ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 21104371
WAG-11

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by The Building Center.

Pages or sheets covered by this seal: I48568121 thru I48568151

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844

October 29,2021

Sevier, Scott

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	WAG-11
21104371	A1	COMMON	1	1	I48568121
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:36:50 2021 Page 1
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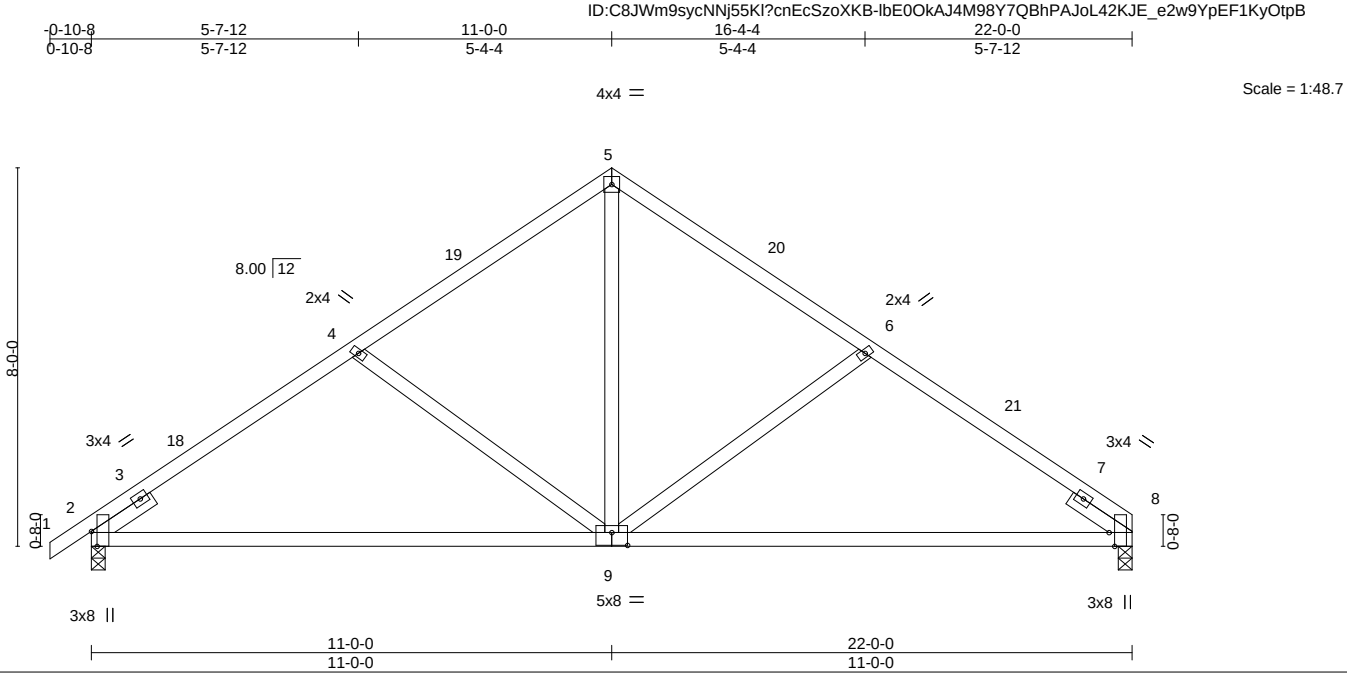

Plate Offsets (X,Y)-- [2:0-3-13,Edge], [8:0-3-8,Edge], [9:0-4-0,0-3-4]

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	0.33	Vert(LL)	-0.20	9-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.40	9-12	>653	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 109 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=156(LC 7)
Max Uplift 8=-72(LC 11), 2=-87(LC 10)
Max Grav 8=879(LC 1), 2=934(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1117/152, 4-5=-900/141, 5-6=-901/142, 6-8=-1101/155
BOT CHORD 2-9=-134/912, 8-9=-58/916
WEBS 5-9=-37/626, 6-9=-332/175, 4-9=-328/174

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2) 8-0-0 to 14-0-0, Interior(1) 14-0-0 to 19-0-0 , Exterior(2) 19-0-0 to 22-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 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) 8, 2.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	A1GR	COMMON GIRDER	1	3	I48568122
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:36:52 2021 Page 1
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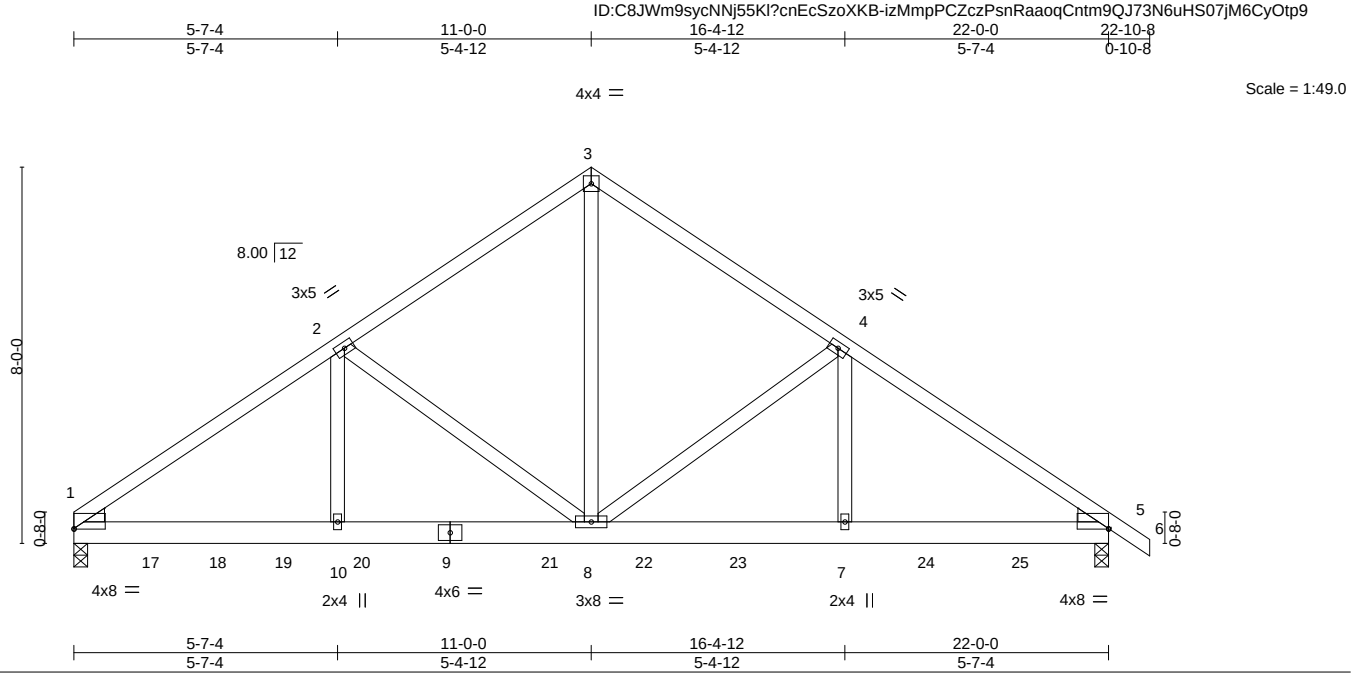

Plate Offsets (X,Y)-- [1:0-0-0,0-0-2], [5:0-0-0,0-0-2]

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)	-0.06	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.11	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 404 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=-156(LC 4)
Max Uplift 1=-209(LC 8), 5=-557(LC 9)
Max Grav 1=4471(LC 1), 5=4106(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5952/603, 2-3=-4016/570, 3-4=-4015/572, 4-5=-5704/758
BOT CHORD 1-10=-518/4873, 8-10=-518/4873, 7-8=-557/4663, 5-7=-557/4663
WEBS 3-8=-530/4032, 4-8=-1758/368, 4-7=-210/1672, 2-8=-2019/200, 2-10=-32/1958

NOTES-
1) 3-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
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=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 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) 1=209, 5=557.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 616 lb down at 1-0-8, 616 lb down at 3-0-8, 615 lb down and 110 lb up at 4-5-4, 615 lb down and 110 lb up at 6-1-4, 615 lb down and 110 lb up at 8-1-4, 615 lb down and 110 lb up at 10-1-4, 615 lb down and 110 lb up at 12-1-4, 615 lb down and 110 lb up at 14-1-4, 615 lb down and 110 lb up at 16-1-4, and 615 lb down and 110 lb up at 18-1-4, and 615 lb down and 110 lb up at 20-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-6=-60, 11-14=-20
   Concentrated Loads (lb)
   Vert: 9=-615(F) 7=-615(F) 17=-616(F) 18=-616(F) 19=-615(F) 20=-615(F) 21=-615(F) 22=-615(F) 23=-615(F) 24=-615(F) 25=-615(F)

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	AGE	COMMON SUPPORTED GAB	1	1	I48568123
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:36:53 2021 Page 1
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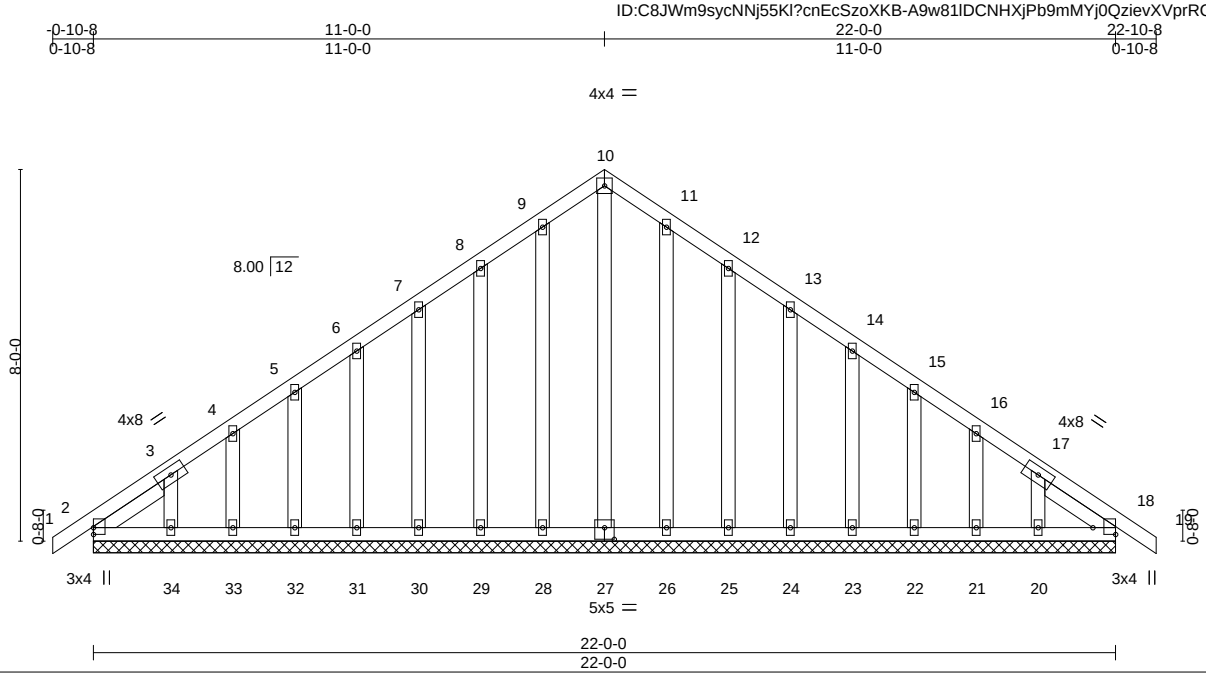

Plate Offsets (X,Y)-- [18:Edge,0-5-14], [27:0-2-8,0-3-0]

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	0.05	Vert(LL)	-0.00	18	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	18	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 173 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-10-2, Right 2x4 SP No.3 1-10-2

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 22-0-0.
(lb) - Max Horz 2=-160(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 20, 18
Max Grav All reactions 250 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 20, 18

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=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 8-0-0, Corner(3) 8-0-0 to 14-0-0, Exterior(2) 14-0-0 to 19-10-8, Corner(3) 19-10-8 to 22-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 28, 29, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 20, 18.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	C	ATTIC	2	1	I48568124
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:36:56 2021 Page 1
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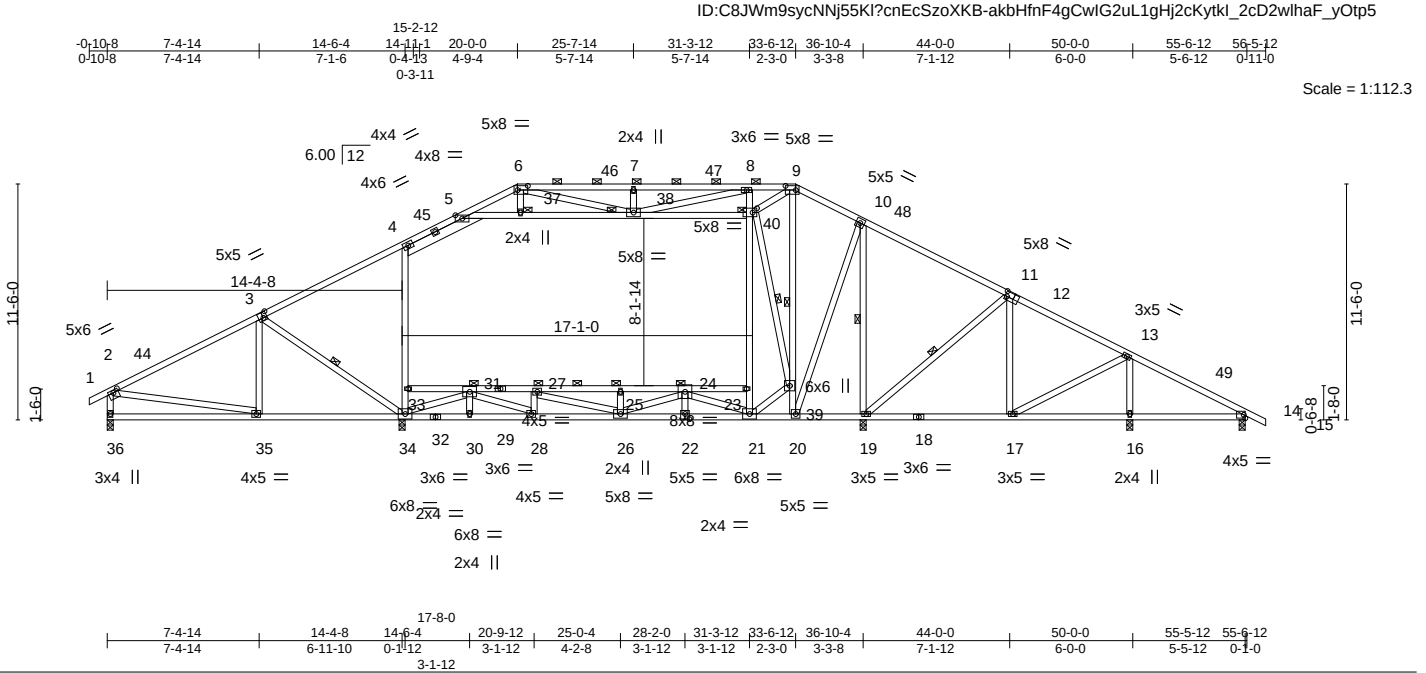

Plate Offsets (X,Y)-- [2:0-3-0,0-1-8], [3:0-2-4,0-3-4], [6:0-6-0,0-2-8], [9:0-6-0,0-2-8], [12:0-1-0,0-3-0], [22:0-2-8,0-3-0], [40:0-2-8,0-2-8]

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	0.84	Vert(LL)	-0.24	25-27	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.37	25-27	>733	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.08	16	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Attic	-0.21	23-33	967	360	Weight: 439 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 4-5: 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 4-34,8-21,5-40: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-8-2 max.): 6-9.
BOT CHORD Rigid ceiling directly applied. Except:
2-10-0 oc bracing: 25-27
3-4-0 oc bracing: 27-31, 24-25
6-0-0 oc bracing: 31-33
10-0-0 oc bracing: 23-24
WEBS 1 Row at midpt 3-34, 9-20, 10-19, 39-40, 11-19
JOINTS 1 Brace at Jt(s): 24, 25, 27, 31, 37, 38, 40

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 36=-175(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 36, 34, 14, 16
Max Grav All reactions 250 lb or less at joint(s) except 36=974(LC 22), 34=1614(LC 2), 19=2430(LC 25), 14=339(LC 1), 16=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1186/133, 3-4=-794/161, 4-5=-869/241, 5-6=-1112/230, 6-7=-1312/285, 7-8=-1312/285, 8-9=-354/78, 9-10=-478/261, 10-11=-144/458, 11-13=-478/187, 13-14=-255/89, 2-36=-900/169
BOT CHORD 35-36=-172/312, 34-35=-59/970, 30-34=0/2158, 28-30=0/2158, 26-28=0/3189, 22-26=0/2123, 21-22=0/2123, 20-21=-16/362, 19-20=-381/144, 17-19=-133/361, 27-31=-2839/0, 25-27=-2826/0, 24-25=-2826/0
WEBS 3-34=-412/169, 33-34=-604/154, 4-33=-574/167, 21-23=0/775, 23-40=0/907, 8-40=-648/174, 20-39=-1352/0, 9-39=-214/448, 10-20=0/1452, 10-19=-1933/2, 2-35=0/742, 25-26=-379/0, 27-28=-370/0, 31-34=-1990/0, 28-31=0/1144, 21-24=-2059/0, 24-26=0/1167, 5-37=-39/374, 37-38=-37/379, 38-40=-663/210, 7-38=-340/130, 8-38=-280/1370, 6-38=-136/428, 21-39=-22/391, 39-40=-1316/69, 9-40=-509/308, 11-19=-455/146, 13-16=-543/136

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 15-9-1, Exterior(2) 15-9-1 to 24-2-15, Interior(1) 24-2-15 to 29-3-13, Exterior(2) 29-3-13 to 37-9-11, Interior(1) 37-9-11 to 53-5-12, Exterior(2) 53-5-12 to 56-5-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
6) Ceiling dead load (5.0 psf) on member(s). 4-5, 5-37, 37-38, 38-40

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NOTES-

7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 31-33, 27-31, 25-27, 24-25, 23-24
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 36, 34, 14, 16.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	C1	ATTIC	2	1	I48568125
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:36:59 2021 Page 1
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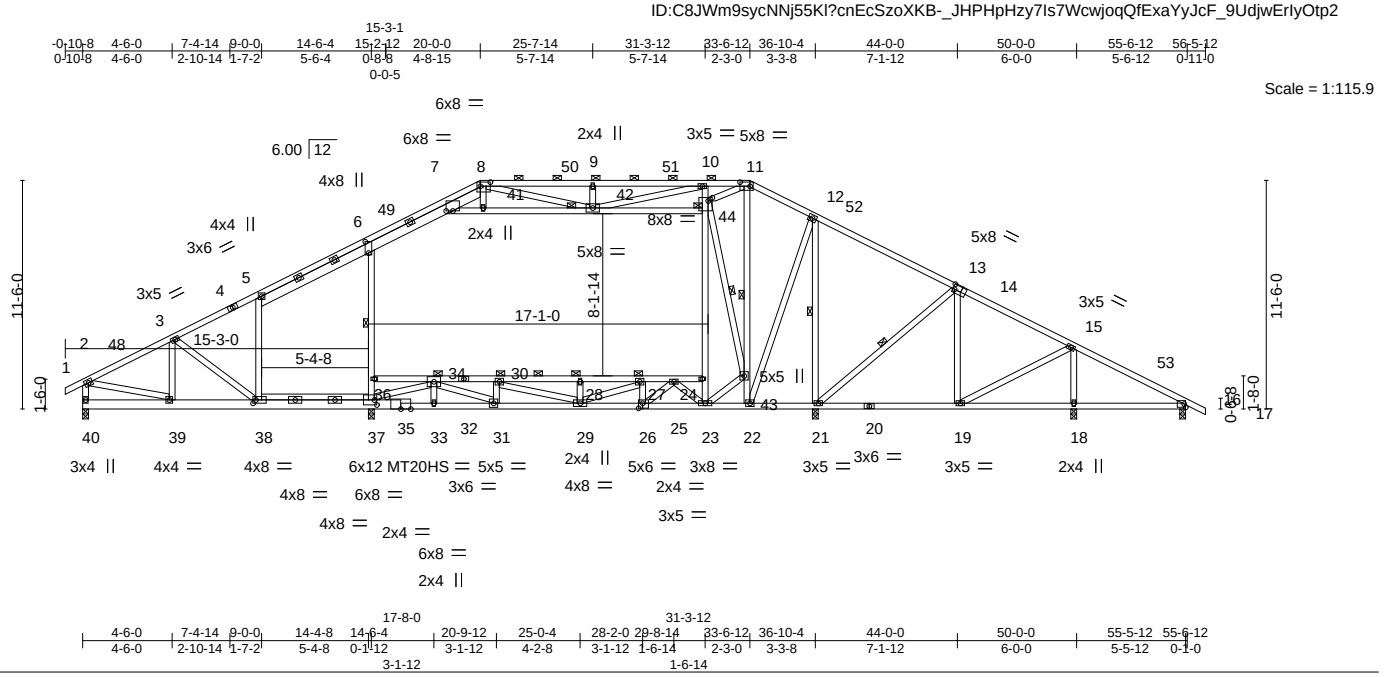

Plate Offsets (X,Y)-- [6:0-6-14,0-2-0], [7:0-4-0,0-0-0], [8:0-6-0,0-2-8], [11:0-6-0,0-2-8], [14:0-1-0,0-3-0], [26:0-2-8,0-3-0], [37:0-1-8,0-3-0], [38:0-1-12,0-2-0], [44:0-2-8,0-2-0]

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	0.42	Vert(LL)	-0.19	28-30	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.29	28-30	>916	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.05	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Attic	-0.07	37-38	960	360	Weight: 475 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
5-8: 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
35-40: 2x6 SP No.1, 26-35: 2x4 SP DSS
WEBS 2x4 SP No.3 *Except*
6-37,10-23,2-40,7-44: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-6-6 max.): 8-11.
BOT CHORD Rigid ceiling directly applied. Except:
3-0-0 oc bracing: 28-30
3-6-0 oc bracing: 27-28
3-7-0 oc bracing: 30-34
4-6-0 oc bracing: 24-27
10-0-0 oc bracing: 34-36
WEBS 1 Row at midpt 6-37, 11-22, 12-21, 43-44, 13-21
JOINTS 1 Brace at Jt(s): 27, 28, 30, 34, 42, 44

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 40=-175(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 40, 16, 18 except 37=-101(LC 10)
Max Grav All reactions 250 lb or less at joint(s) except 40=858(LC 22), 37=2123(LC 2), 21=2247(LC 25), 16=344(LC 1), 18=709(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1035/99, 3-5=-743/75, 5-6=-637/123, 6-7=-835/228, 7-8=-954/214, 8-9=-1421/298, 9-10=-1421/298, 10-11=-615/76, 11-12=-493/251, 12-13=-202/274, 13-15=-523/181, 15-16=-265/87, 2-40=-838/137
BOT CHORD 38-39=-102/928, 37-38=-15/671, 33-37=0/1570, 31-33=0/1548, 29-31=0/2850, 26-29=0/2068, 23-26=0/1379, 22-23=-10/430, 19-21=-38/402, 30-34=-2441/0, 28-30=-2564/0, 27-28=-2564/0, 25-27=-1658/0
WEBS 3-38=-416/223, 36-37=-833/201, 6-36=-807/216, 23-24=0/782, 24-44=0/862, 10-44=-585/171, 22-43=-1187/0, 12-22=0/1312, 12-21=-1778/0, 2-39=-19/870, 26-27=-638/0, 28-29=-388/0, 30-31=-408/0, 33-34=-440/66, 34-37=-1292/0, 31-34=0/1421, 27-29=0/988, 7-41=-78/354, 41-42=-64/349, 9-42=-335/125, 10-42=-259/1103, 8-42=-108/628, 23-43=-11/292, 43-44=-1037/37, 11-44=-115/479, 15-19=-55/252, 13-21=-433/142, 15-18=-575/138, 25-26=0/1046, 23-25=-1245/0

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 15-9-1, Exterior(2) 15-9-1 to 24-2-15, Interior(1) 24-2-15 to 29-3-13, Exterior(2) 29-3-13 to 37-9-11, Interior(1) 37-9-11 to 53-5-12, Exterior(2) 53-5-12 to 56-5-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 4x5 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.

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ENGINEERING BY TRENCO
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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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). 6-7, 7-41, 41-42, 42-44
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 37-38, 34-36, 30-34, 28-30, 27-28, 25-27, 24-25
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40, 16, 18 except (jt=lb) 37=101.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
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.

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	C2	ATTIC	2	1	I48568126
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:37:02 2021 Page 1
ID:C8JWm9sycNNj55Kl?cnEcSzoXKB-PuyYvqKrF2gR_zLVOxN7HtZ509MlSKcwJg8uSdyOtp?

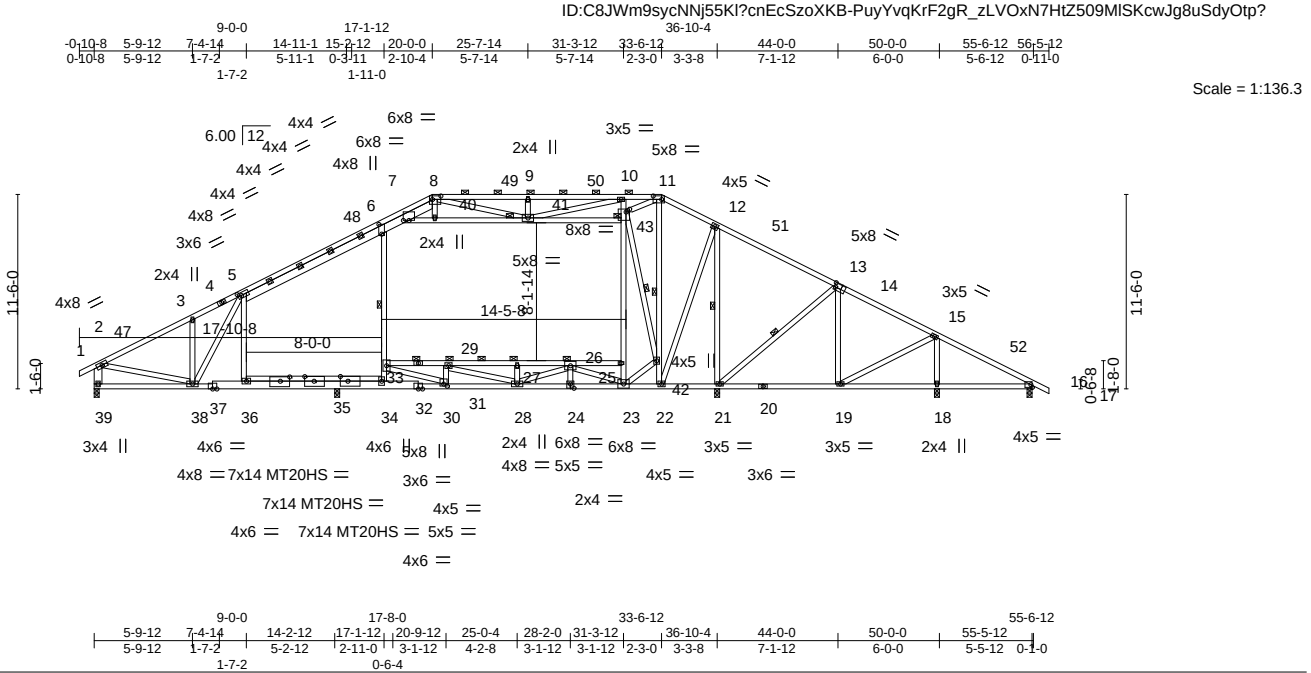

Plate Offsets (X,Y)-- [5:0-2-8,0-2-0], [6:0-6-14,0-2-0], [7:0-4-0,0-0-0], [8:0-6-0,0-2-8], [11:0-6-0,0-2-8], [14:0-1-0,0-3-0], [24:0-2-8,0-3-0], [30:0-2-8,0-1-8], [34:0-6-11,0-3-1], [34:0-6-10,0-3-4], [34:0-5-5,0-3-6], [43:0-2-8,0-2-0]

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	0.41	Vert(LL)	-0.20	27-29	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.32	27-29	>834	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.04	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Attic	-0.10	34-35	679	360	Weight: 473 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except* 5-8: 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except* 32-37: 2x6 SP DSS, 34-36: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except* 6-34,10-23,7-43: 2x4 SP No.2, 2-39: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-8-12 max.): 8-11.
BOT CHORD Rigid ceiling directly applied. Except: 2-2-0 oc bracing: 29-33, 3-4-0 oc bracing: 27-29, 3-9-0 oc bracing: 26-27, 10-0-0 oc bracing: 25-26
WEBS 1 Row at midpt 6-34, 11-22, 12-21, 42-43, 13-21
JOINTS 1 Brace at Jt(s): 26, 27, 29, 41, 43

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 39=-175(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 39, 21, 16, 18 except 35=-140(LC 10)
Max Grav All reactions 250 lb or less at joint(s) except 39=1031(LC 24), 21=2000(LC 25), 16=356(LC 1), 18=791(LC 1), 35=1840(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1290/69, 3-5=-1239/131, 5-6=-1156/101, 6-7=-1073/191, 7-8=-850/137, 8-9=-1313/260, 9-10=-1313/260, 10-11=-371/114, 11-12=-775/207, 12-13=-376/169, 13-15=-639/138, 15-16=-290/78, 2-39=-978/129
BOT CHORD 38-39=-140/255, 36-38=0/1027, 35-36=0/1055, 34-35=0/1110, 30-34=0/1115, 28-30=0/2747, 24-28=0/2267, 23-24=0/2267, 22-23=0/712, 21-22=0/348, 19-21=-5/506, 29-33=-1920/0, 27-29=-2229/0, 26-27=-2229/0
WEBS 5-38=-332/419, 33-34=-987/98, 6-33=-491/225, 23-25=0/640, 25-43=0/772, 10-43=-587/157, 22-42=-1072/0, 11-42=-106/478, 12-22=0/1150, 12-21=-1593/31, 2-38=0/967, 27-28=-372/0, 29-30=-527/0, 30-33=0/1994, 28-29=0/325, 23-26=-1722/0, 26-28=0/861, 7-40=-352/194, 40-41=-327/189, 41-43=-570/58, 9-41=-334/126, 10-41=-199/1116, 8-41=-163/629, 23-42=0/376, 42-43=-1293/0, 11-43=-332/99, 15-19=-7/351, 13-21=-400/156, 15-18=-658/109, 5-36=-550/288

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 15-9-1, Exterior(2) 15-9-1 to 24-2-15, Interior(1) 24-2-15 to 29-3-13, Exterior(2) 29-3-13 to 37-9-11, Interior(1) 37-9-11 to 53-5-12, Exterior(2) 53-5-12 to 56-5-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

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ENGINEERING BY TRENCO
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NOTES-

7) Ceiling dead load (5.0 psf) on member(s). 6-7, 7-40, 40-41, 41-43
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 35-36, 34-35, 29-33, 27-29, 26-27, 25-26
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 39, 21, 16, 18 except (jt=lb) 35=140.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	C3	ATTIC	2	2	I48568127

Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:37:07 2021 Page 1
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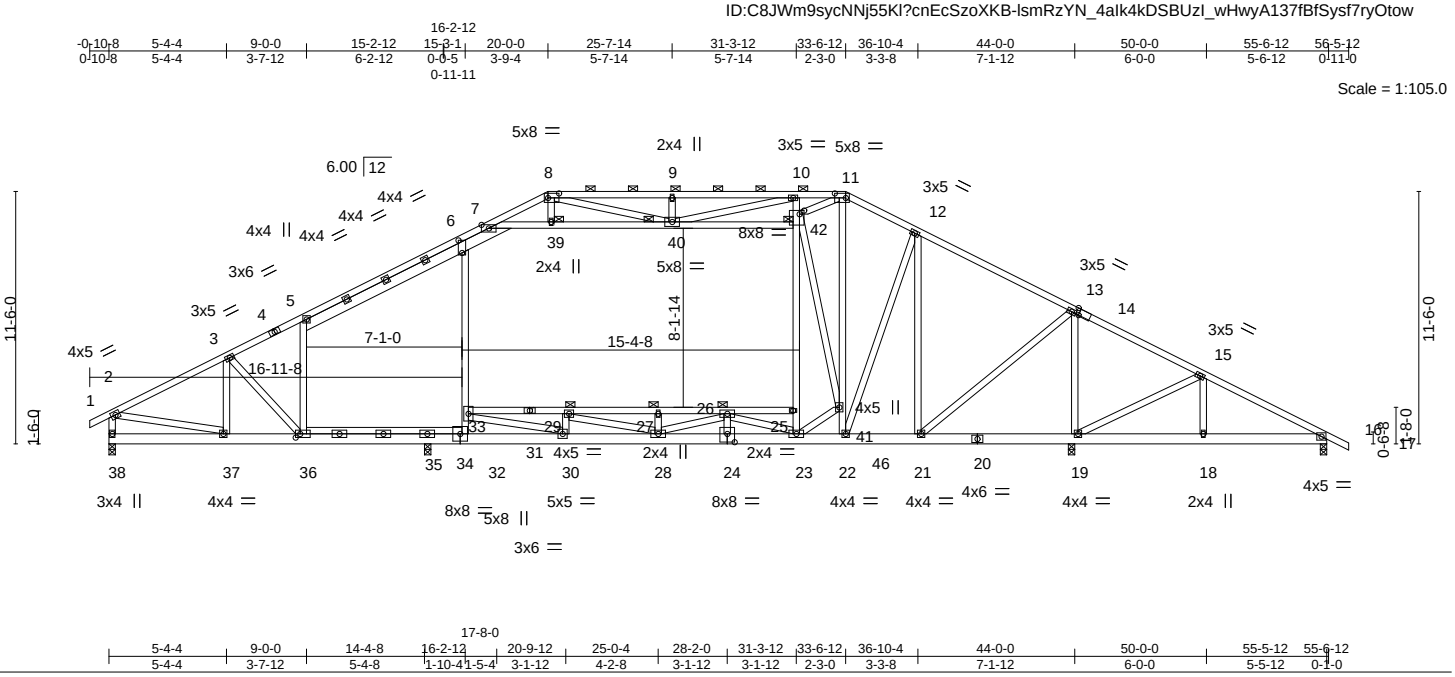

Plate Offsets (X,Y)-- [6:0-6-14,0-2-0], [8:0-6-0,0-2-8], [11:0-6-0,0-2-8], [14:0-1-11,Edge], [24:0-4-0,0-4-8], [36:0-2-8,0-2-0], [42:0-2-8,0-2-0]

LOADING (psf)		SPACING- 2-5-12		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.13	27-29	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.21	27-29	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.02	19	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MSH		Attic	-0.07	35-36	1961	360	Weight: 1001 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
5-7: 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
31-33: 2x4 SP No.1, 25-31,32-36: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
6-32,10-23,7-42: 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.): 8-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 19-21,18-19,16-18.
JOINTS 1 Brace at Jt(s): 26, 27, 29, 39, 40, 42

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 38=-217(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 19, 16 except 35=-219(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 38=1609(LC 2), 19=3406(LC 23), 16=310(LC 1), 35=2168(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2161/0, 3-5=-1955/11, 5-6=-1958/55, 6-7=-1863/86, 7-8=-1361/192, 8-9=-2402/332, 9-10=-2402/332, 10-11=-1962/46, 11-12=-1689/89, 12-13=-1379/60, 13-15=-7/978, 15-16=-75/437, 2-38=-1553/0
BOT CHORD 37-38=-165/294, 36-37=0/1865, 35-36=0/1763, 32-35=0/1912, 30-32=0/1786, 28-30=0/3940, 24-28=0/3295, 23-24=0/3295, 22-23=0/1474, 21-22=0/1172, 19-21=-795/140, 18-19=-361/67, 16-18=-361/67, 29-33=-2471/0, 27-29=-2875/0, 26-27=-2875/0
WEBS 3-36=-432/383, 32-33=-1029/152, 6-33=-577/314, 23-25=0/943, 25-42=0/1103, 10-42=-601/215, 22-41=-855/0, 11-41=-79/389, 12-22=0/926, 12-21=-1376/26, 2-37=0/1752, 27-28=-424/0, 29-30=-736/0, 30-33=0/2554, 28-29=0/423, 23-26=-2128/0, 26-28=0/1135, 7-39=-798/36, 39-40=-790/39, 40-42=-17/332, 9-40=-446/164, 10-40=-340/965, 8-40=-163/1344, 23-41=-1/314, 41-42=-1079/7, 11-42=0/646, 13-19=-2957/68, 15-19=-645/160, 13-21=0/2476, 15-18=0/297, 5-36=-296/96

NOTES-

1) 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
5) Provide adequate drainage to prevent water ponding.
6) All plates are 4x8 MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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ENGINEERING BY TRENCO
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Edenton, NC 27932

NOTES-

8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
9) Ceiling dead load (5.0 psf) on member(s). 6-7, 7-39, 39-40, 40-42
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 35-36, 32-35, 29-33, 27-29, 26-27, 25-26
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 16 except (jt=lb) 35=219.
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.

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	C4	ATTIC	9	1	I48568128
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:37:10 2021 Page 1
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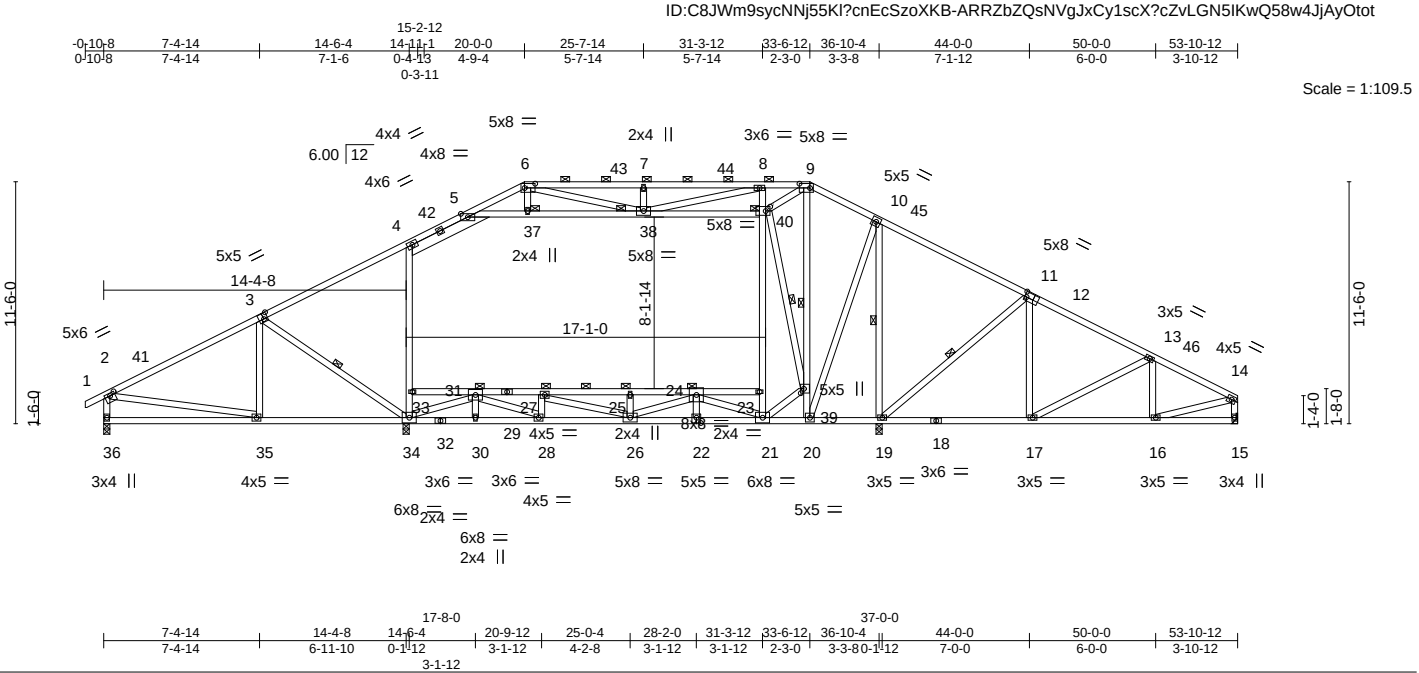

Plate Offsets (X,Y)-- [2:0-3-0,0-1-8], [3:0-2-4,0-3-4], [6:0-6-0,0-2-8], [9:0-6-0,0-2-8], [12:0-1-0,0-3-0], [22:0-2-8,0-3-0], [39:0-2-8,0-1-12], [40:0-2-8,0-2-8]

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	0.84	Vert(LL)	-0.24	25-27	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.37	25-27	>735	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.08	15	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Attic	-0.21	23-33	964	360	Weight: 440 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
4-34,8-21,5-40: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-9-2 max.): 6-9.
BOT CHORD Rigid ceiling directly applied. Except:
2-10-0 oc bracing: 25-27
3-4-0 oc bracing: 27-31, 24-25
6-0-0 oc bracing: 31-33
10-0-0 oc bracing: 23-24
WEBS 1 Row at midpt 3-34, 9-20, 10-19, 39-40, 11-19
JOINTS 1 Brace at Jt(s): 24, 25, 27, 31, 37, 38, 40

REACTIONS. All bearings 0-3-8 except (jt=length) 15=Mechanical.
(lb) - Max Horz 36=148(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 36, 34, 15
Max Grav All reactions 250 lb or less at joint(s) except 36=955(LC 22), 34=1627(LC 2), 19=2548(LC 25), 15=635(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1157/117, 3-4=-761/143, 4-5=-840/225, 5-6=-1105/227, 6-7=-1277/269, 7-8=-1277/269, 8-9=-323/188, 9-10=-404/240, 10-11=-52/480, 11-13=-574/187, 13-14=-781/156, 2-36=-881/158, 14-15=-598/131
BOT CHORD 35-36=-193/289, 34-35=-78/944, 30-34=0/2128, 28-30=0/2128, 26-28=0/3176, 22-26=0/2093, 21-22=0/2093, 20-21=-35/322, 19-20=-401/127, 17-19=-131/453, 16-17=-101/658, 27-31=-2840/0, 25-27=-2826/0, 24-25=-2826/0
WEBS 3-34=-419/170, 33-34=-619/156, 4-33=-589/169, 21-23=0/773, 23-40=0/906, 8-40=-664/174, 20-39=-1385/0, 9-39=-213/450, 10-20=0/1487, 10-19=-1968/17, 2-35=0/714, 25-26=-379/0, 27-28=-370/0, 31-34=-1991/0, 28-31=0/1144, 21-24=-2059/0, 24-26=0/1167, 5-37=-39/420, 37-38=-37/425, 38-40=-731/225, 7-38=-339/130, 8-38=-279/1431, 6-38=-131/389, 21-39=-25/401, 39-40=-1348/80, 9-40=-576/291, 11-17=0/374, 13-17=-274/82, 11-19=-651/171, 14-16=-85/619

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-1 to 2-1-15, Interior(1) 2-1-15 to 15-9-1, Exterior(2) 15-9-1 to 24-2-15, Interior(1) 24-2-15 to 29-3-13, Exterior(2) 29-3-13 to 37-9-11, Interior(1) 37-9-11 to 50-9-0, Exterior(2) 50-9-0 to 53-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
6) Ceiling dead load (5.0 psf) on member(s). 4-5, 5-37, 37-38, 38-40

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NORTH CAROLINA PROFESSIONAL SEAL 044925 ENGINEER SCOTT M. SEVIER

October 29,2021

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

NOTES-

7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 31-33, 27-31, 25-27, 24-25, 23-24
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 36, 34, 15.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	C4AGR	ATTIC	1	2	I48568129
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:37:13 2021 Page 1
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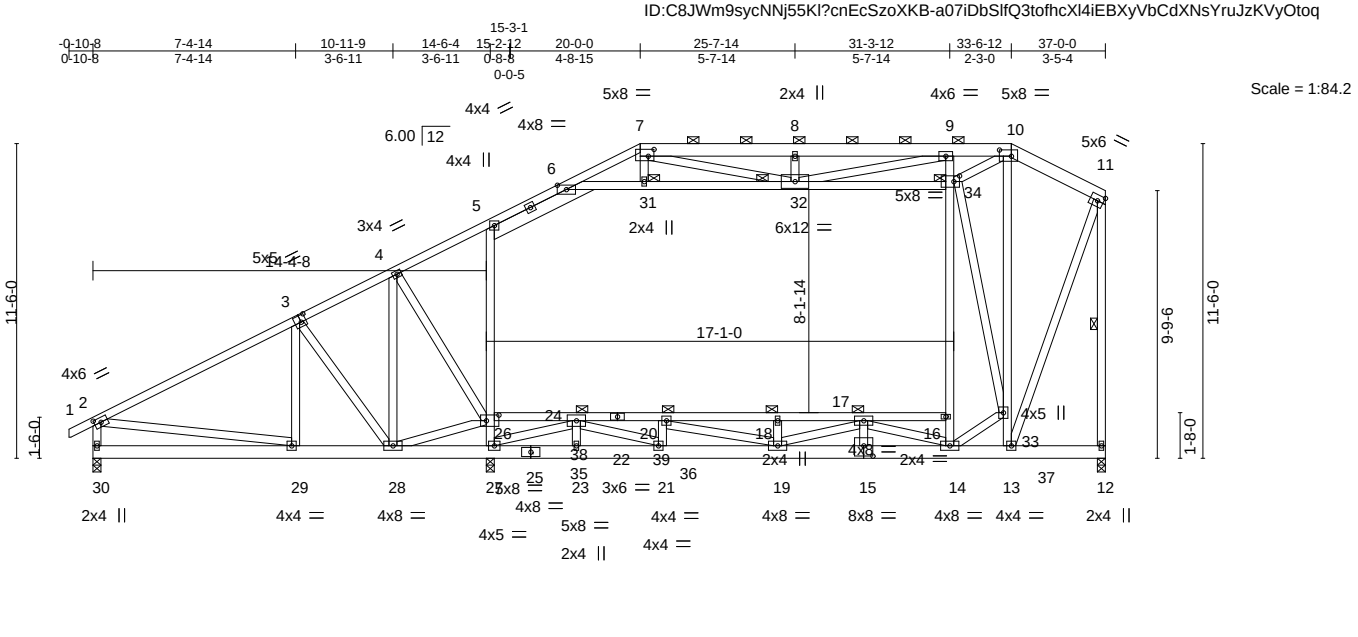

Plate Offsets (X,Y)-- [2:0-2-15,0-2-0], [3:0-2-4,0-3-0], [7:0-2-8,0-3-0], [10:0-5-4,0-2-12], [15:0-4-0,0-4-8], [26:0-5-8,0-2-8], [34:0-2-8,0-2-8]

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	0.46	Vert(LL)	-0.10	18-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.15	18-20	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.09	16-26	2318	360	Weight: 811 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1 *Except* 3-7,1-3: 2x4 SP No.2
BOT CHORD	2x6 SP No.1 *Except* 22-26,16-22: 2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 5-27,9-14,6-34: 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.): 7-10.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 27-28.
WEBS	1 Row at midpt 11-12
JOINTS	1 Brace at Jt(s): 17, 18, 20, 24, 31, 32, 34

REACTIONS. (size) 30=0-3-8, 27=0-3-8, 12=0-3-8
Max Horz 30=296(LC 8)
Max Uplift 30=-34(LC 8), 27=-38(LC 28), 12=-114(LC 4)
Max Grav 30=911(LC 1), 27=2192(LC 22), 12=1851(LC 2)

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

TOP CHORD	2-3=-1095/22, 3-4=-830/68, 4-5=-960/70, 5-6=-1046/93, 6-7=-1099/176, 7-8=-1547/268, 8-9=-1546/266, 9-10=-978/19, 10-11=-623/62, 2-30=-833/65, 11-12=-1762/130
BOT CHORD	29-30=-371/256, 28-29=-214/889, 27-28=-1784/0, 23-27=0/976, 21-23=0/976, 19-21=0/2636, 15-19=0/2118, 14-15=0/2118, 13-14=-35/512, 24-26=0/2438, 20-24=-1957/0, 18-20=-2236/0, 17-18=-2236/0
WEBS	26-27=-883/261, 5-26=-516/180, 14-16=0/929, 16-34=0/1056, 9-34=-696/223, 13-33=-1407/97, 10-33=-166/442, 2-29=0/642, 18-19=-370/0, 20-21=-465/0, 24-27=-2957/0, 21-24=0/1795, 19-20=0/460, 14-17=-1707/0, 17-19=0/862, 6-31=-152/308, 31-32=-146/313, 32-34=-638/314, 8-32=-311/125, 9-32=-378/1276, 7-32=-132/728, 14-33=-55/396, 33-34=-1352/188, 10-34=-459/620, 11-13=-104/1506, 4-28=-708/0, 3-28=-384/143, 26-28=0/2237, 4-26=0/608

NOTES-

1) 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). 5-6, 6-31, 31-32, 32-34

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NOTES-

9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 24-26, 20-24, 18-20, 17-18, 16-17
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 27 except (jt=lb) 12=114.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 154 lb down at 15-7-12, 154 lb down at 17-7-12, and 154 lb down at 19-7-12, and 264 lb down and 149 lb up at 31-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-60, 2-5=-60, 5-6=-70, 6-7=-60, 7-10=-60, 10-11=-60, 12-30=-20, 16-26=-20, 6-34=-10
   Concentrated Loads (lb)
   Vert: 14=-203(B) 23=-28(B) 35=-28(B) 36=-28(B)

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	C4GR	ATTIC	1	2	I48568130
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:37:18 2021 Page 1
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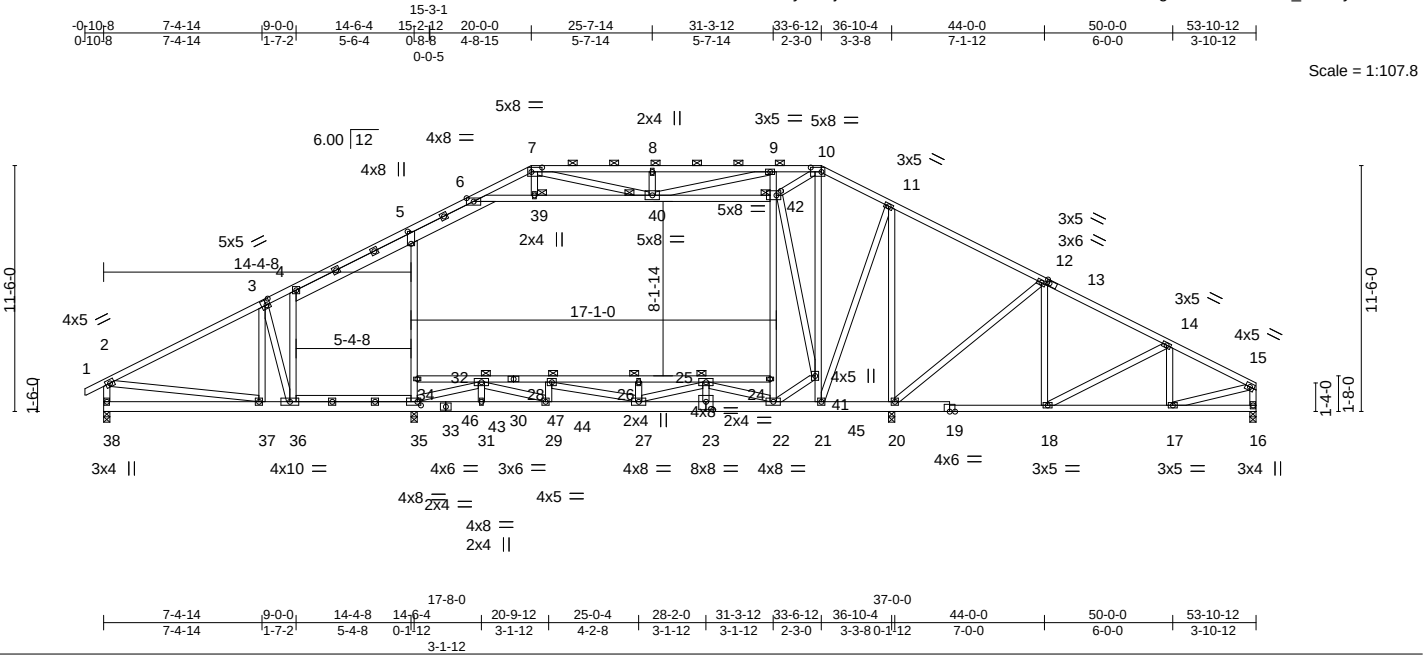

Plate Offsets (X,Y)-- [3:0-2-4,0-3-0], [5:0-6-14,0-2-0], [7:0-6-0,0-2-8], [10:0-6-0,0-2-8], [13:0-1-11,0-1-8], [23:0-4-0,0-4-8], [35:0-2-0,0-2-0], [42:0-2-8,0-2-8]

LOADING (psf)		SPACING- 1-5-12		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.09	26-28	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.14	26-28	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.02	16	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MSH		Attic	-0.08	24-34	2516	360	Weight: 988 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-6: 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
33-38,19-23,23-33: 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
5-35,9-22,6-42: 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.): 7-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 20-21,18-20.
JOINTS 1 Brace at Jt(s): 25, 26, 28, 32, 39, 40, 42

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 38=109(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 38, 35, 16 except 20=-126(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 38=650(LC 20), 35=1866(LC 2), 20=2163(LC 23), 16=436(LC 1)

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

TOP CHORD 2-3=-778/38, 3-4=-642/69, 4-5=-503/100, 5-6=-644/118, 6-7=-760/137, 7-8=-1087/231, 8-9=-1087/231, 9-10=-538/85, 10-11=-294/120, 11-12=0/390, 12-14=-361/157, 14-15=-533/93, 2-38=-592/53, 15-16=-413/77
BOT CHORD 36-37=-70/645, 35-36=-52/485, 31-35=0/1730, 29-31=0/1730, 27-29=0/2769, 23-27=0/1651, 22-23=0/1651, 21-22=-33/258, 20-21=-314/131, 18-20=-121/279, 17-18=-58/448, 28-32=-2457/0, 26-28=-2235/0, 25-26=-2235/0
WEBS 3-37=-114/391, 3-36=-780/332, 34-35=-606/164, 5-34=-587/174, 22-24=0/888, 24-42=0/981, 9-42=-436/131, 21-41=-1321/25, 11-21=-62/1309, 11-20=-1692/134, 2-37=-8/489, 26-27=-276/0, 31-32=-308/47, 32-35=-1593/0, 29-32=0/1123, 22-25=-1589/0, 25-27=0/969, 8-40=-262/97, 9-40=-219/863, 7-40=-116/491, 22-41=-25/308, 41-42=-1055/82, 10-42=-38/524, 12-18=0/257, 12-20=-472/132, 4-36=-122/323, 15-17=-53/433

NOTES-

1) 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
5) Provide adequate drainage to prevent water ponding.
6) All plates are 4x4 MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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NOTES-

8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
9) Ceiling dead load (5.0 psf) on member(s). 5-6, 6-39, 39-40, 40-42
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 35-36, 32-34, 28-32, 26-28, 25-26, 24-25
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 38, 35, 16 except (jt=lb) 20=126.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 159 lb down at 15-7-12, 159 lb down at 17-7-12, and 159 lb down at 19-7-12, and 261 lb down and 135 lb up at 31-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-44, 2-5=-44, 5-6=-52, 6-7=-44, 7-10=-44, 10-15=-44, 16-38=-15, 24-34=-15, 6-42=-7
   Concentrated Loads (lb)
   Vert: 22=-203(F) 31=-33(F) 43=-33(F) 44=-33(F)

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	C5GE	GABLE	1	1	I48568131
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:37:44 2021 Page 1
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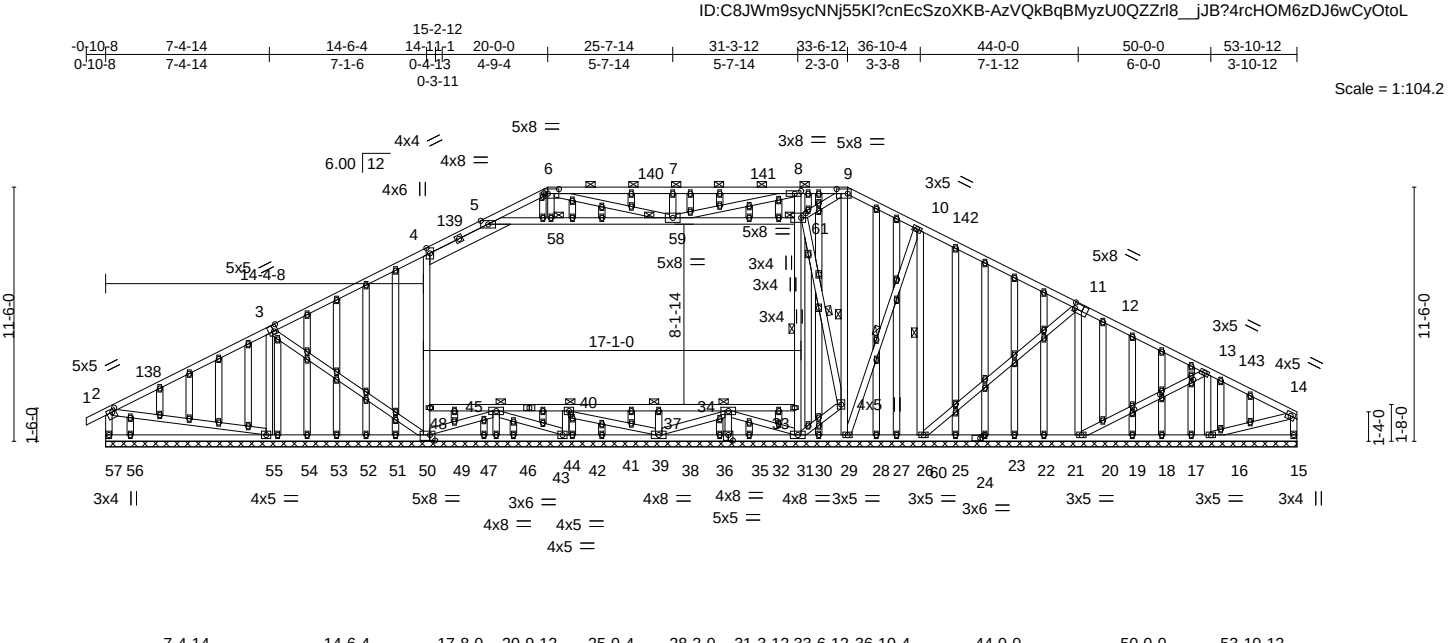

Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [3:0-2-4,0-3-4], [6:0-6-0,0-2-8], [8:0-3-8,0-1-8], [9:0-6-0,0-2-8], [12:0-1-0,0-3-0], [130:0-1-15,0-1-0], [132:0-1-15,0-1-0], [134:0-1-15,0-1-0] , [24:0-1-10,0-1-8], [35:0-2-8,0-3-0], [49:0-2-12,0-3-0], [61:0-2-8,0-2-8], [81:0-1-15,0-1-0], [83:0-2-0,0-0-8]

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	0.76	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	0.01	1	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.02	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 650 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 4-49,8-31,5-61: 2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-11-0 max.): 6-9.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 33-61, 9-29, 10-29, 10-26, 60-61
JOINTS	1 Brace at Jt(s): 34, 37, 40, 45, 58, 59, 61

REACTIONS. All bearings 53-10-12.
(lb) - Max Horz 57=148(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 57, 31, 29, 20, 15, 16, 30, 41, 17 except 49=-222(LC 10), 26=-127(LC 11), 54=-369(LC 3)
Max Grav All reactions 250 lb or less at joint(s) 31, 35, 46, 15, 30, 28, 36, 39, 44, 47, 50, 51, 52, 53, 32, 27, 25, 23, 22, 21, 19, 18 except 57=485(LC 22), 49=361(LC 18), 55=978(LC 22), 29=464(LC 23), 26=298(LC 1), 38=366(LC 16), 42=414(LC 16), 20=559(LC 1), 16=474(LC 1), 56=259(LC 3)

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

TOP CHORD	2-3=-501/90, 3-4=-807/153, 4-5=-864/237, 5-6=-1060/239, 6-7=-1196/299, 7-8=-1196/299, 8-9=-1/298, 9-10=-540/223, 10-11=-566/157, 11-13=-400/91, 2-57=-492/138
BOT CHORD	54-55=-73/384, 53-54=-73/384, 52-53=-73/384, 51-52=-73/384, 50-51=-73/384, 49-50=-73/384, 47-49=-14/286, 46-47=-14/286, 44-46=-14/286, 42-44=-14/286, 41-42=-21/330, 39-41=-21/330, 38-39=-21/330, 36-38=-21/344, 35-36=-21/344, 32-35=-21/344, 31-32=-21/344, 30-31=-7/451, 29-30=-7/451, 28-29=-4/429, 27-28=-4/429, 26-27=-4/429, 25-26=0/296, 23-25=0/296, 22-23=0/296, 21-22=0/296, 20-21=0/296, 40-45=-21/317
WEBS	3-55=-741/112, 3-49=0/323, 48-49=-577/155, 4-48=-548/168, 31-33=-312/78, 33-61=-286/90, 8-61=-669/171, 29-60=-406/62, 9-60=-160/649, 10-26=-371/99, 34-35=-332/0, 45-46=-309/0, 45-49=-22/324, 31-34=-27/336, 5-58=-52/356, 58-59=-50/362, 59-61=-881/183, 7-59=-339/129, 8-59=-269/1468, 6-59=-123/290, 31-60=-54/269, 60-61=-892/178, 9-61=-855/182, 11-20=-582/108, 13-16=-424/93

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 15-9-1, Exterior(2) 15-9-1 to 24-2-15, Interior(1) 24-2-15 to 29-3-13, Exterior(2) 29-3-13 to 37-9-11, Interior(1) 37-9-11 to 50-9-0, Exterior(2) 50-9-0 to 53-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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.

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NOTES-

4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
10) Ceiling dead load (5.0 psf) on member(s). 4-5, 5-58, 58-59, 59-61
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 57, 31, 29, 20, 15, 16, 30, 41, 17 except (jt=lb) 49=222, 26=127, 54=369.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
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.

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	CGE	GABLE	1	1	I48568132
					Job Reference (optional)

The Building Center Inc., Gastonia, NC 28052 — 8.430 s Jul 16 2021 MiTek Industries, Inc. Fri Oct 29 15:32:42 2021 Page 1

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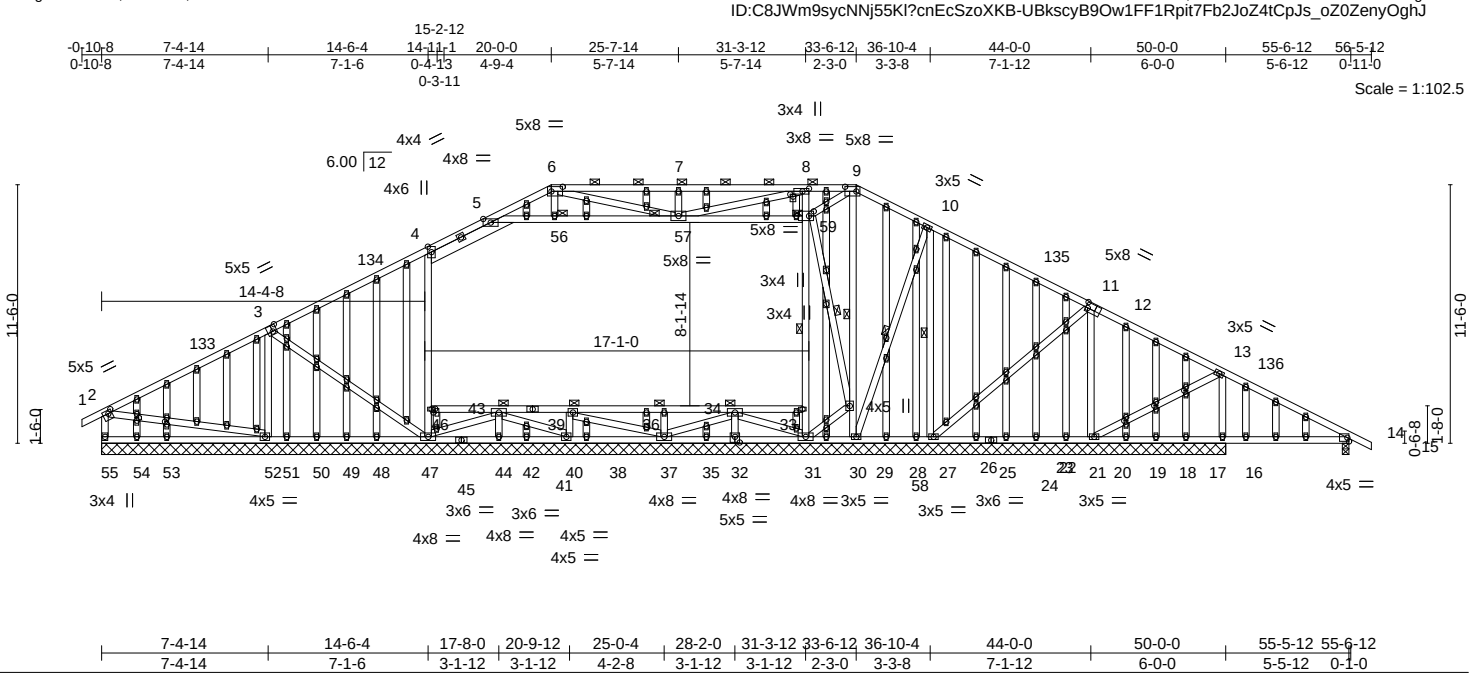

Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [3:0-2-4,0-3-4], [6:0-6-0,0-2-8], [8:0-3-8,0-1-8], [8:0-1-4,0-1-8], [9:0-6-0,0-2-8], [100:0-1-9,0-1-0], [102:0-1-9,0-1-0], [119:0-1-15,0-1-0], [123:0-1-15,0-1-0], [121:0-1-15,0-1-0], [12:0-1-0,0-3-0], [32:0-2-8,0-3-0], [59:0-2-8,0-2-8], [83:0-2-0,0-1-0]

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	0.76	Vert(LL)	-0.03	36-39	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.05	16-132	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.03	16	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Attic	-0.03	33-46	8037	360	Weight: 643 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 4-47,8-31,5-59: 2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-11-0 max.): 6-9.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 33-59, 9-29, 10-29, 10-26, 58-59
JOINTS	1 Brace at Jt(s): 34, 36, 39, 43, 56, 57, 59

REACTIONS. All bearings 50-0-0 except (jt=length) 14=0-3-8.
(lb) - Max Horz 55=-175(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 55, 52, 31, 29, 20, 14, 16, 30, 51, 54, 17 except 47=-212(LC 10), 26=-128(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 31, 35, 38, 42, 48, 49, 50, 53, 54, 28, 27, 25, 23, 22, 21, 19, 18, 17 except 55=549(LC 22), 52=807(LC 22), 47=351(LC 18), 29=466(LC 23), 26=310(LC 1), 32=489(LC 21), 37=422(LC 16), 40=405(LC 16), 44=471(LC 21), 20=554(LC 1), 14=394(LC 1), 16=530(LC 1)

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

TOP CHORD	2-133=-508/88, 3-133=-387/105, 3-134=-806/130, 4-134=-638/158, 4-5=-864/260, 5-6=-1060/258, 6-7=-1196/355, 7-8=-1196/355, 8-9=0/294, 9-10=-544/247, 10-135=-473/173, 11-135=-571/153, 11-12=-269/121, 12-13=-426/120, 14-136=-365/92, 2-55=-495/158
BOT CHORD	54-55=-195/260, 53-54=-195/260, 52-53=-195/260, 51-52=-58/410, 50-51=-58/410, 49-50=-58/410, 48-49=-58/410, 47-48=-58/410, 45-47=-12/332, 44-45=-12/332, 42-44=-12/332, 40-42=-12/332, 38-40=-14/339, 37-38=-14/339, 35-37=-13/356, 32-35=-13/356, 31-32=-13/356, 30-31=0/471, 29-30=0/471, 28-29=0/451, 27-28=0/451, 26-27=0/451, 25-26=0/316, 24-25=0/316, 23-24=0/316, 22-23=0/316, 21-22=0/316, 20-21=0/316, 19-20=-4/267, 18-19=-4/267, 17-18=-4/267, 16-17=-4/267, 14-16=-4/267, 41-43=-12/307, 39-41=-12/307
WEBS	3-52=-740/110, 3-47=0/320, 46-47=-575/170, 4-46=-547/183, 31-33=-341/79, 33-59=-289/91, 8-59=-669/177, 29-58=-399/61, 9-58=-189/650, 10-26=-365/112, 32-34=-431/0, 36-37=-378/0, 39-40=-390/0, 43-44=-417/0, 43-47=-23/404, 31-34=-18/335, 5-56=-49/354, 56-57=-47/359, 57-59=-879/185, 7-57=-339/130, 8-57=-270/1466, 6-57=-126/292, 31-58=-58/268, 58-59=-887/191, 9-59=-854/184, 11-20=-551/98, 13-16=-393/71

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

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Continued on page 2

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NOTES-

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-8-1, Interior(1) 4-8-1 to 12-1-14, Exterior(2) 12-1-14 to 41-4-14, Interior(1) 41-4-14 to 50-11-3, Exterior(2) 50-11-3 to 56-5-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 2x4 MT20 unless otherwise indicated.
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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
9) Ceiling dead load (5.0 psf) on member(s). 4-5, 5-56, 56-57, 57-59
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 43-46, 39-43, 36-39, 34-36, 33-34
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 55, 52, 31, 29, 20, 14, 16, 30, 51, 54, 17 except (jt=lb) 47=212, 26=128.
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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
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.

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	EJ1	JACK-CLOSED	2	1	I48568133
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:10 2021 Page 1
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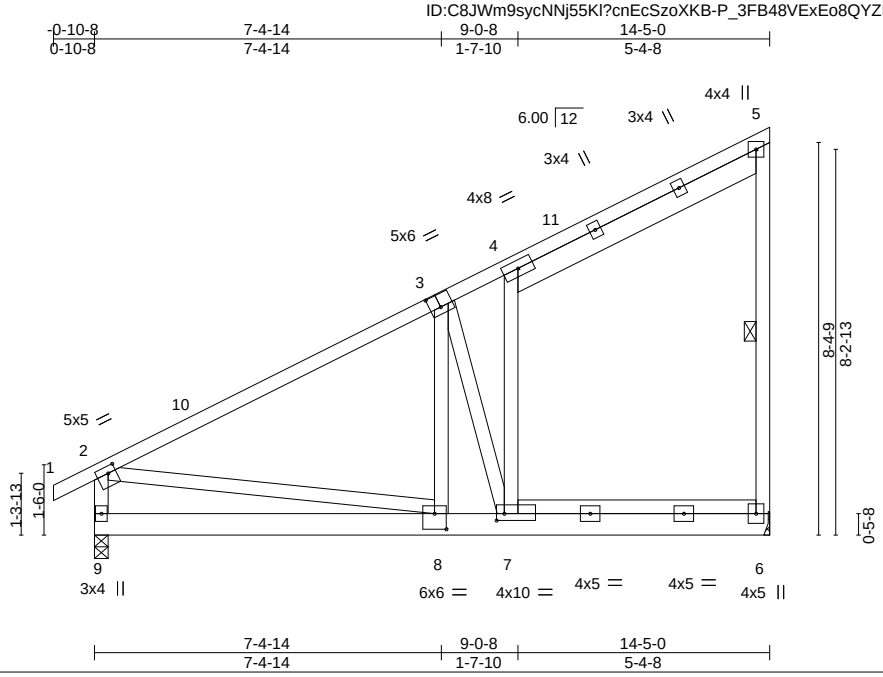

Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [3:0-2-12,0-3-4], [7:0-2-0,0-1-12], [8:0-3-0,0-4-0]

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	0.88	Vert(LL)	-0.16	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.31	7	>556	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS							Weight: 126 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
4-5: 2x6 SP No.1, 1-3: 2x4 SP No.2
BOT CHORD 2x6 SP No.1 *Except*
6-7: 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-6

REACTIONS. (size) 9=0-3-8, 6=Mechanical
Max Horz 9=237(LC 10)
Max Uplift 9=-25(LC 10), 6=-157(LC 10)
Max Grav 9=628(LC 1), 6=623(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-553/73, 2-3=-631/0, 3-4=-284/0, 5-6=-270/120
BOT CHORD 8-9=-292/237, 7-8=-151/495
WEBS 2-8=0/321, 3-8=-184/861, 4-7=-116/458, 3-7=-1485/454

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-5, Exterior(2) 10-0-5 to 14-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
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) 9 except (jt=lb) 6=157.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	EJ2	Monopitch	2	1	I48568134
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:11 2021 Page 1
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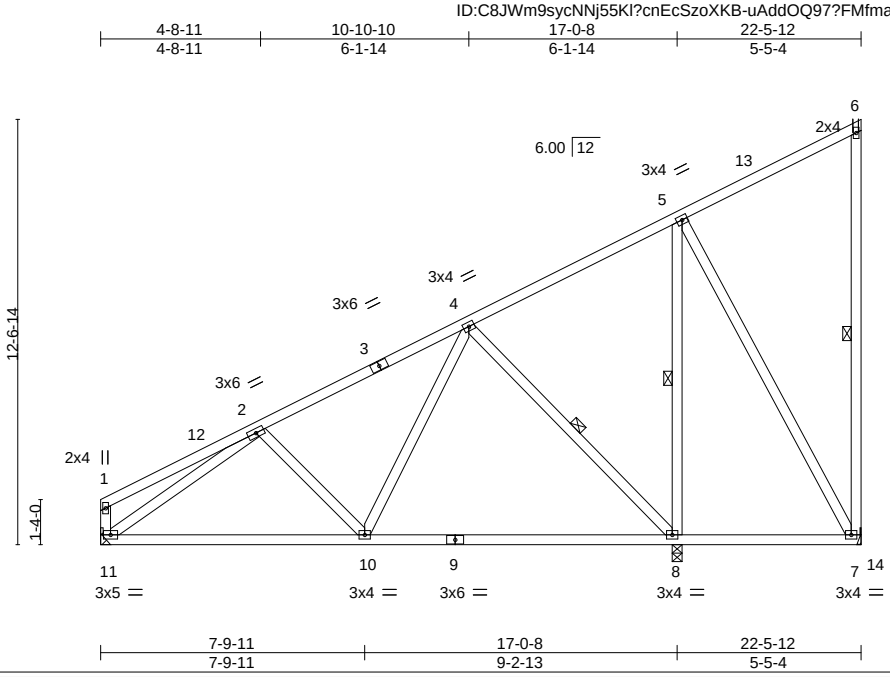

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.13	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.26	8-10	>784	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 157 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-7, 4-8, 5-8

REACTIONS. (size) 7=Mechanical, 8=0-3-8, 11=Mechanical
Max Horz 11=351(LC 10)
Max Uplift 7=-98(LC 10), 8=-178(LC 10)
Max Grav 7=136(LC 2), 8=1055(LC 1), 11=636(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-656/0
BOT CHORD 10-11=-297/646, 8-10=-165/364
WEBS 4-10=-34/427, 4-8=-583/197, 5-8=-467/118, 2-11=-669/0

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 1-9-12 to 4-9-12, Interior(1) 4-9-12 to 21-0-0, Exterior(2) 21-0-0 to 24-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
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) 8=178.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	FT1	FLAT GIRDER	1	2	I48568135
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:12 2021 Page 1
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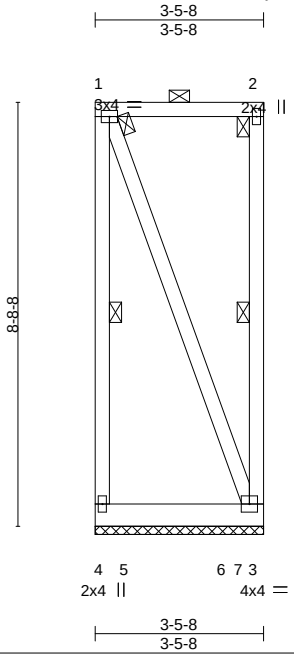

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 99 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-4, 2-3

REACTIONS. (size) 4=3-5-8, 3=3-5-8
Max Uplift 4=-189(LC 4), 3=-177(LC 4)
Max Grav 4=766(LC 2), 3=713(LC 2)

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

NOTES-
1) 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
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) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=189, 3=177.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 585 lb down and 172 lb up at 0-8-0, and 586 lb down and 173 lb up at 2-8-0 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: 1-2=-60, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-548(B) 6=-546(B)

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	FT2	FLAT GIRDER	1	2	I48568136
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:13 2021 Page 1
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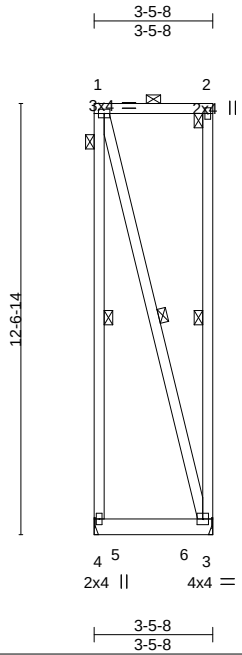

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	3-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	20.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 133 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-4, 2-3, 1-3

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Uplift 4=-129(LC 4), 3=-121(LC 4)
Max Grav 4=284(LC 2), 3=276(LC 2)

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

NOTES-
1) 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
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) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
4) Provide adequate drainage to prevent water ponding.
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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 20.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=129, 3=121.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 91 lb down and 109 lb up at 0-8-0, and 89 lb down and 109 lb up at 2-8-0 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: 1-2=-60, 3-4=-40
Concentrated Loads (lb)
Vert: 5=-62(F) 6=-62(F)

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	FT3	FLOOR	3	1	I48568137
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:13 2021 Page 1
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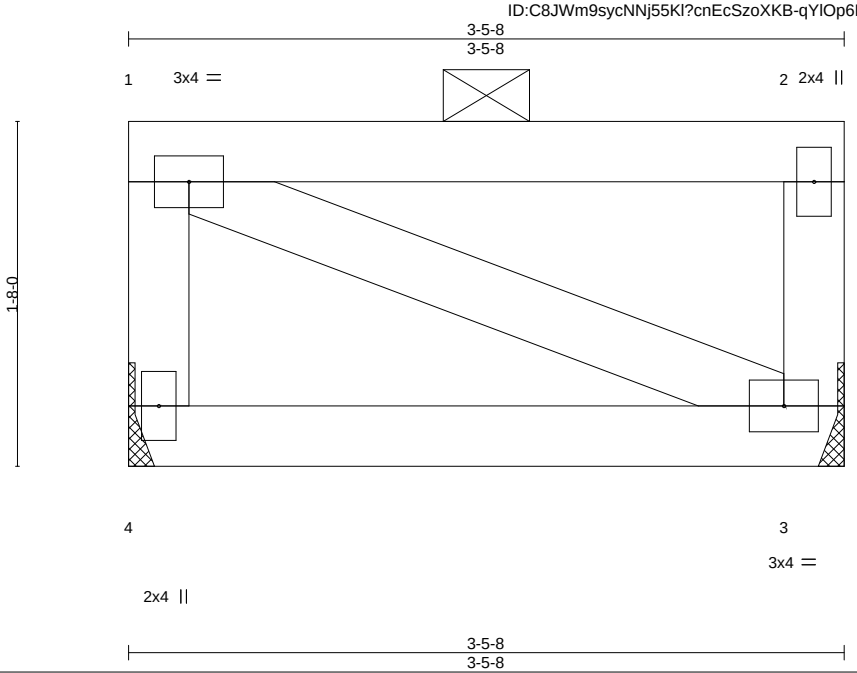

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	0.00	4	****	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.04	Vert(CT)	-0.00	3-4	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 18 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Grav 4=174(LC 1), 3=174(LC 1)

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

NOTES-
1) Refer to girder(s) for truss to truss connections.
2) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	PB1	Piggyback	15	1	I48568138
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:14 2021 Page 1
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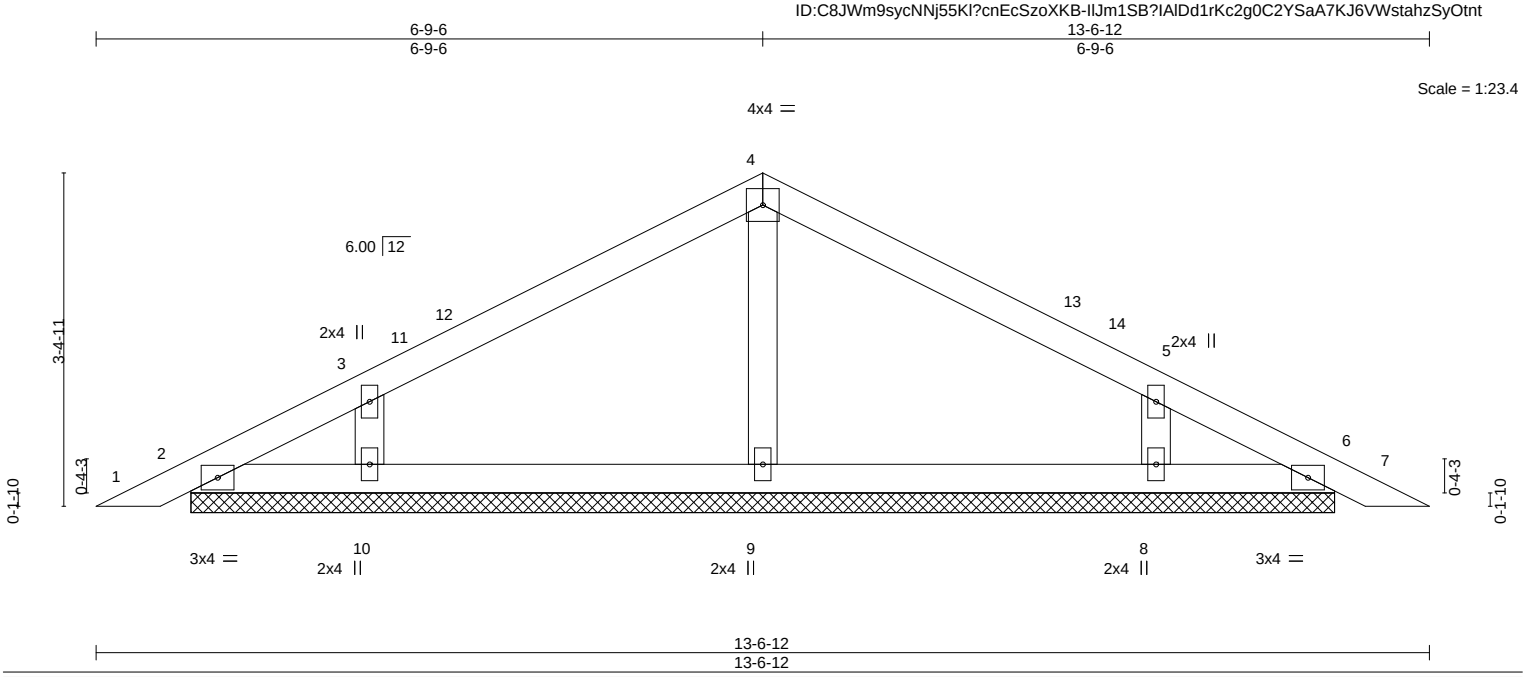

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	7	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 46 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 11-7-10.
(lb) - Max Horz 2=44(LC 14)
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 except 9=288(LC 1), 10=287(LC 21), 8=287(LC 22)

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=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-9-6, Exterior(2) 3-9-6 to 9-9-6, Interior(1) 9-9-6 to 10-2-13 , Exterior(2) 10-2-13 to 13-2-13 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 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) 2, 6, 10, 8.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

October 29,2021

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

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	PB1A	Piggyback	4	2	I48568139
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:15 2021 Page 1
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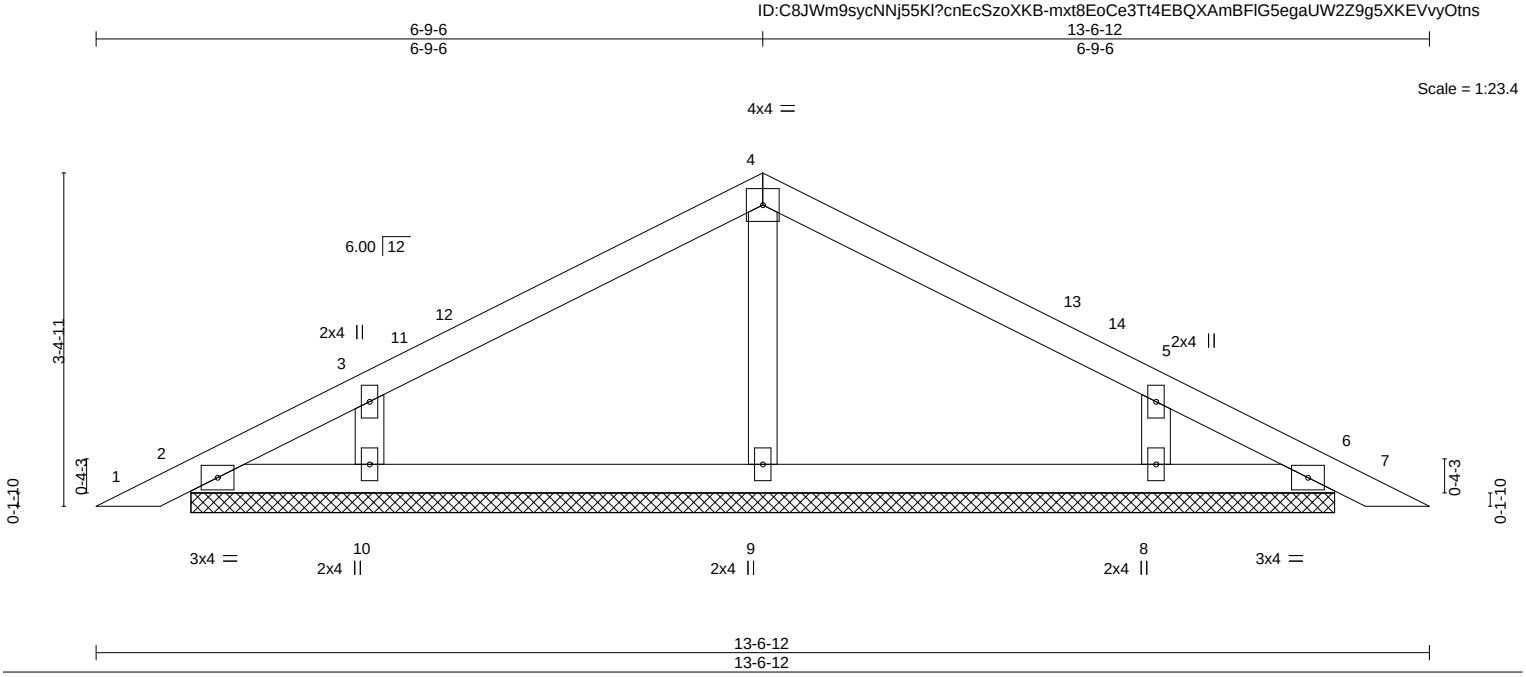

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	6	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 92 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 11-7-10.
(lb) - Max Horz 2=44(LC 14)
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 except 9=288(LC 1), 10=287(LC 21), 8=287(LC 22)

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

NOTES-
1) 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
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=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-9-6, Exterior(2) 3-9-6 to 9-9-6, Interior(1) 9-9-6 to 10-2-13 , Exterior(2) 10-2-13 to 13-2-13 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) Gable requires continuous bottom chord bearing.
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 with a clearance greater than 6-0-0 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.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

October 29,2021

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

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	PB1GE	GABLE	2	1	I48568140
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:17 2021 Page 1
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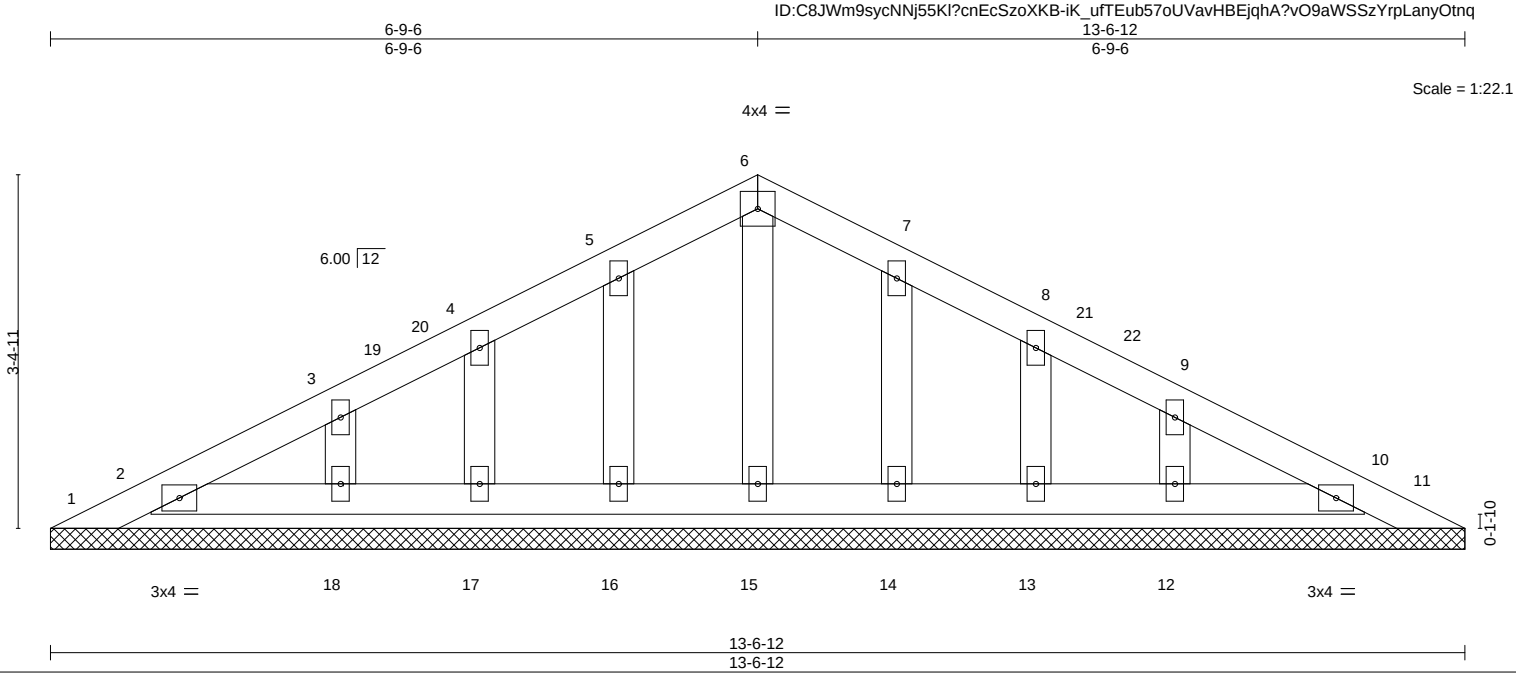

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 56 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
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 13-6-12.
(lb) - Max Horz 1=-44(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 2, 10, 16, 17, 18, 14, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 2, 10, 15, 16, 17, 18, 14, 13, 12

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=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-15 to 3-3-15, Exterior(2) 3-3-15 to 3-9-6, Corner(3) 3-9-6 to 9-9-6, Exterior(2) 9-9-6 to 10-2-13 , Corner(3) 10-2-13 to 13-2-13 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 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, 2, 10, 16, 17, 18, 14, 13, 12.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

October 29,2021

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	V01	GABLE	1	1	I48568141
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:19 2021 Page 1
ID:C8JWm9sycNNj55Kl?cnEcSzoXKB-fi6f49F87iNWjpkIPcGBv6GI9Bp2_LpF09ISegyOtno

15-4-11 30-9-5
15-4-11 15-4-11

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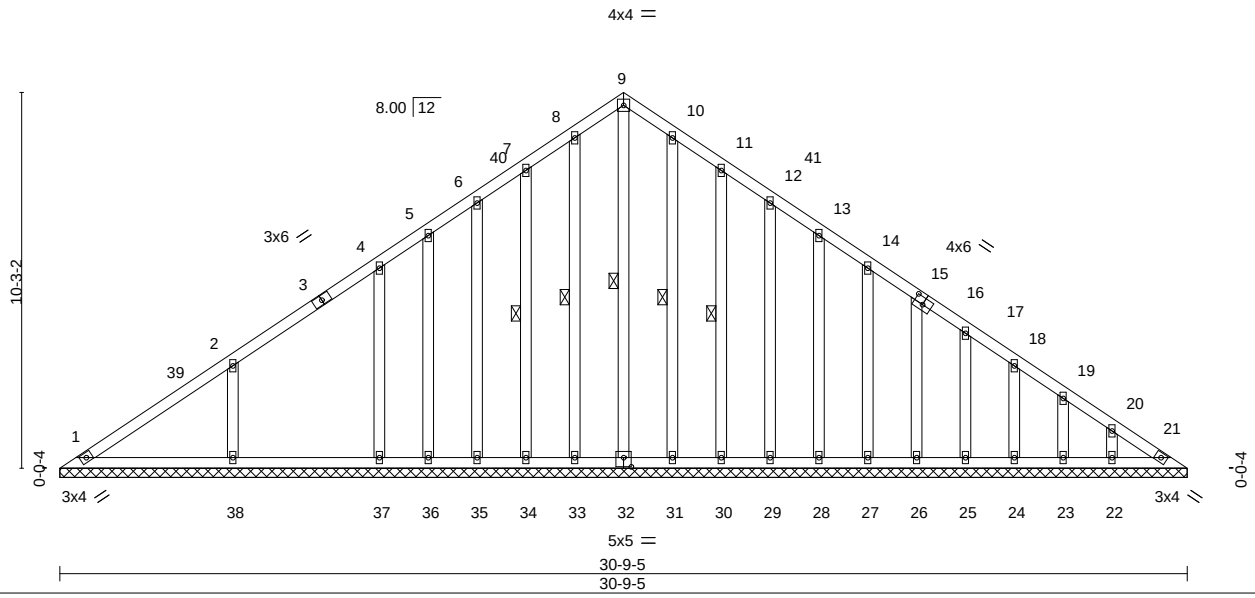

Plate Offsets (X,Y)-- [16:0-3-0,0-2-4], [32:0-2-8,0-3-0]

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	0.25	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	YES	WB	0.11	Horz(CT)	0.01	21	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 241 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.
WEBS 1 Row at midpt 9-32, 8-33, 7-34, 10-31, 11-30

REACTIONS. All bearings 30-9-5.
(lb) - Max Horz 1=-201(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 33, 34, 35, 36, 37, 21, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22 except 38=-125(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 1, 32, 33, 34, 35, 36, 37, 21, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22 except 38=400(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-38=-295/165

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-6-10, Interior(1) 3-6-10 to 12-3-13, Exterior(2) 12-3-13 to 18-5-8, Interior(1) 18-5-8 to 27-2-11, Exterior(2) 27-2-11 to 30-3-9 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 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) 1, 33, 34, 35, 36, 37, 21, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22 except (jt=lb) 38=125.

October 29,2021

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	V02	Valley	1	1	I48568142
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:21 2021 Page 1
ID:C8JWm9sycNNj55Kl?cnEcSzoXKB-b5EPVrHOfJdEz6ugW1If_XLfX?VuSDtYTTnYjYyOtnm

13-10-11 | 27-9-5
13-10-11 | 13-10-11

Scale = 1:57.5

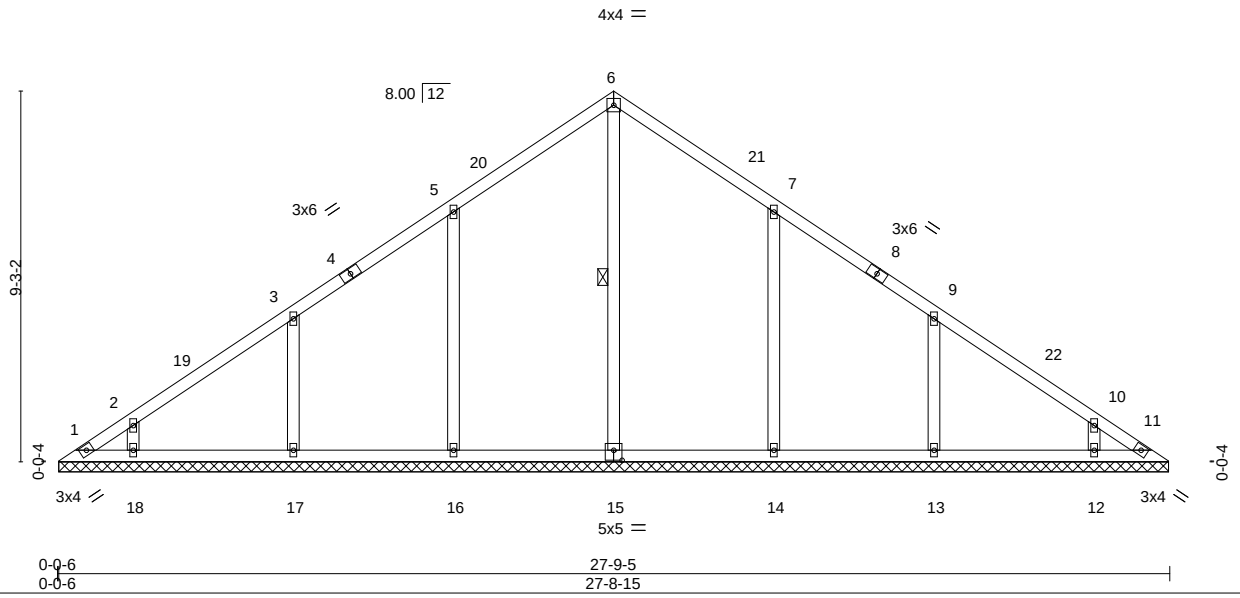

Plate Offsets (X,Y)-- [15:0-2-8,0-3-0]

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 132 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.
WEBS 1 Row at midpt 6-15

REACTIONS. All bearings 27-8-9.
(lb) - Max Horz 1=-181(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 18, 12, 11 except 16=-112(LC 10), 17=-103(LC 10), 14=-112(LC 11), 13=-103(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 15=408(LC 20), 16=403(LC 17), 17=327(LC 17), 18=279(LC 17), 14=402(LC 18), 13=327(LC 18), 12=279(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-16=-266/152, 3-17=-252/144, 7-14=-265/152, 9-13=-252/145

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 10-10-11, Exterior(2) 10-10-11 to 16-10-11, Interior(1) 16-10-11 to 24-3-9, Exterior(2) 24-3-9 to 27-3-9 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 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) 1, 18, 12, 11 except (jt=lb) 16=112, 17=103, 14=112, 13=103.

October 29,2021

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

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	V03	Valley	1	1	I48568143
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:22 2021 Page 1
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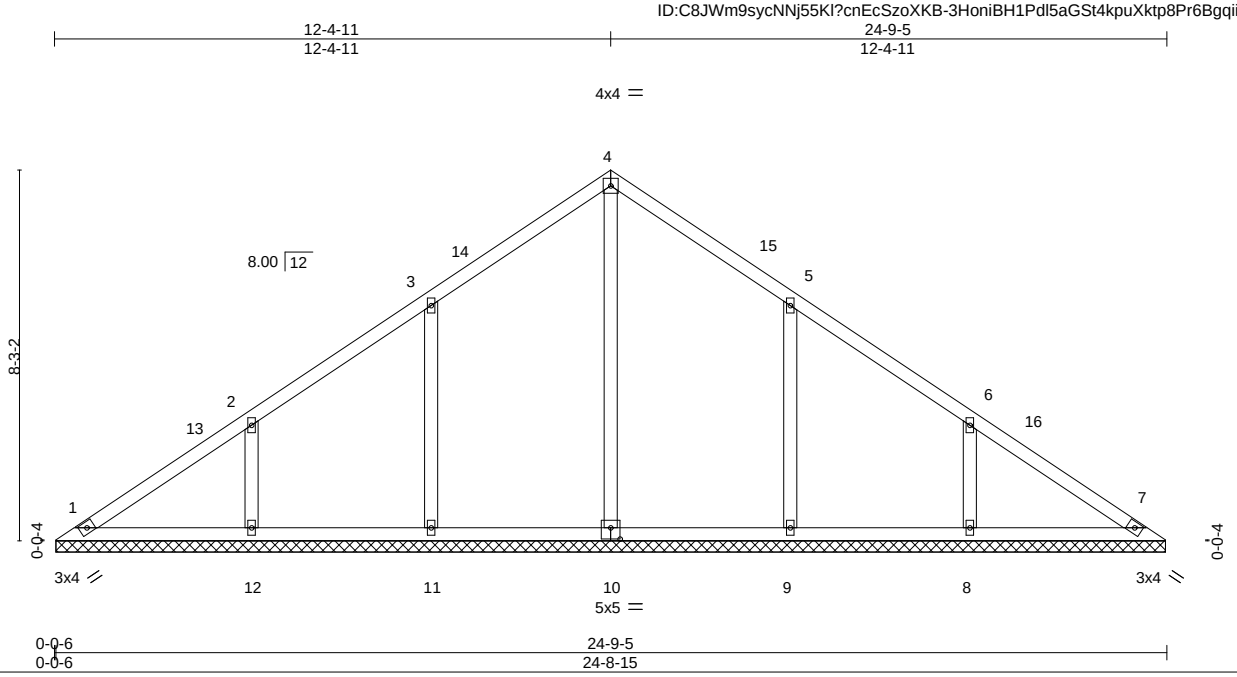


Plate Offsets (X,Y)-- [10:0-2-8,0-3-0]

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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 113 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 24-8-9.
(lb) - Max Horz 1=-161(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 11=-110(LC 10), 12=-112(LC 10), 9=-110(LC 11), 8=-112(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=400(LC 20), 11=395(LC 17), 12=357(LC 17), 9=395(LC 18), 8=357(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-262/151, 2-12=-267/150, 5-9=-262/150, 6-8=-267/150

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 9-4-11, Exterior(2) 9-4-11 to 15-4-11, Interior(1) 15-4-11 to 21-3-9, Exterior(2) 21-3-9 to 24-3-9 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 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) 1 except (jt=lb) 11=110, 12=112, 9=110, 8=112.

October 29,2021

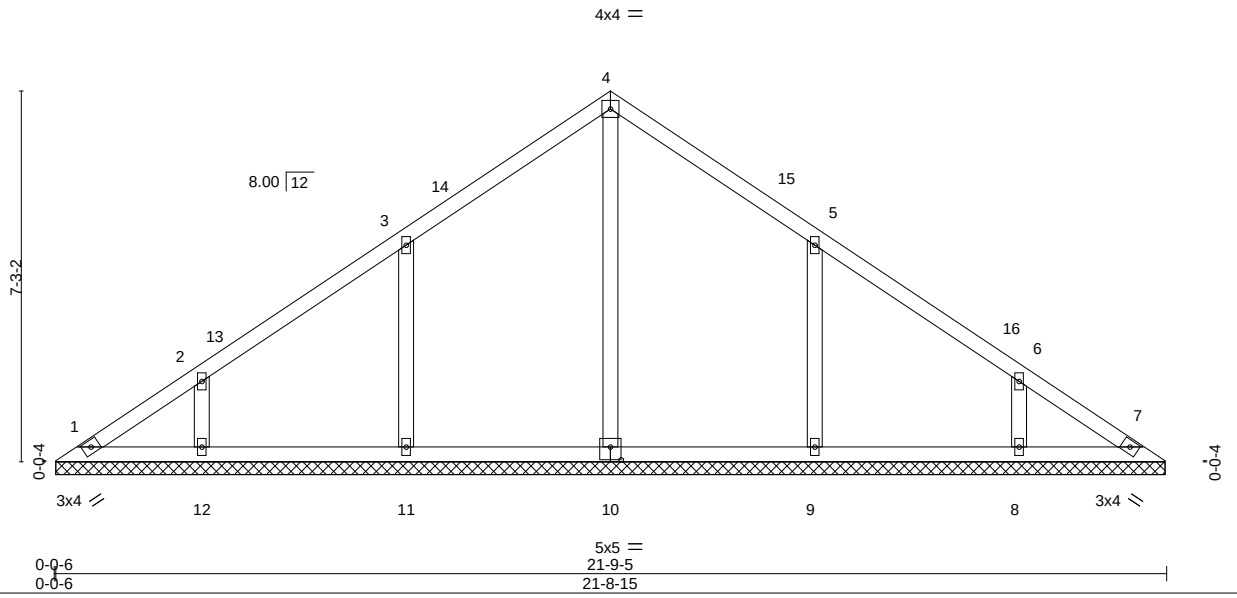
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	V04	Valley	1	1	I48568144
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:23 2021 Page 1
ID:C8JWm9sycNNj55Kl?cnEcSzoXKB-XUMAvXIfAxtyCQ13eRK73yQ_rpAOw8?rxnGfnRyOtnk

10-10-11 | 21-9-5
10-10-11 | 10-10-11

Scale = 1:45.1



0-0-6 | 21-9-5
0-0-6 | 21-8-15

Plate Offsets (X,Y)-- [10:0-2-8,0-3-0]

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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	7	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 21-8-9.
(lb) - Max Horz 1=-140(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 8 except 11=-116(LC 10), 9=-116(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=384(LC 20), 11=414(LC 17), 12=282(LC 1), 9=414(LC 18), 8=282(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-274/157, 5-9=-274/157

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 7-10-11, Exterior(2) 7-10-11 to 13-10-11, Interior(1) 13-10-11 to 18-3-9, Exterior(2) 18-3-9 to 21-3-9 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 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) 1, 12, 8 except (jt=lb) 11=116, 9=116.

October 29,2021

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	V05	Valley	1	1	I48568145
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:24 2021 Page 1
ID:C8JWm9sycNNj55Kl?cnEcSzoXKB-?gvY7tJHxE?pqacFB9sMc9z7oCVZfc8?9R?DKtyOtnj

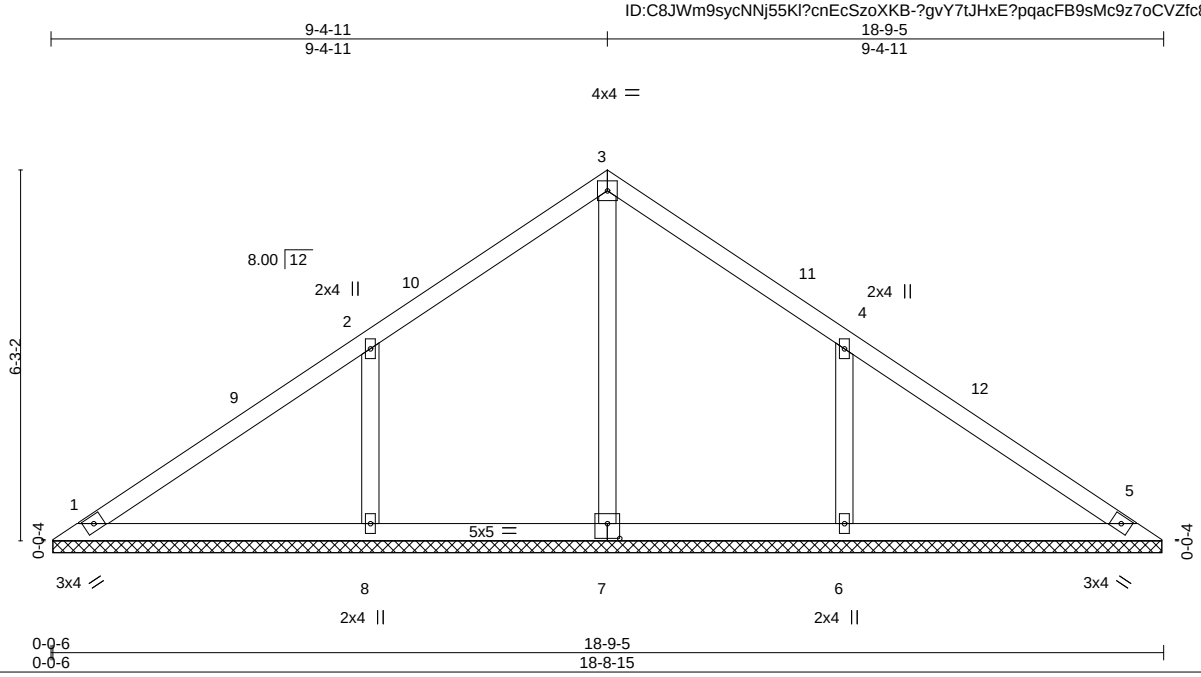

Plate Offsets (X,Y)-- [7:0-2-8,0-3-0]

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	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 77 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 18-8-9.
(lb) - Max Horz 1=120(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-143(LC 10), 6=-143(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=449(LC 17), 6=449(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-332/186, 4-6=-332/186

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 6-4-11, Exterior(2) 6-4-11 to 12-4-11, Interior(1) 12-4-11 to 15-3-9, Exterior(2) 15-3-9 to 18-3-9 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 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 except (jt=lb) 8=143, 6=143.

October 29,2021

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

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	V06	Valley	1	1	I48568146
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:25 2021 Page 1
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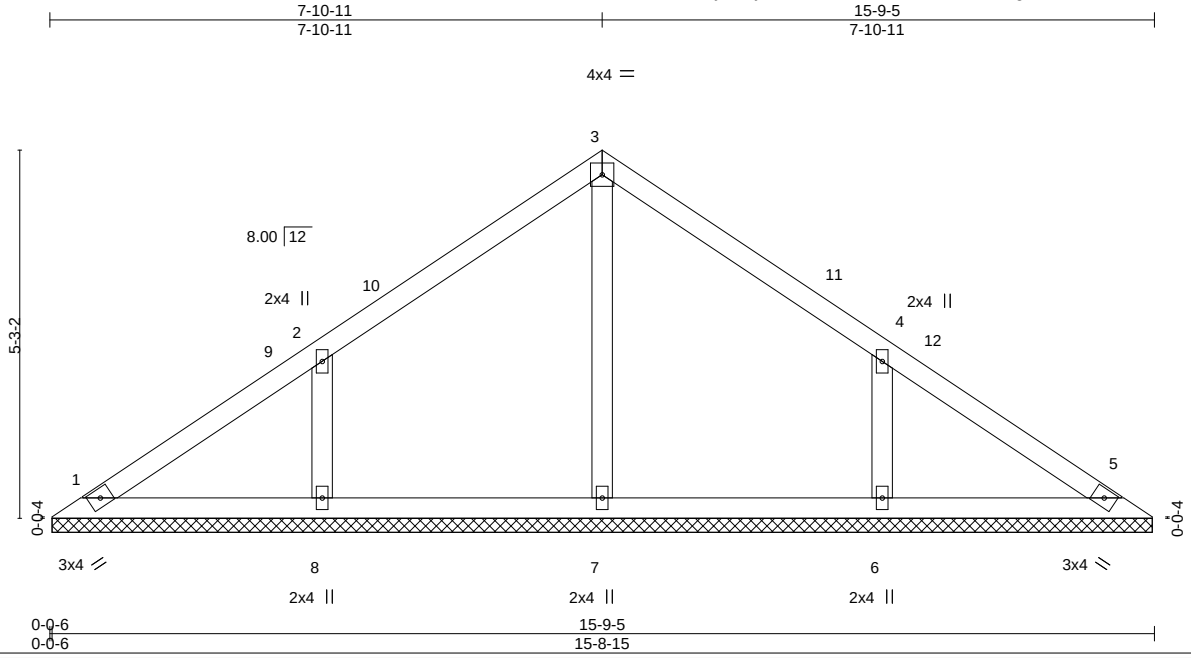

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 63 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 15-8-9.
(lb) - Max Horz 1=100(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-117(LC 10), 6=-117(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=251(LC 1), 8=359(LC 17), 6=358(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-271/154, 4-6=-271/154

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-10-11, Exterior(2) 4-10-11 to 10-10-11, Interior(1) 10-10-11 to 12-3-9, Exterior(2) 12-3-9 to 15-3-9 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 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 except (jt=lb) 8=117, 6=117.

October 29,2021

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TRENCO
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	V07	Valley	1	1	I48568147
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:26 2021 Page 1
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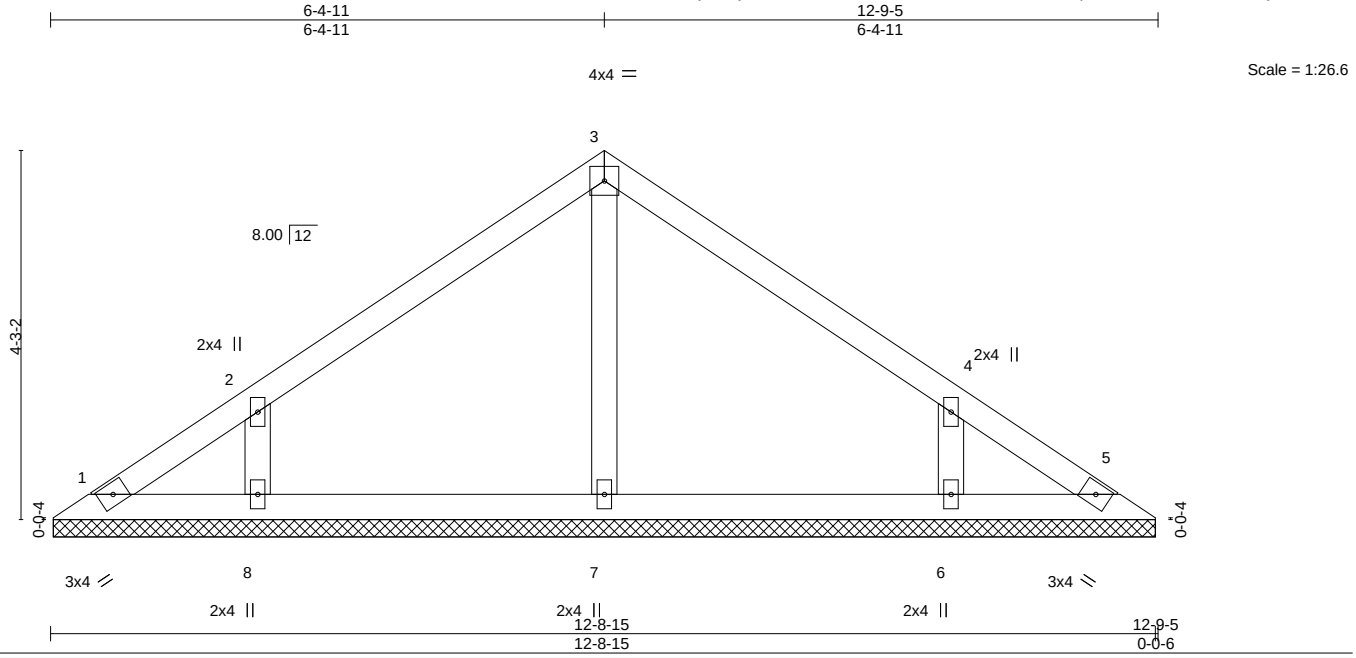

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 49 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 12-8-9.
(lb) - Max Horz 1=-80(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-102(LC 10), 6=-102(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=266(LC 1), 8=302(LC 17), 6=302(LC 18)

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=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 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=102, 6=102.

October 29,2021

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

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	V08	Valley	1	1	I48568148
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:27 2021 Page 1
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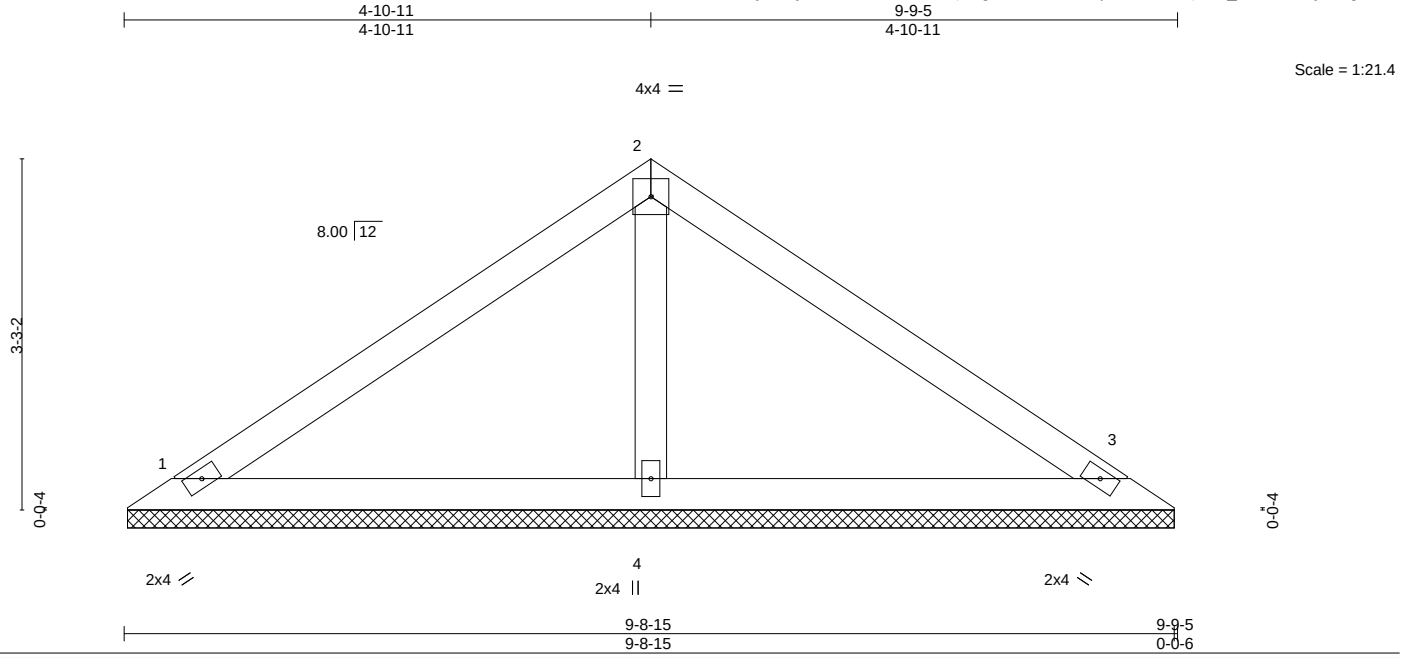

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 34 lb	FT = 20%

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

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

REACTIONS. (size) 1=9-8-9, 3=9-8-9, 4=9-8-9
Max Horz 1=59(LC 9)
Max Uplift 1=-26(LC 10), 3=-34(LC 11), 4=-8(LC 10)
Max Grav 1=174(LC 1), 3=174(LC 1), 4=358(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=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

October 29,2021

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

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	V09	Valley	1	1	I48568149
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:27 2021 Page 1
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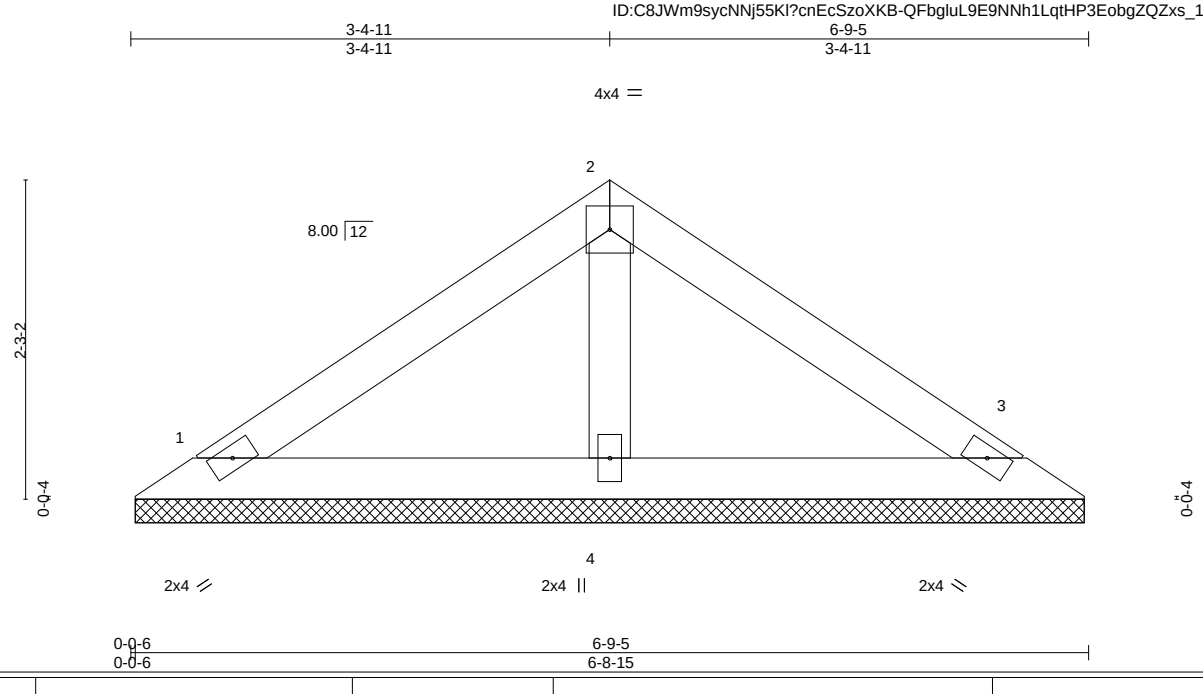

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 23 lb	FT = 20%

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

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

REACTIONS. (size) 1=6-8-9, 3=6-8-9, 4=6-8-9
Max Horz 1=39(LC 7)
Max Uplift 1=-22(LC 10), 3=-28(LC 11)
Max Grav 1=126(LC 1), 3=126(LC 1), 4=214(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=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

October 29,2021

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

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	V10	Valley	1	1	I48568150
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:28 2021 Page 1
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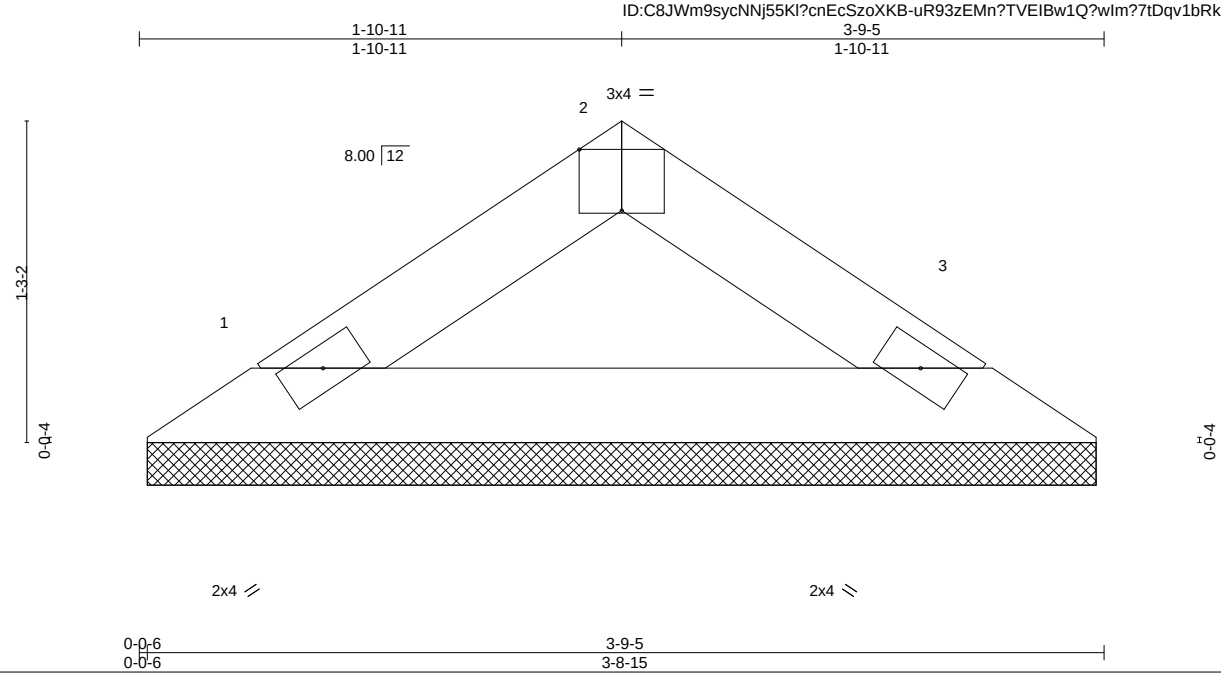

Plate Offsets (X,Y)-- [2:0-2-0,Edge]

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: 11 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 3-9-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-8-9, 3=3-8-9
Max Horz 1=19(LC 7)
Max Uplift 1=-9(LC 10), 3=-9(LC 11)
Max Grav 1=113(LC 1), 3=113(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=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

October 29,2021

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

Job	Truss	Truss Type	Qty	Ply	WAG-11
21104371	V11	Valley	1	1	I48568151
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:38:29 2021 Page 1
ID:C8JWm9sycNNj55Kl?cnEcSzoXKB-MdjRAaNQmnd5wLVD_iRXJDg_EDEFKtRkJjj_?5yOtne

8-11-6 | 17-10-13
8-11-6 | 8-11-6

Scale = 1:37.1

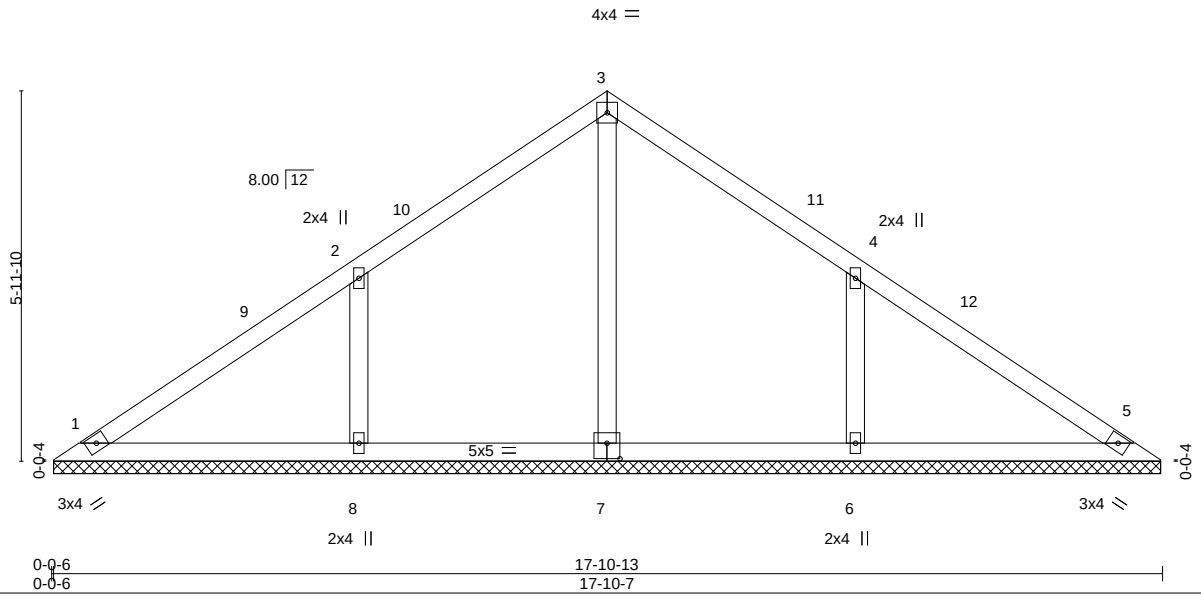

Plate Offsets (X,Y)-- [7:0-2-8,0-3-0]

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	0.27	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	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 73 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 17-10-1.
(lb) - Max Horz 1=114(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-135(LC 10), 6=-134(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=420(LC 17), 6=420(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-312/176, 4-6=-312/175

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 5-11-6, Exterior(2) 5-11-6 to 11-11-6, Interior(1) 11-11-6 to 14-5-0, Exterior(2) 14-5-0 to 17-5-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 with a clearance greater than 6-0-0 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 except (jt=lb) 8=135, 6=134.

October 29,2021

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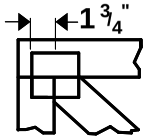
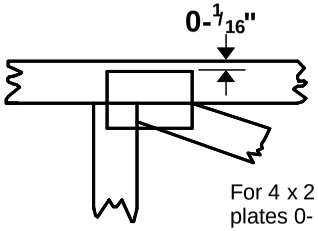
Symbols

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.

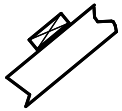
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

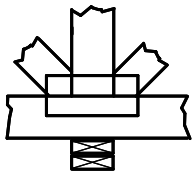
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

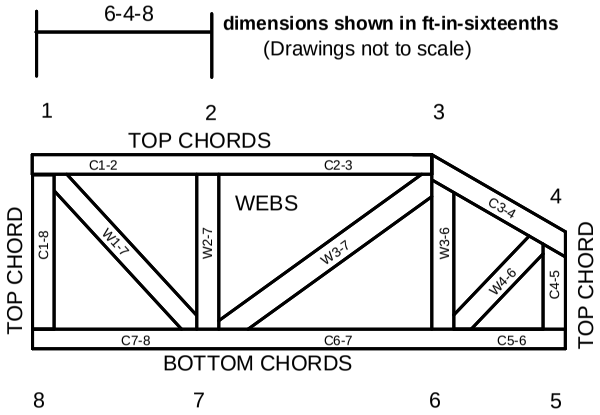


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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
A MiTek Affiliate

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.