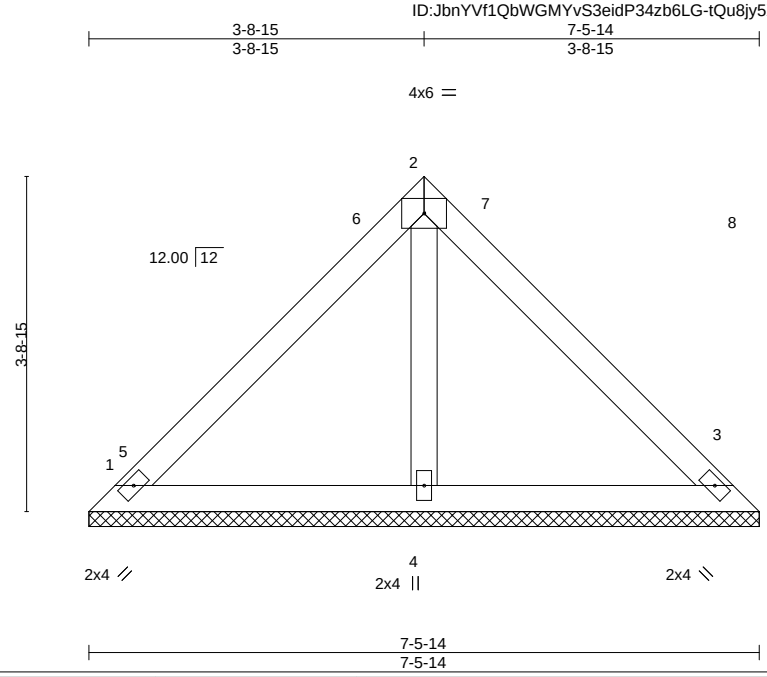

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 30 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
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=7-5-14, 3=7-5-14, 4=7-5-14
Max Horz 1=-67(LC 10)
Max Uplift 1=-15(LC 13), 3=-15(LC 13)
Max Grav 1=151(LC 1), 3=151(LC 1), 4=242(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 3-8-15, Exterior(2) 3-8-15 to 6-8-15, Interior(1) 6-8-15 to 7-1-10 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1 and 15 lb uplift at joint 3.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V14	GABLE	1	1	I57917632
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:27 2023 Page 1
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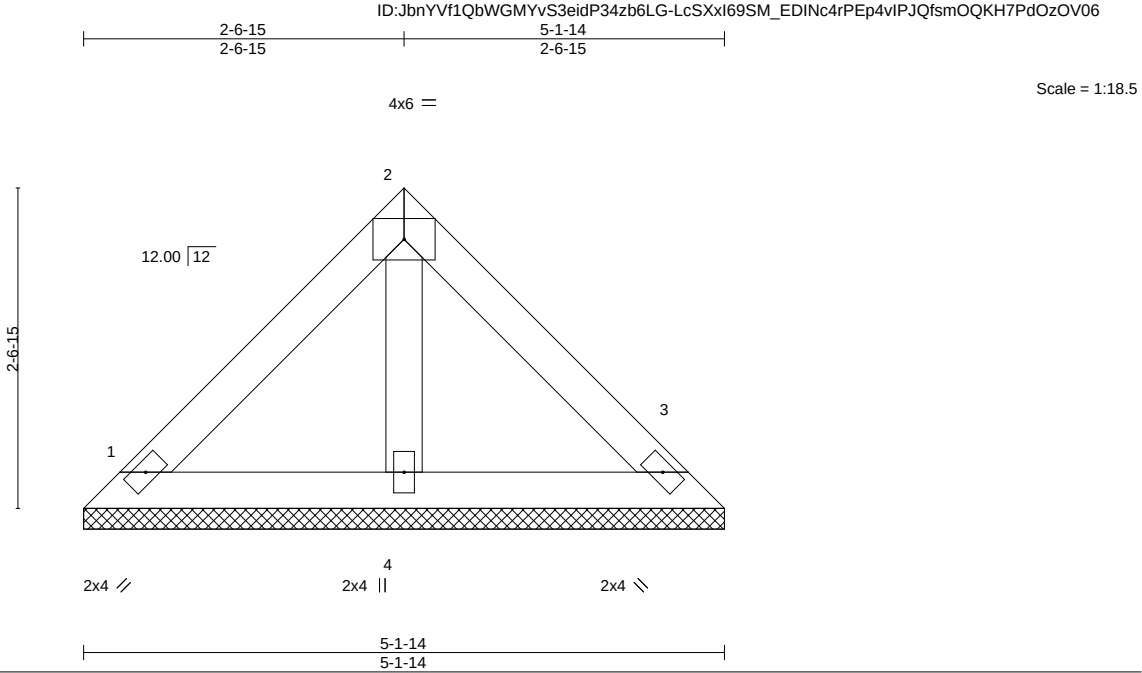

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 20 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-1-14, 3=5-1-14, 4=5-1-14
Max Horz 1=-44(LC 10)
Max Uplift 1=-15(LC 13), 3=-15(LC 13)
Max Grav 1=106(LC 1), 3=106(LC 1), 4=143(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1 and 15 lb uplift at joint 3.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V15	GABLE	1	1	I57917633
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:28 2023 Page 1
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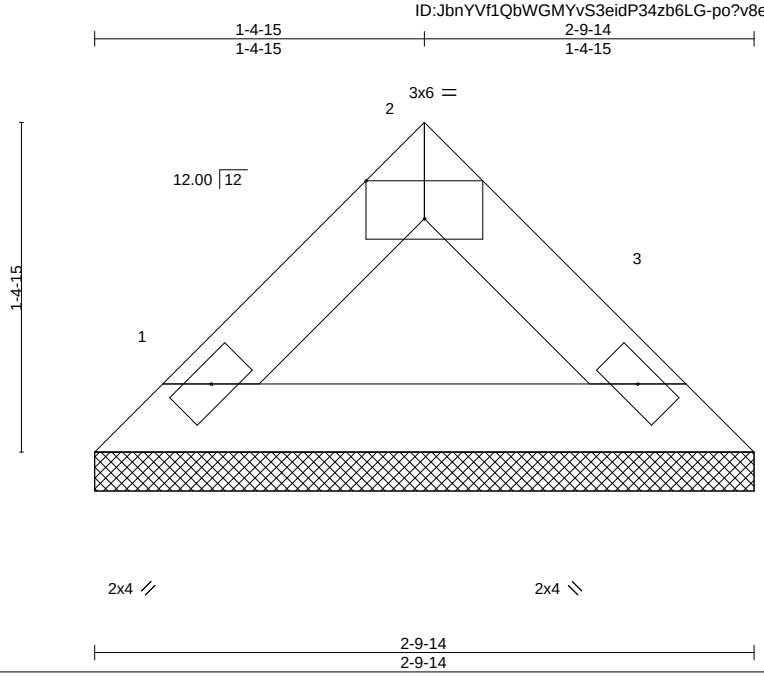

Plate Offsets (X,Y)-- [2:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 9 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-9-14, 3=2-9-14
Max Horz 1=-21(LC 8)
Max Grav 1=85(LC 1), 3=85(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V16	VALLEY	1	1	I57917634
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:30 2023 Page 1
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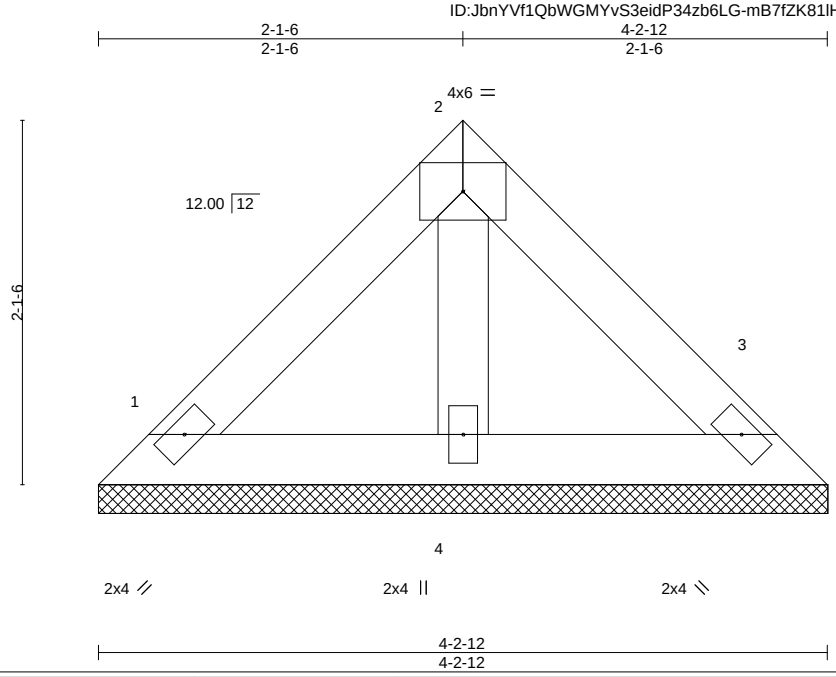

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-2-13, 3=4-2-13, 4=4-2-13
Max Horz 1=-35(LC 10)
Max Uplift 1=-12(LC 13), 3=-12(LC 13)
Max Grav 1=84(LC 1), 3=84(LC 1), 4=114(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1 and 12 lb uplift at joint 3.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V17G	GABLE	1	1	I57917635
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:31 2023 Page 1
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9-5-10
9-5-10

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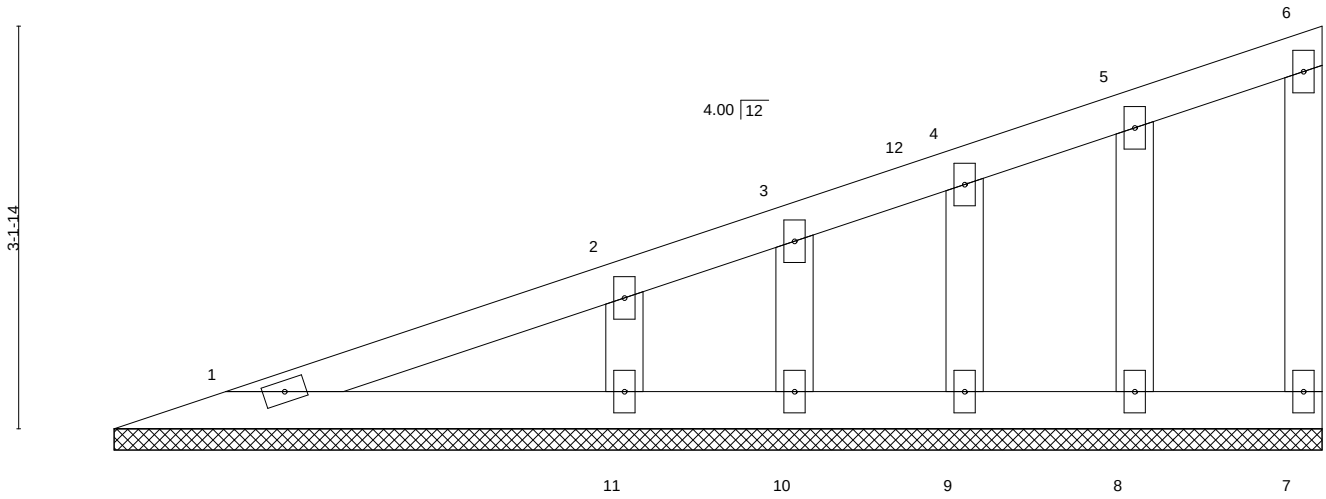

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 40 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
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. All bearings 9-5-10.
(lb) - Max Horz 1=94(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 7, 11, 10, 9, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 9, 8 except 11=256(LC 1)

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-10-13 to 4-0-0, Exterior(2) 4-0-0 to 9-3-14 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 1-4-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 11, 10, 9, 8.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V18	GABLE	1	1	I57917636
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:32 2023 Page 1

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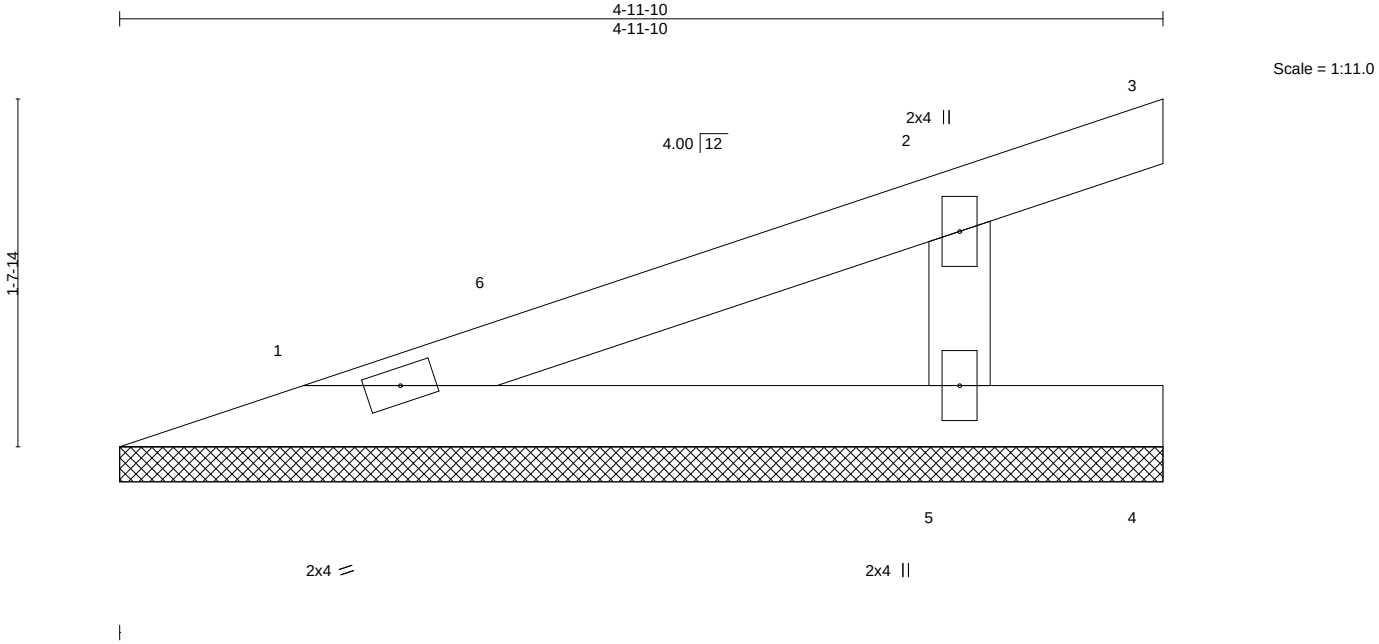

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 15 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 1=4-11-10, 3=4-11-10, 4=4-11-10, 5=4-11-10
Max Horz 1=42(LC 8)
Max Uplift 3=-28(LC 1), 4=-20(LC 3), 5=-33(LC 8)
Max Grav 1=100(LC 1), 3=10(LC 8), 5=263(LC 1)

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-10-13 to 4-0-0, Exterior(2) 4-0-0 to 4-11-10 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 4-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 5.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V19	GABLE	1	1	I57917637
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:33 2023 Page 1

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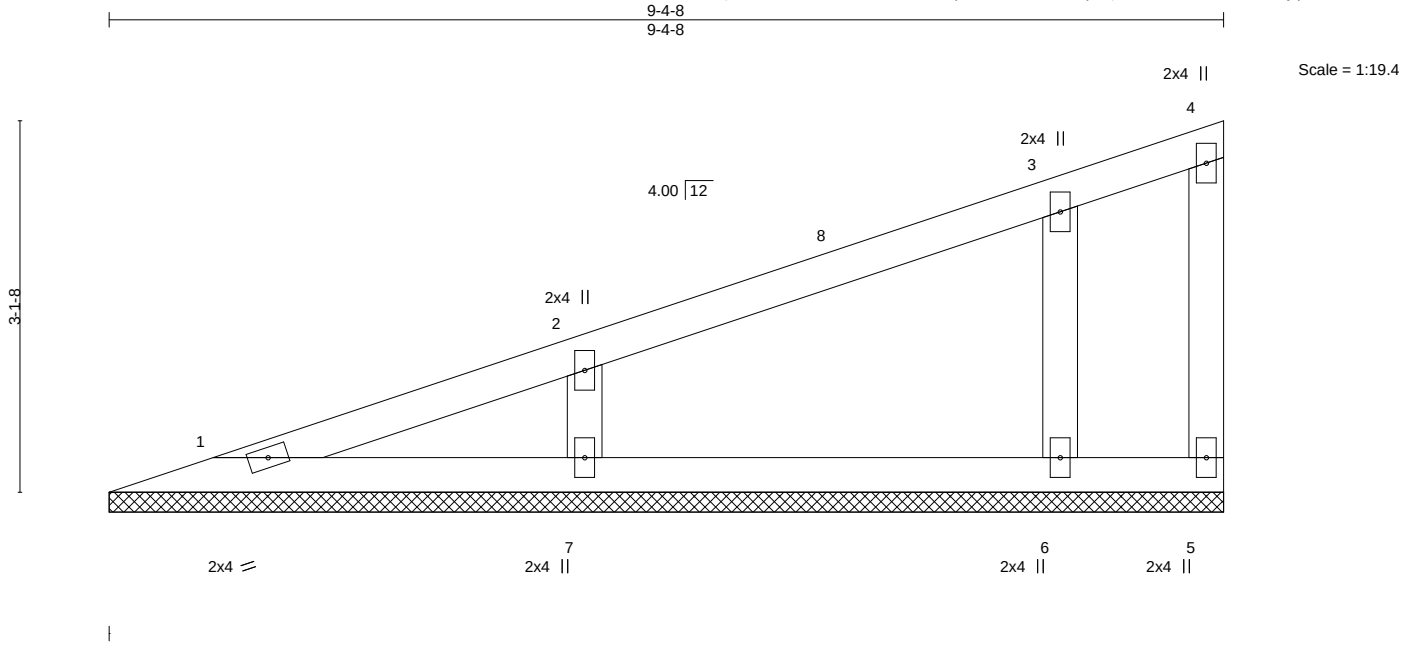

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 35 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.3
BOT CHORD	2x4 SP No.3
WEBS	2x4 SP No.3
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. All bearings 9-4-8.

(lb) - Max Horz 1=93(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 5, 7, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=326(LC 1), 6=274(LC 1)

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-10-13 to 4-0-0, Exterior(2) 4-0-0 to 9-2-12 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 4-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7, 6.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V20	GABLE	1	1	I57917638
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:34 2023 Page 1
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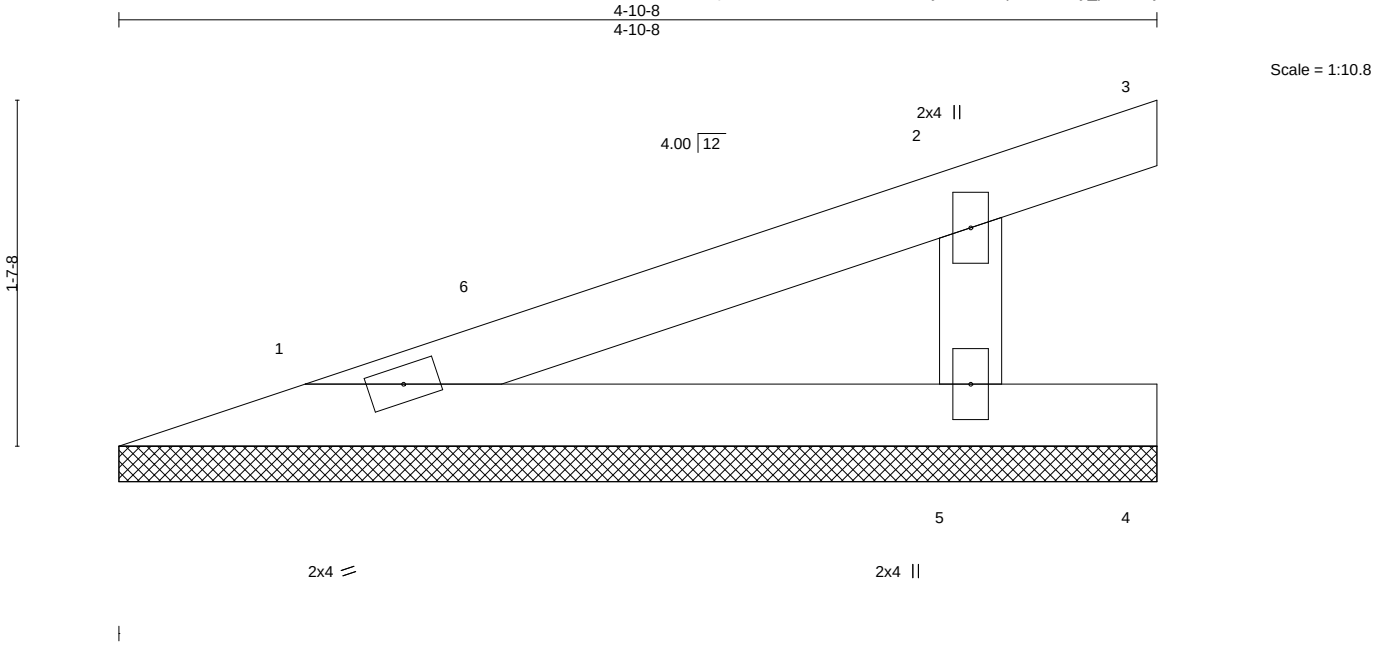

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 15 lb	FT = 20%

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

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

REACTIONS. (size) 1=4-10-8, 3=4-10-8, 4=4-10-8, 5=4-10-8
Max Horz 1=41(LC 8)
Max Uplift 3=-38(LC 1), 4=-26(LC 3), 5=-34(LC 8)
Max Grav 1=100(LC 1), 3=14(LC 8), 5=269(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-10-13 to 4-0-0, Exterior(2) 4-0-0 to 4-10-8 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 4-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 5.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V21	GABLE	1	1	I57917639
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:35 2023 Page 1
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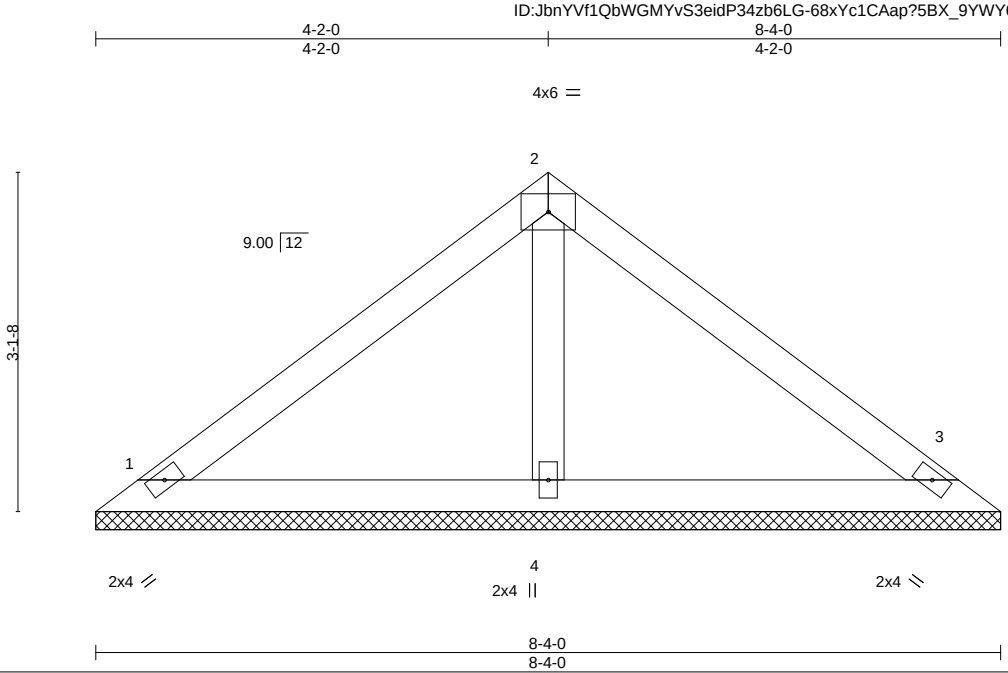

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 30 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
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=8-4-0, 3=8-4-0, 4=8-4-0
Max Horz 1=55(LC 11)
Max Uplift 1=-12(LC 12), 3=-20(LC 13)
Max Grav 1=151(LC 1), 3=151(LC 1), 4=295(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-5-4 to 3-5-4, Exterior(2) 3-5-4 to 4-2-0, Corner(3) 4-2-0 to 7-2-0, Exterior(2) 7-2-0 to 7-10-12 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V22	GABLE	1	1	I57917640
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:37 2023 Page 1
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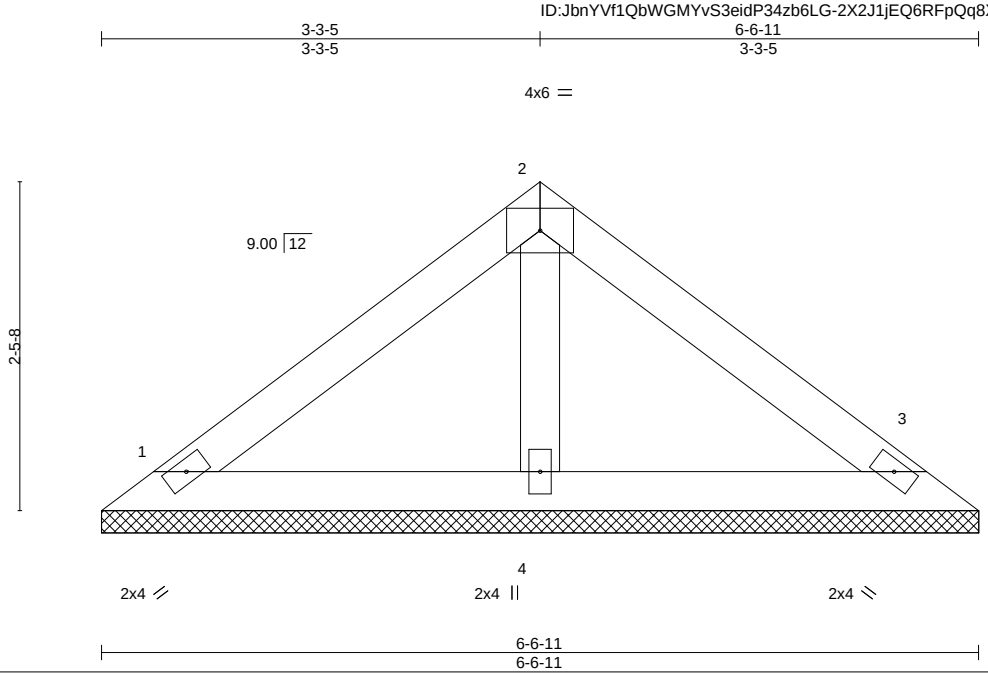

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 23 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
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=6-6-11, 3=6-6-11, 4=6-6-11
Max Horz 1=42(LC 11)
Max Uplift 1=-15(LC 12), 3=-20(LC 13)
Max Grav 1=125(LC 1), 3=125(LC 1), 4=204(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V23	GABLE	1	1	I57917641
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:38 2023 Page 1
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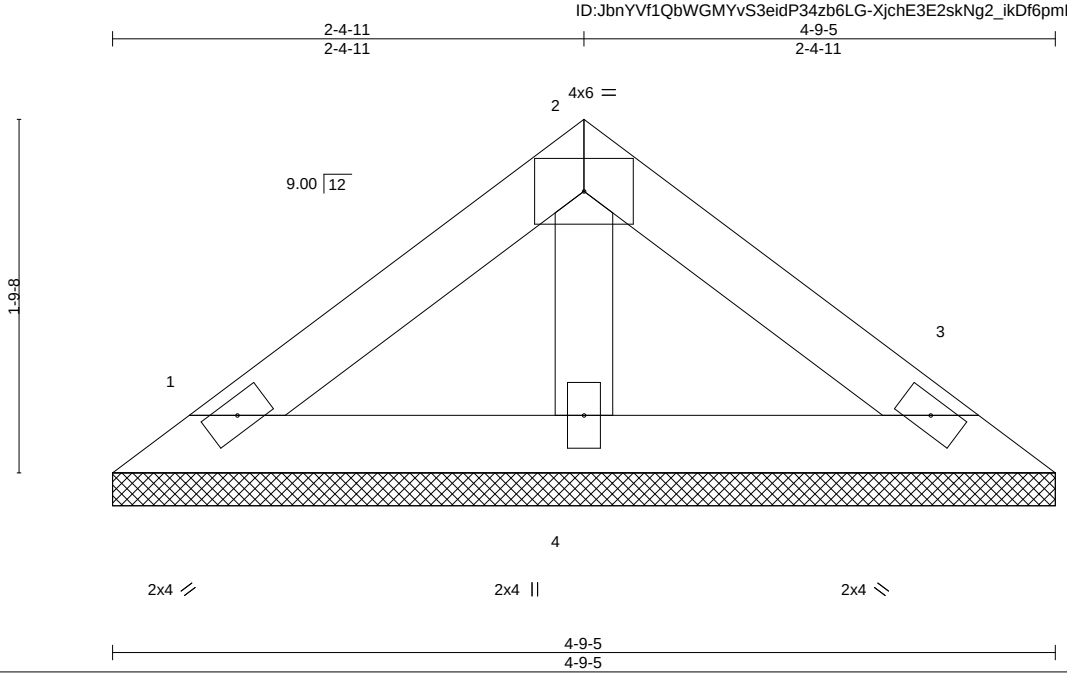

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-9-5, 3=4-9-5, 4=4-9-5
Max Horz 1=29(LC 11)
Max Uplift 1=-10(LC 12), 3=-14(LC 13)
Max Grav 1=86(LC 1), 3=86(LC 1), 4=140(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

April 21,2023

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

Job	Truss	Truss Type	Qty	Ply	Caruso-Tillery1:OYLNC1 111
NC1_111-R	V24	GABLE	1	1	I57917642
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 21 12:29:39 2023 Page 1
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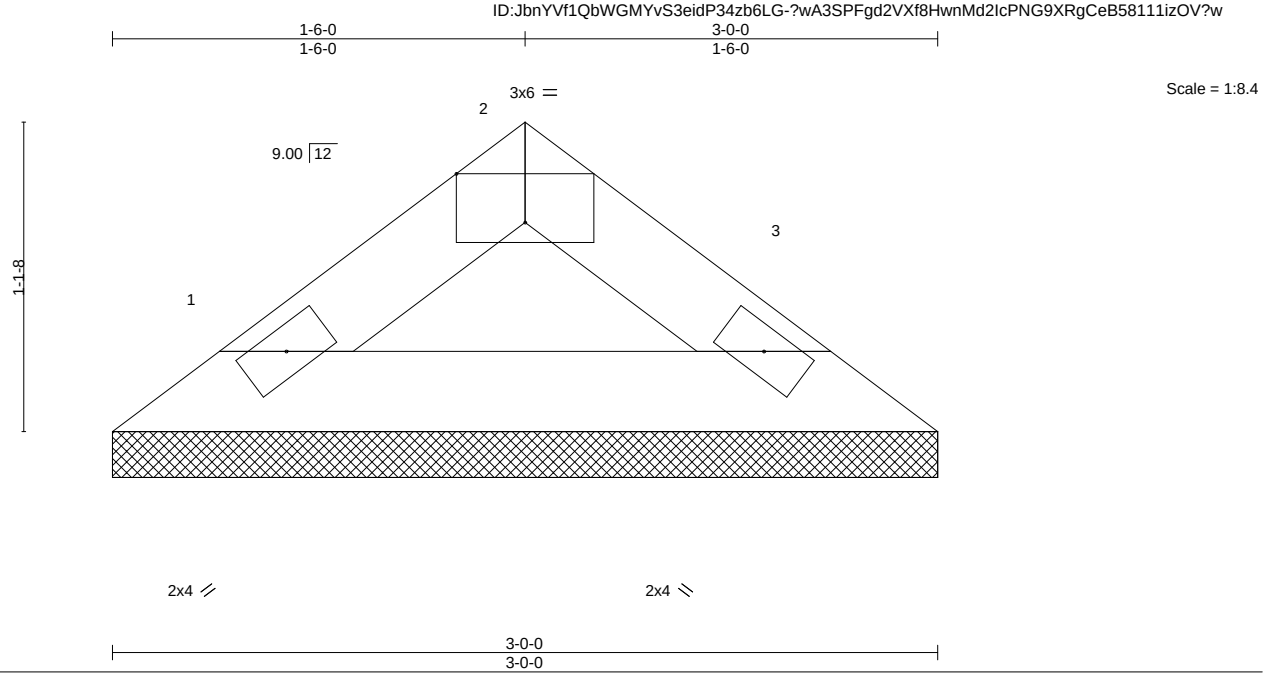

Plate Offsets (X,Y)-- [2:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 9 lb	FT = 20%

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

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

REACTIONS. (size) 1=3-0-0, 3=3-0-0
Max Horz 1=16(LC 9)
Max Uplift 1=-2(LC 12), 3=-2(LC 13)
Max Grav 1=85(LC 1), 3=85(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

April 21,2023

ENGINEERING BY TRENCO
A MiTek Affiliate
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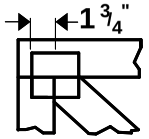
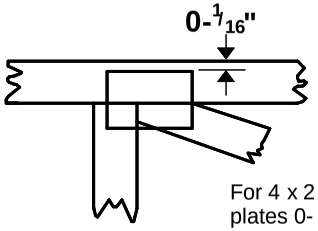
Symbols

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.

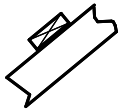
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

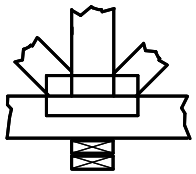
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

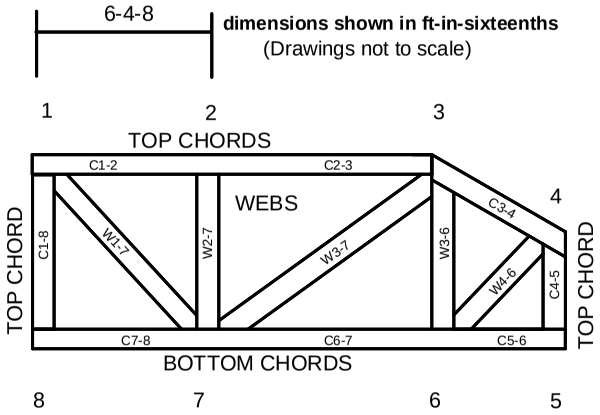


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & 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-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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. 5/19/2020

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.