ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 20031164
NOF-9

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: I40724351 thru I40724365

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844

March 24,2020

Sevier, Scott

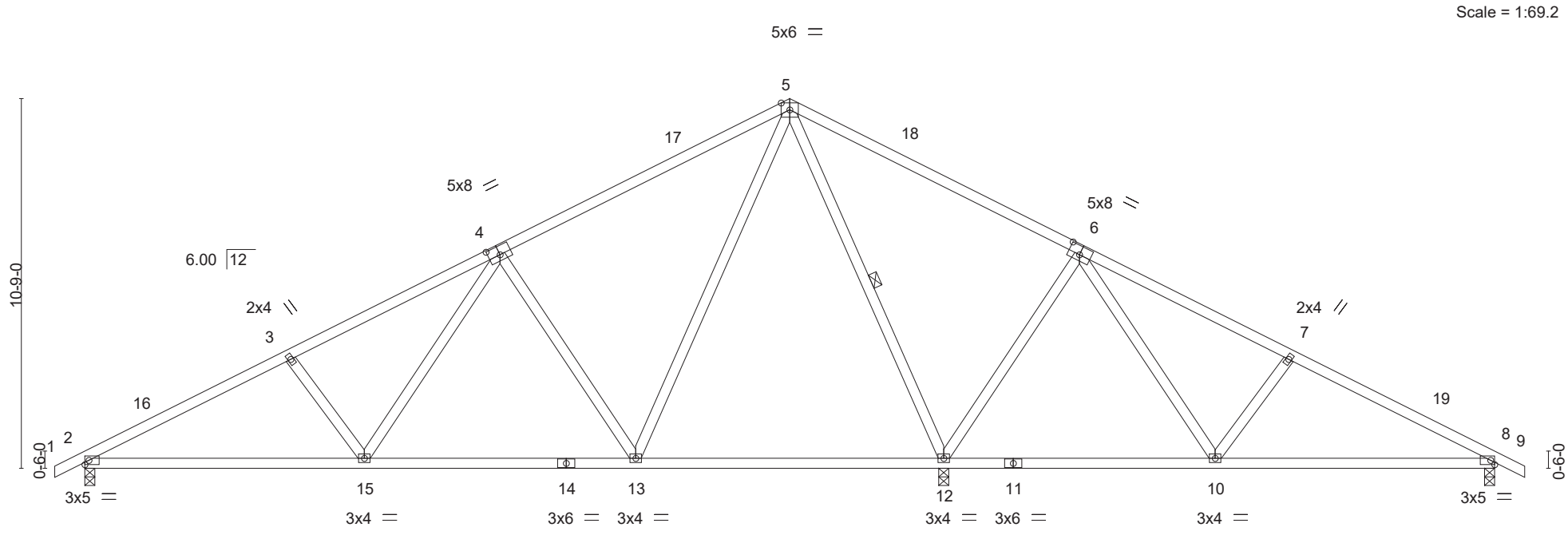
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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	NOF-9
20031164	A	COMMON	6	1	I40724351
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 12:05:28 2020 Page 1
ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-1cpo_9BIgfNE04Y9tS8LOURzffQYuHhCb4DJ2hzY34b

-0-10-8	5-11-14	12-0-14	20-6-0	28-11-2	35-0-2	41-0-0	41-10-8
0-10-8	5-11-14	6-1-0	8-5-2	8-5-2	6-1-0	5-11-14	0-10-8

Scale = 1:69.2



8-1-9	16-0-4	24-11-12	32-10-7	41-0-0
8-1-9	7-10-11	8-11-8	7-10-11	8-1-9

Plate Offsets (X,Y)-- [4:0-4-0,0-3-0], [6:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.37	12-13	>806	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.50	12-13	>601	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 218 lb	FT = 20%

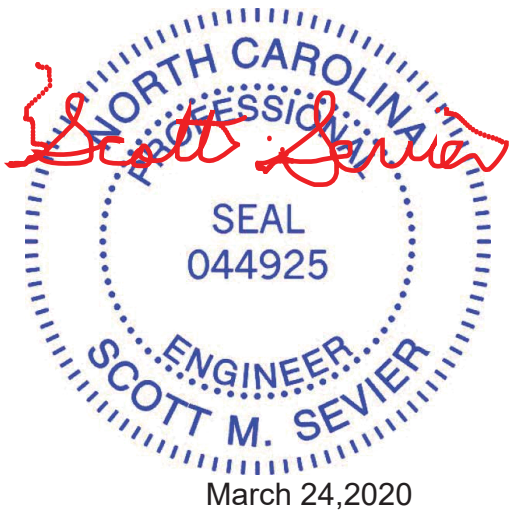
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-12

REACTIONS. (size) 8=0-3-8, 12=0-3-8, 2=0-3-8
Max Horz 2=146(LC 10)
Max Uplift 8=-87(LC 11), 12=-137(LC 10), 2=-113(LC 10)
Max Grav 8=484(LC 22), 12=2107(LC 1), 2=892(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1338/169, 3-4=-1154/177, 4-5=-550/161, 5-6=0/761, 6-7=-302/155, 7-8=-490/117
BOT CHORD 2-15=-227/1125, 13-15=-121/733, 10-12=-279/96, 8-10=-44/380
WEBS 5-12=-1471/180, 6-12=-704/243, 6-10=-45/508, 7-10=-306/144, 5-13=-128/872, 4-13=-688/242, 4-15=-43/483, 3-15=-270/142

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) 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 17-6-0, Exterior(2) 17-6-0 to 23-6-0, Interior(1) 23-6-0 to 38-10-8, Exterior(2) 38-10-8 to 41-10-8 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) 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, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 8, 137 lb uplift at joint 12 and 113 lb uplift at joint 2.



March 24,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY TRENCO
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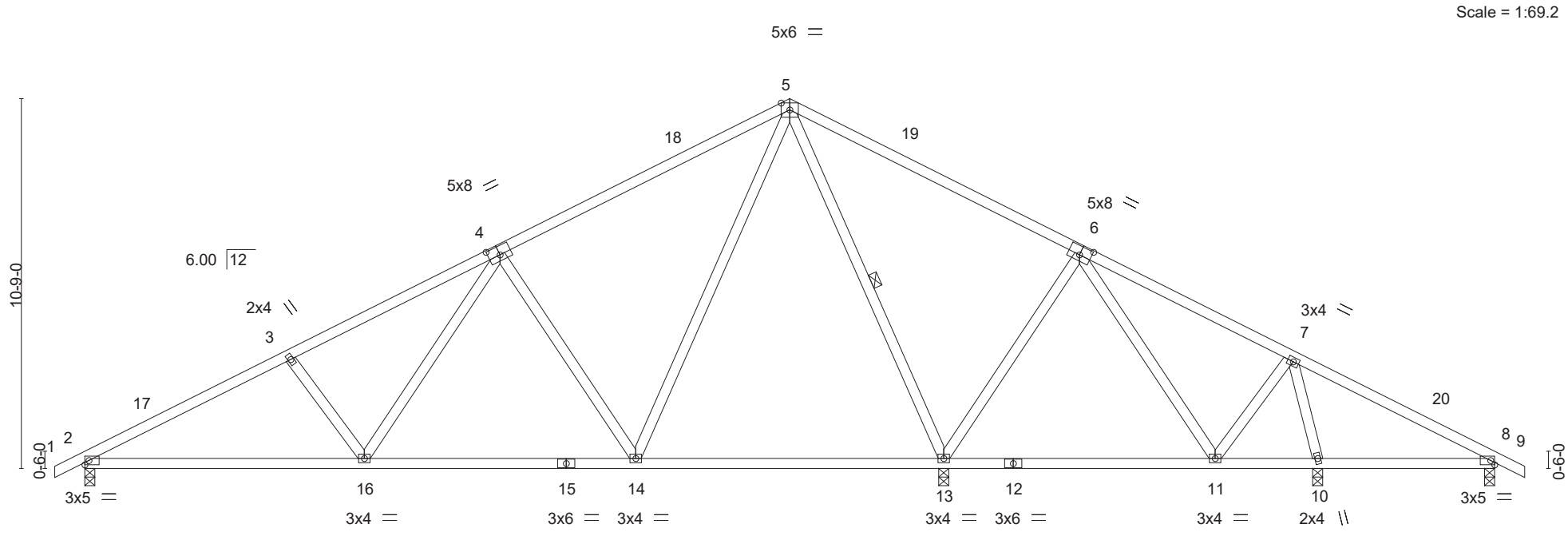
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	NOF-9
20031164	A1	COMMON	3	1	I40724352
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 12:05:29 2020 Page 1
ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-VoNBCVBwRyV5dE7MR9fawi_823n3dl6Mqkzta7zY34a

-0-10-8	5-11-14	12-0-14	20-6-0	28-11-2	35-0-2	41-0-0	41-10-8
0-10-8	5-11-14	6-1-0	8-5-2	8-5-2	6-1-0	5-11-14	0-10-8

Scale = 1:69.2



8-1-9	16-0-4	24-11-12	32-10-7	35-10-4	36-0-0	41-0-0
8-1-9	7-10-11	8-11-8	7-10-11	2-11-13	0-1-12	5-0-0

Plate Offsets (X,Y)-- [4:0-4-0,0-3-0], [6:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.36	13-14	>817	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.48	13-14	>620	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 223 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-13

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=146(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 8, 10 except 13=-166(LC 10), 2=-108(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 8 except 13=1916(LC 2), 2=907(LC 1), 10=503(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1372/158, 3-4=-1188/167, 4-5=-575/168, 5-6=-14/625
BOT CHORD 2-16=-217/1155, 14-16=-112/780, 11-13=-280/99
WEBS 5-13=-1359/195, 6-13=-542/209, 6-11=-11/267, 5-14=-129/869, 4-14=-688/242, 4-16=-44/483, 3-16=-267/142, 7-10=-416/120

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) 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 17-6-0, Exterior(2) 17-6-0 to 23-6-0, Interior(1) 23-6-0 to 38-10-8, Exterior(2) 38-10-8 to 41-10-8 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) 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, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 10 except (jt=lb) 13=166, 2=108.

March 24,2020

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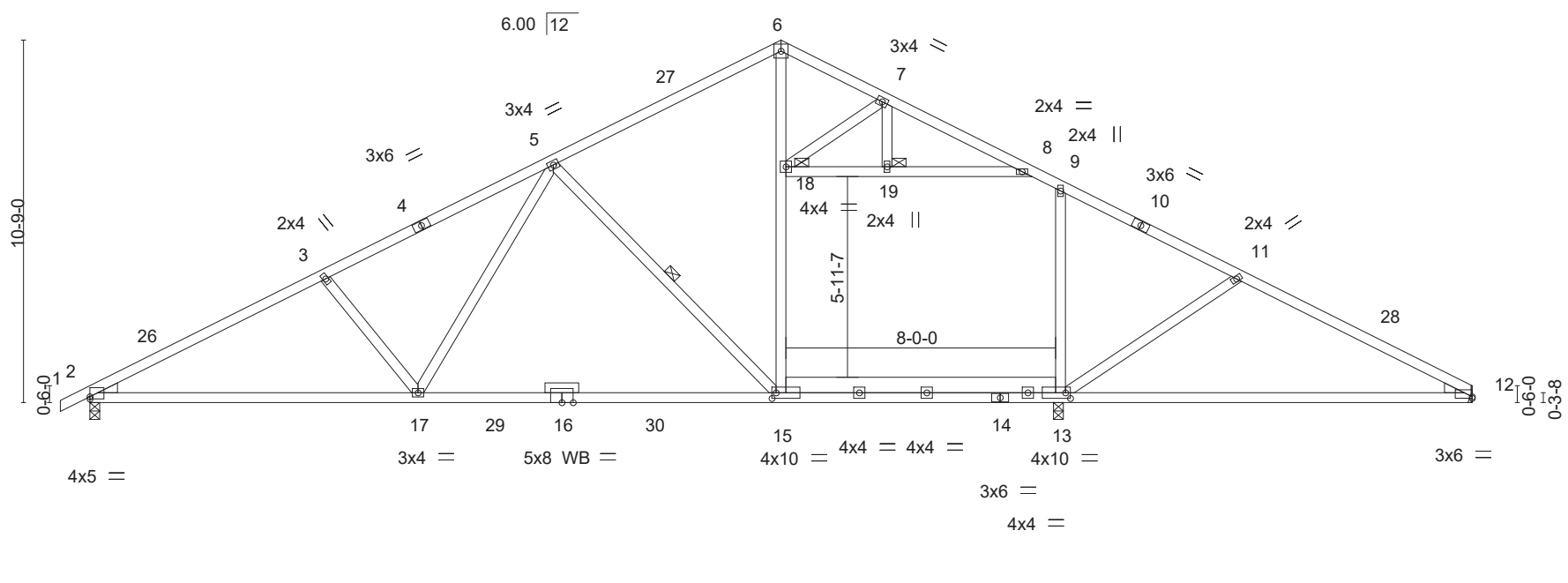
Job	Truss	Truss Type	Qty	Ply	NOF-9
20031164	A2	COMMON	9	1	I40724353
					Job Reference (optional)

The Building Center Inc., Gastonia, NC 28052 — 8.330 e Mar 10 2020 MiTek Industries, Inc. Tue Mar 24 10:59:03 2020 Page 1

ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-DWqLrjT2m2kKIza5BNBd2uJBcecoM6T_vjms9HzXkys

-0-10-8	6-11-14	13-8-15	20-6-0	23-7-12	27-3-1	34-0-2	41-0-0
0-10-8	6-11-14	6-9-1	6-9-1	3-1-12	3-7-5	6-9-1	6-11-14

Scale = 1:78.0



9-8-13	20-6-0	28-7-12	28-8-12	34-8-15	41-0-0
9-8-13	10-9-3	8-1-12	0-1-0	6-0-3	6-3-1

Plate Offsets (X,Y)-- [2:0-0-0,0-0-13], [12:0-0-0,0-0-9], [13:0-1-12,0-2-0], [15:0-1-8,0-2-0]

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	0.60	Vert(LL)	-0.36	15-17	>963	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.62	15-17	>561	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 237 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP DSS *Except*
	13-15: 2x6 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
WEDGE	

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-1-15 oc purlins. [PSA]
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 5-15
JOINTS	1 Brace at Jt(s): 18, 19

REACTIONS. (size) 2=0-3-8 (min. 0-1-8), 13=0-3-8 (min. 0-1-8), 12=Mechanical
Max Horz 2=152(LC 14)
Max Uplift 2=-160(LC 10), 13=-205(LC 11), 12=-35(LC 10)
Max Grav 2=1428(LC 1), 13=892(LC 22), 12=1015(LC 1)

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

TOP CHORD	2-26=-2508/250, 3-26=-2427/277, 3-4=-2303/254, 4-5=-2165/272, 5-27=-1456/195, 6-27=-1370/208, 6-7=-1412/224, 7-8=-1588/260, 8-9=-1467/178, 9-10=-1318/134, 10-11=-1426/120, 11-28=-1650/139, 12-28=-1722/112
BOT CHORD	2-17=-318/2210, 17-29=-185/1745, 16-29=-185/1745, 16-30=-185/1745, 15-30=-185/1745, 14-15=-27/1262, 13-14=-29/1249, 12-13=-74/1476
WEBS	3-17=-360/179, 5-17=-45/600, 5-15=-748/230, 15-18=-73/896, 6-18=-95/1004, 11-13=-397/180, 9-13=-431/207, 7-18=-271/136

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) 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 17-6-0, Exterior(2) 17-6-0 to 23-7-12, Interior(1) 23-7-12 to 38-0-0, Exterior(2) 38-0-0 to 41-0-0 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 2, 205 lb uplift at joint 13 and 35 lb uplift at joint 12.

March 24,2020

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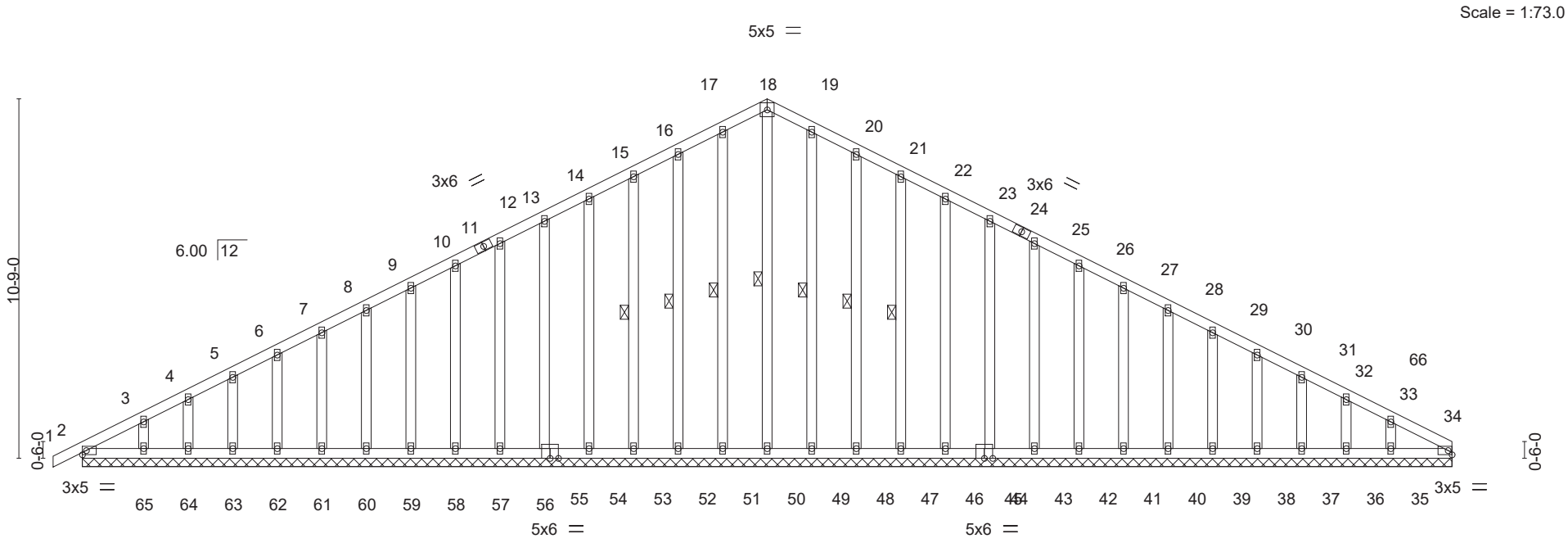
Job	Truss	Truss Type	Qty	Ply	NOF-9
20031164	A2GE	GABLE	1	1	I40724354
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 12:05:32 2020 Page 1
ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-wN3JqXEpjttgUhrx6IDHYKcszG?wqIaoWiBXBSzY34X

-0-10-8 20-6-0 41-0-0
0-10-8 20-6-0 20-6-0

Scale = 1:73.0



41-0-0
41-0-0

Plate Offsets (X,Y)-- [44:0-1-12,0-0-0], [45:0-0-0,0-1-12], [55:0-0-0,0-1-12], [56:0-1-12,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	1	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	34	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 363 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 18-50, 17-51, 16-52, 15-53, 19-49, 20-48, 21-47

REACTIONS. All bearings 41-0-0.
(lb) - Max Horz 2=149(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 2, 51, 52, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 49, 48, 47, 46, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35
Max Grav All reactions 250 lb or less at joint(s) 34, 2, 50, 51, 52, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 49, 48, 47, 46, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 16-17=-91/278, 17-18=-94/304, 18-19=-94/304, 19-20=-91/278

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) 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 3-2-0, Exterior(2) 3-2-0 to 16-4-13, Corner(3) 16-4-13 to 24-6-0, Exterior(2) 24-6-0 to 36-10-13, Corner(3) 36-10-13 to 41-0-0 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) 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, 51, 52, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 49, 48, 47, 46, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35.

March 24,2020

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Job	Truss	Truss Type	Qty	Ply	NOF-9
20031164	AGE	GABLE	1	1	I40724355
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 12:05:35 2020 Page 1
ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-KykSSZGh0oFFL9aWnQm_AzENCU0l1fJECgQBonzY34U

-0-10-8 20-6-0 41-0-0 41-10-8
0-10-8 20-6-0 20-6-0 0-10-8

Scale = 1:73.6

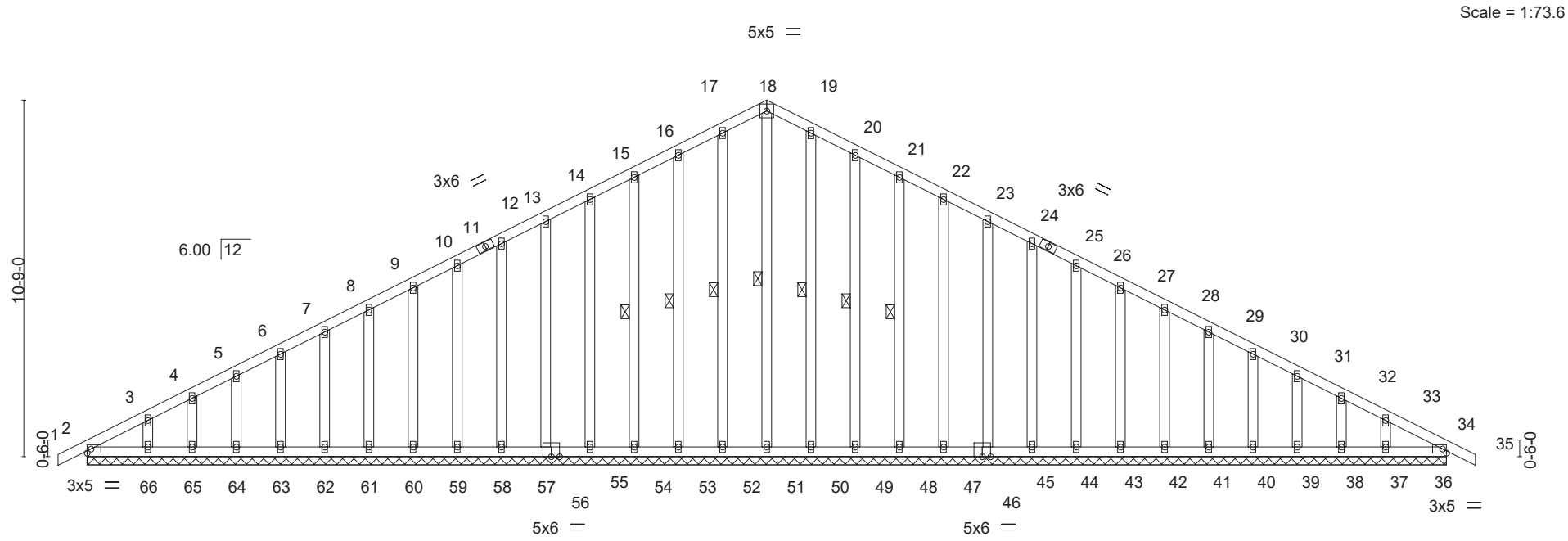


Plate Offsets (X,Y)-- [45:0-1-12,0-0-0], [46:0-0-0,0-1-12], [56:0-0-0,0-1-12], [57:0-1-12,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	34	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	34	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	34	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 364 lb	FT = 20%

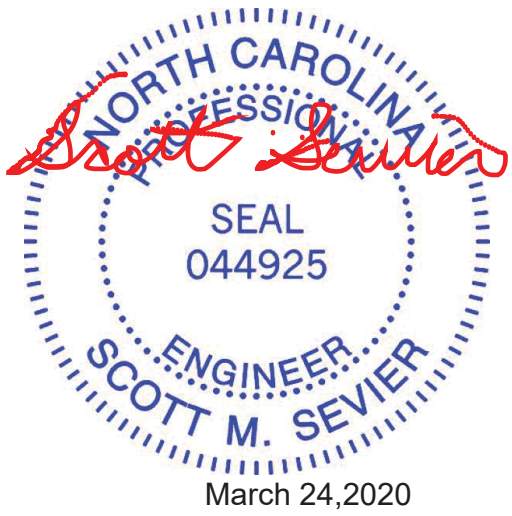
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 18-51, 17-52, 16-53, 15-54, 19-50, 20-49, 21-48

REACTIONS. All bearings 41-0-0.
(lb) - Max Horz 2=146(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 2, 52, 53, 54, 55, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 50, 49, 48, 47, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36
Max Grav All reactions 250 lb or less at joint(s) 34, 2, 51, 52, 53, 54, 55, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 50, 49, 48, 47, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 16-17=-90/280, 17-18=-93/306, 18-19=-93/306, 19-20=-90/280

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) 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 3-2-0, Exterior(2) 3-2-0 to 16-4-13, Corner(3) 16-4-13 to 24-6-0, Exterior(2) 24-6-0 to 37-9-5, Corner(3) 37-9-5 to 41-10-8 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, 52, 53, 54, 55, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 50, 49, 48, 47, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36.



March 24,2020

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

Job	Truss	Truss Type	Qty	Ply	NOF-9
20031164	B	COMMON	4	1	I40724356
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 12:05:36 2020 Page 1
ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-o8IqgvHJn6N6zJ9iL7HDjAmVtuAbm4cORK9lKDzY34T

-0-10-8	5-1-12	10-0-0	14-10-4	20-0-0	20-10-8
0-10-8	5-1-12	4-10-4	4-10-4	5-1-12	0-10-8

Scale = 1:50.2

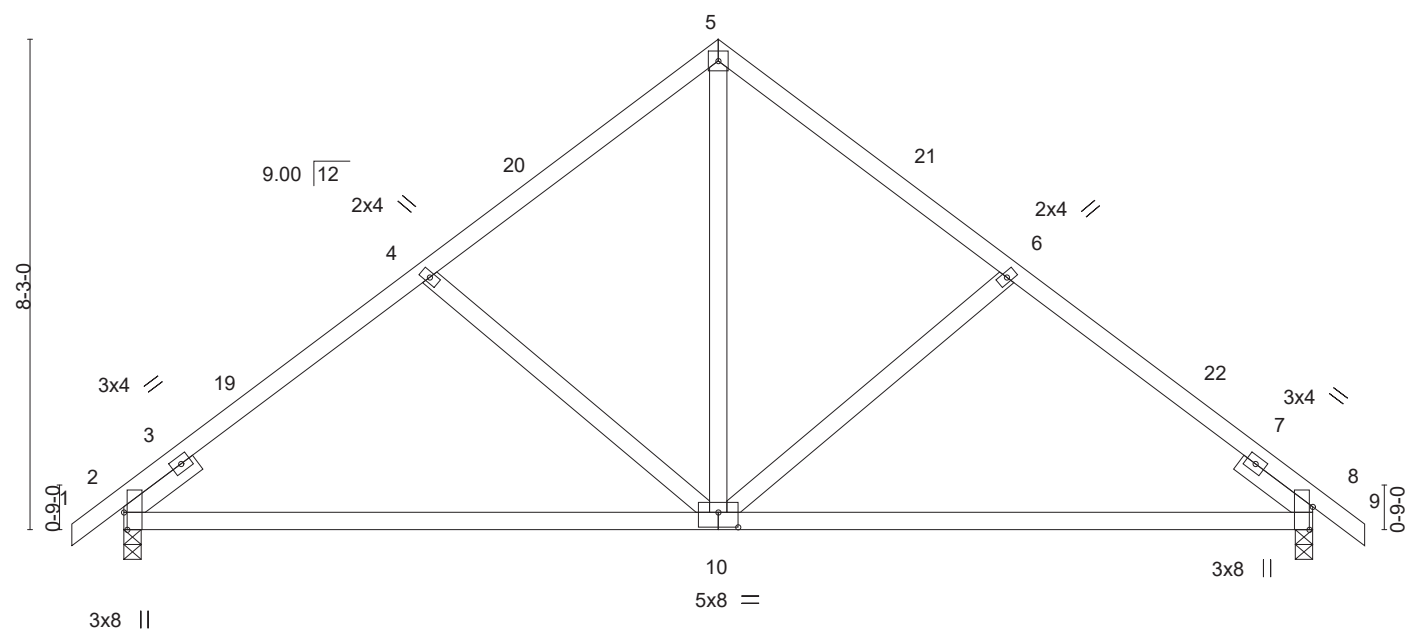

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [8:0-4-10,Edge], [10:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.14	10-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.28	10-17	>859	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 105 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 -x 1-6-0

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

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=165(LC 9)
Max Uplift 2=-76(LC 10), 8=-76(LC 11)
Max Grav 2=853(LC 1), 8=853(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-921/135, 4-5=-760/137, 5-6=-760/137, 6-8=-921/135
BOT CHORD 2-10=-107/746, 8-10=-25/722
WEBS 5-10=-57/560, 6-10=-277/169, 4-10=-277/168

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) 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 7-0-0, Exterior(2) 7-0-0 to 13-0-0, Interior(1) 13-0-0 to 17-10-8, Exterior(2) 17-10-8 to 20-10-8 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) 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) 2, 8.

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

Job	Truss	Truss Type	Qty	Ply	NOF-9
20031164	BGE	COMMON SUPPORTED GAB	1	1	I40724357
					Job Reference (optional)

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ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-GKsCtEHxYPVzbTkuvroSFOJj9Hi9VYzXg_vIsfzY34S

-0-10-8 10-0-0 20-0-0 20-10-8
0-10-8 10-0-0 10-0-0 0-10-8

Scale = 1:49.9

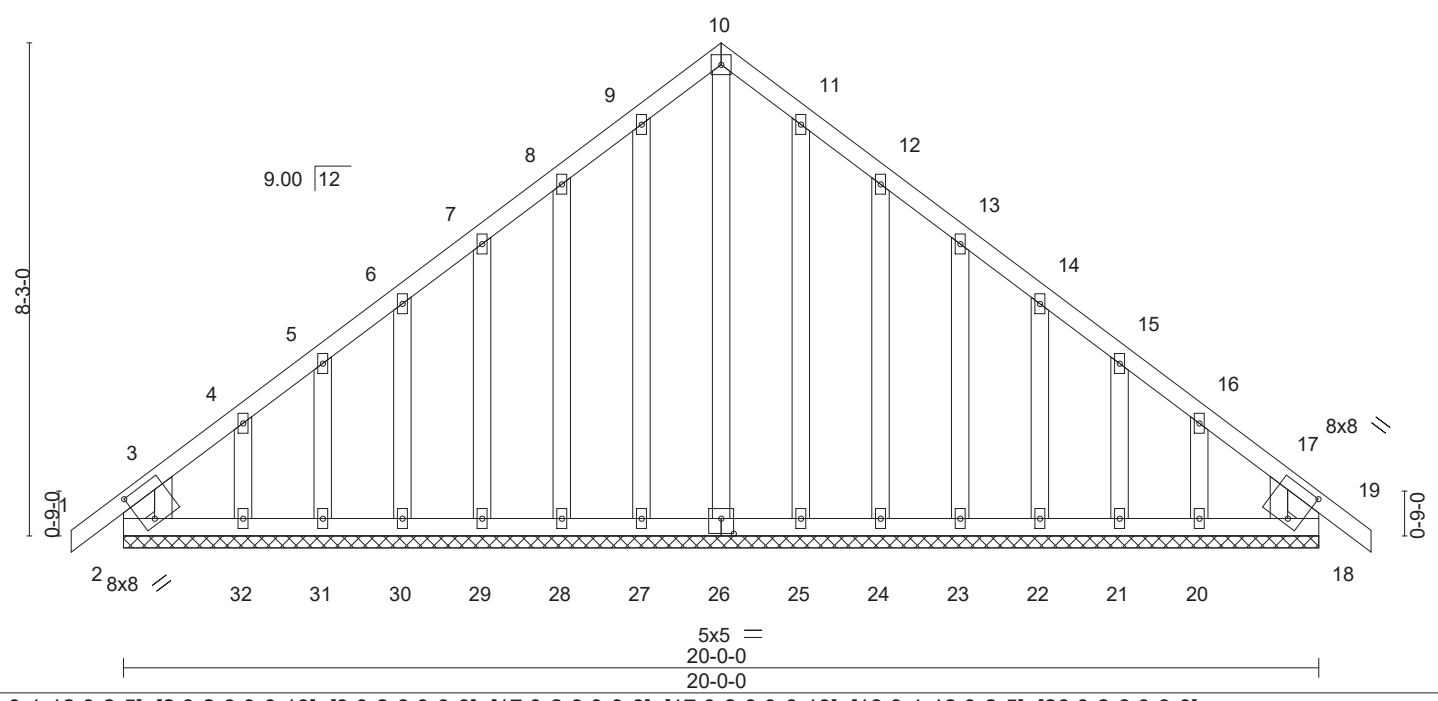

Plate Offsets (X,Y)-- [2:0-1-12,0-2-5], [2:0-2-9,0-6-13], [3:0-2-3,0-0-0], [17:0-2-3,0-0-0], [17:0-2-9,0-6-13], [18:0-1-12,0-2-5], [26:0-2-8,0-3-0]

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	0.07	Vert(LL)	-0.00	19	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	19	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 161 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 -x 0-8-8, Right 2x4 SP No.3 -x 0-8-8

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 20-0-0.
(lb) - Max Horz 2=-165(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20, 18
Max Grav All reactions 250 lb or less at joint(s) 2, 26, 27, 28, 29, 30, 31, 32, 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 (3-second gust) 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 2-0-0, Exterior(2) 2-0-0 to 7-0-0, Corner(3) 7-0-0 to 13-0-0, Exterior(2) 13-0-0 to 17-10-8, Corner(3) 17-10-8 to 20-10-8 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, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20, 18.

March 24,2020

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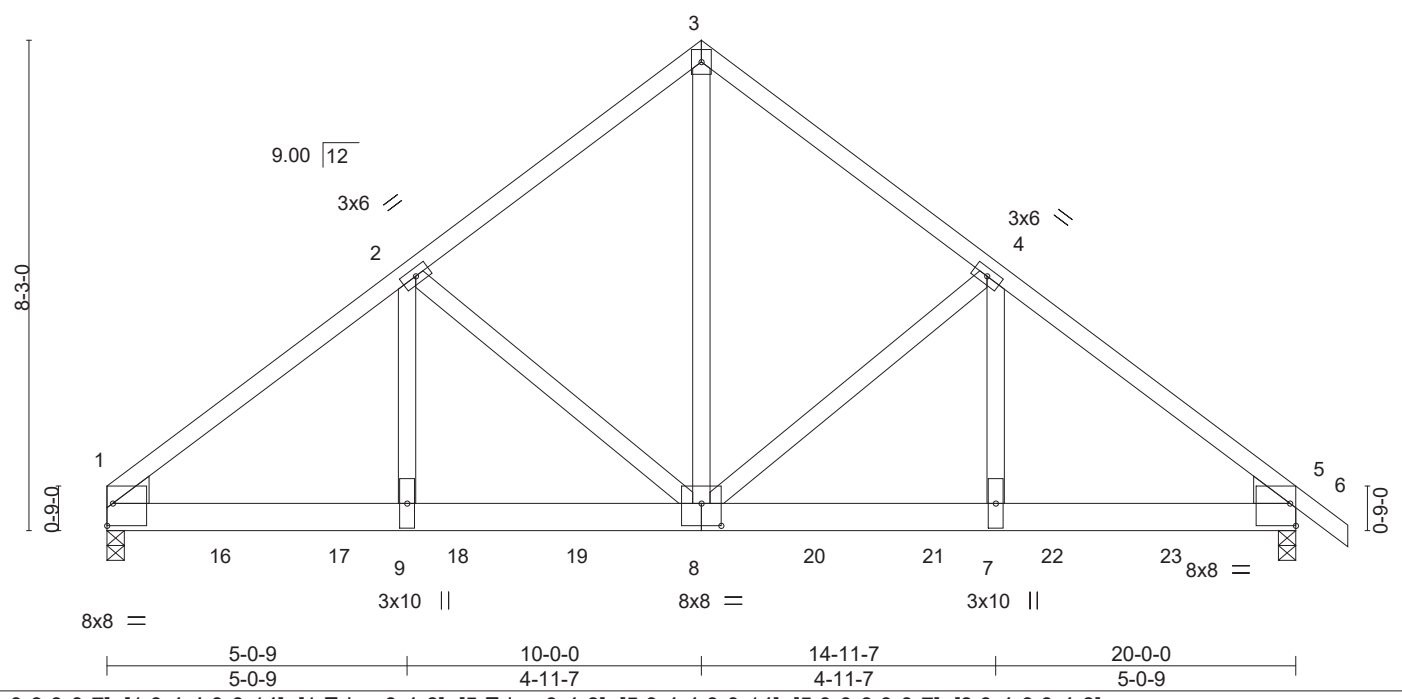
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	NOF-9
20031164	BGR	COMMON GIRDER	1	2	I40724358
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 12:05:39 2020 Page 1
ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-Cj_zlwJC41lgqmuH0GrwKpOz65DKzKLq7IOPxYzY34Q

5-0-9	10-0-0	14-11-7	20-0-0	20-10-8
5-0-9	4-11-7	4-11-7	5-0-9	0-10-8

Scale = 1:50.2



5-0-9	10-0-0	14-11-7	20-0-0
5-0-9	4-11-7	4-11-7	5-0-9

Plate Offsets (X,Y)-- [1:0-0-9,0-0-7], [1:0-4-4,0-0-14], [1:Edge,0-4-8], [5:Edge,0-4-8], [5:0-4-4,0-0-14], [5:0-0-9,0-0-7], [8:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.10	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.19	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MSH							Weight: 259 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
3-8: 2x4 SP No.2
WEDGE
Left: 2x6 SP No.1 , Right: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-10 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=-160(LC 25)
Max Uplift 1=-263(LC 8), 5=-276(LC 9)
Max Grav 1=5303(LC 1), 5=5307(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-6848/356, 2-3=-4868/318, 3-4=-4868/319, 4-5=-6844/355
BOT CHORD 1-9=-307/5400, 8-9=-307/5400, 7-8=-222/5396, 5-7=-222/5396
WEBS 3-8=-284/5466, 4-8=-2058/225, 4-7=-68/2292, 2-8=-2064/226, 2-9=-67/2294

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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=115mph (3-second gust) 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=263, 5=276.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1015 lb down and 55 lb up at 1-11-4, 1015 lb down and 55 lb up at 3-11-4, 1015 lb down and 55 lb up at 5-11-4, 1015 lb down and 55 lb up at 7-11-4, 1015 lb down and 55 lb up at 9-11-4, 1015 lb down and 55 lb up at 11-11-4, 1015 lb down and 55 lb up at 13-11-4, and 1015 lb down and 55 lb up at 15-11-4, and 1015 lb down and 55 lb up at 17-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	NOF-9
20031164	BGR	COMMON GIRDER	1	2	I40724358 Job Reference (optional)

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, 10-13=-20
   Concentrated Loads (lb)
   Vert: 8=-995(F) 16=-995(F) 17=-995(F) 18=-995(F) 19=-995(F) 20=-995(F) 21=-995(F) 22=-995(F) 23=-995(F)

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Job	Truss	Truss Type	Qty	Ply	NOF-9
20031164	V01	Valley	1	1	I40724359
					Job Reference (optional)

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ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-hvYLVGKqrKtXSwTTazM9t0xA3VikiwCzMx7yT_zY34P

9-1-0 (9-1-0) | 18-2-0 (9-1-0)

Scale = 1:41.9

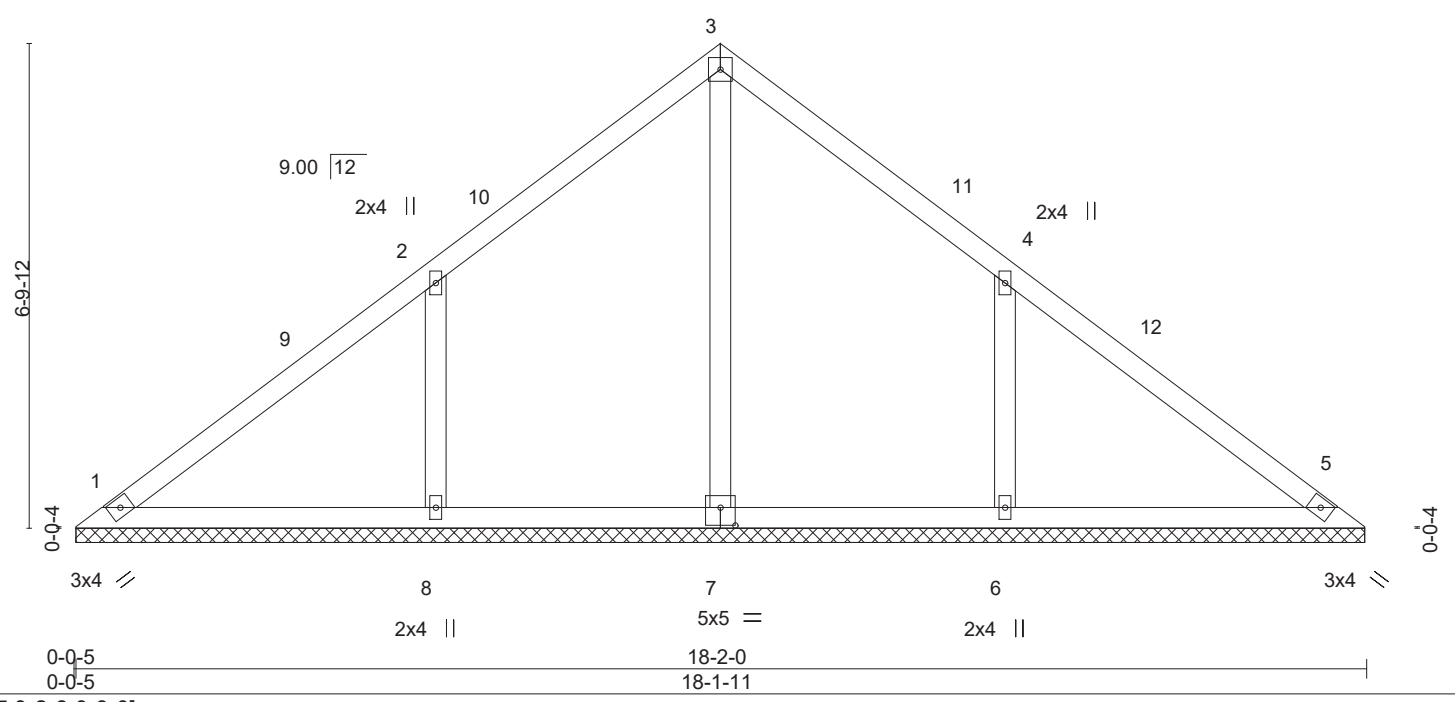

Plate Offsets (X,Y)-- [7:0-2-8,0-3-0]

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	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 78 lb	FT = 20%

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

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

REACTIONS. All bearings 18-1-5.
(lb) - Max Horz 1=-131(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-157(LC 10), 6=-157(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=351(LC 20), 8=491(LC 17), 6=491(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-324/198, 4-6=-324/198

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) 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) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 6-1-0, Exterior(2) 6-1-0 to 12-1-0, Interior(1) 12-1-0 to 14-8-12, Exterior(2) 14-8-12 to 17-8-12 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) 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, with BCDL = 10.0psf.
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=157, 6=157.

March 24,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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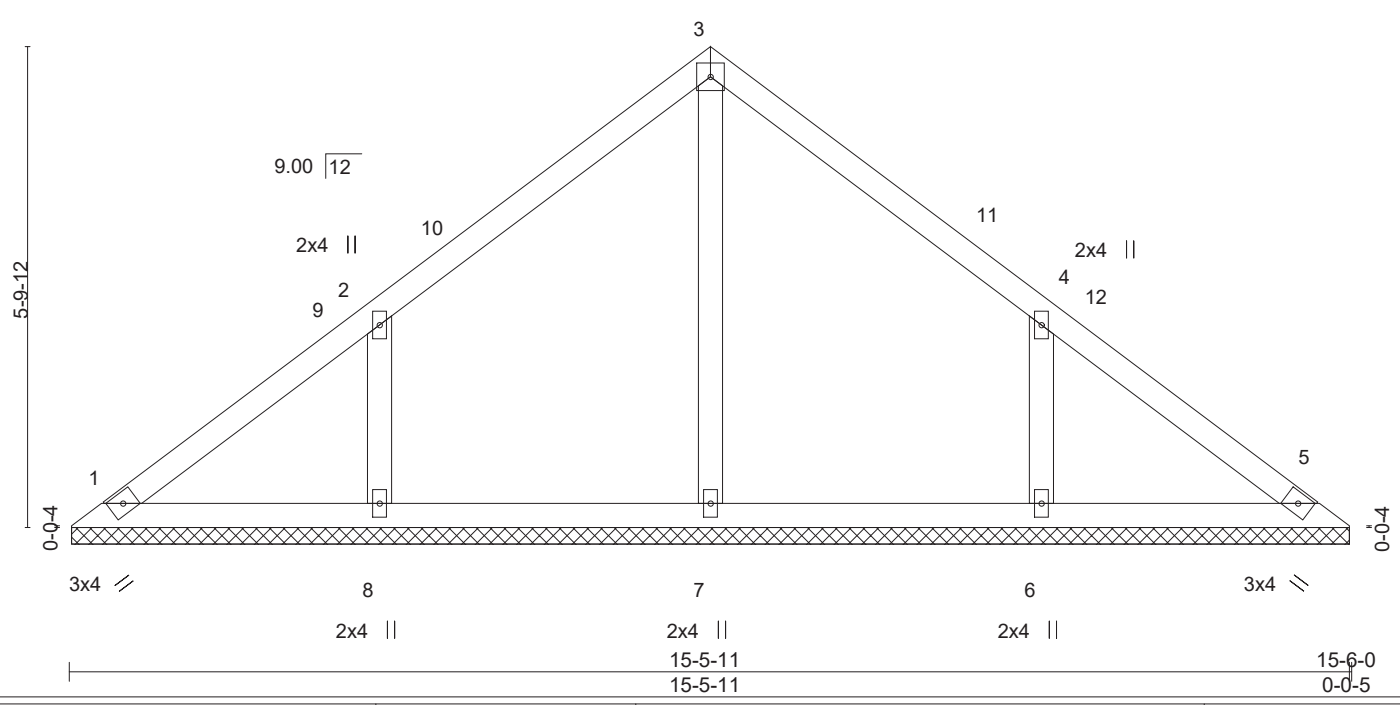
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	NOF-9
20031164	V02	Valley	1	1	I40724360
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 12:05:41 2020 Page 1
ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-965jjcLSce?O441f8htOPETM9v20RNp7bbtV?QzY34O

7-9-0 / 7-9-0 | 15-6-0 / 7-9-0

Scale = 1:36.0



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	0.11	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: 65 lb	FT = 20%

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

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

REACTIONS. All bearings 15-5-5.
(lb) - Max Horz 1=-111(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-132(LC 10), 6=-132(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=358(LC 17), 6=358(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-272/168, 4-6=-272/168

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) 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) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 4-9-0, Exterior(2) 4-9-0 to 10-9-0, Interior(1) 10-9-0 to 12-0-12, Exterior(2) 12-0-12 to 15-0-12 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) 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=132, 6=132.

March 24,2020

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

Job	Truss	Truss Type	Qty	Ply	NOF-9
20031164	V03	Valley	1	1	I40724361
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 12:05:42 2020 Page 1
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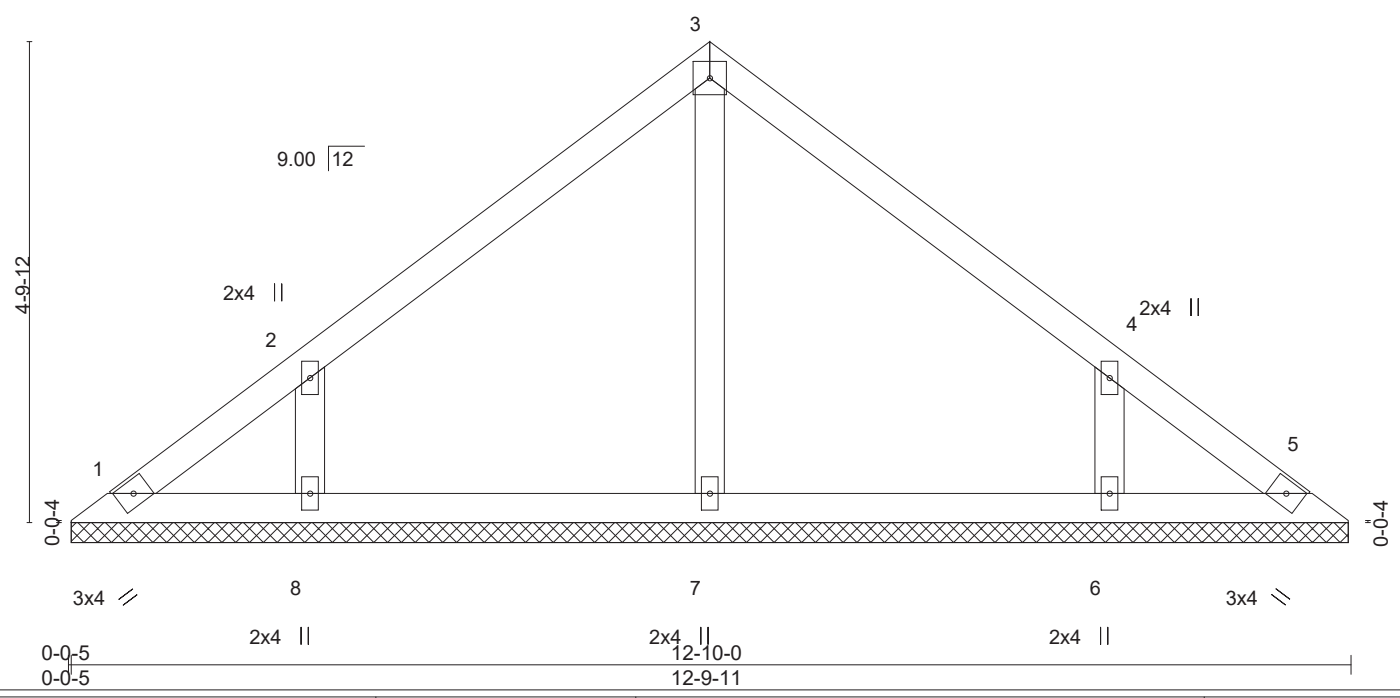
6-5-0 / 6-5-0 | 12-10-0 / 6-5-0

Scale = 1:29.8



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	0.17	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	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 51 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 12-9-5.
(lb) - Max Horz 1=-91(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-117(LC 10), 6=-116(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=255(LC 1), 8=308(LC 17), 6=308(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 (3-second gust) 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=117, 6=116.

March 24,2020

⚠ *WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.*
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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	NOF-9
20031164	V04	Valley	1	1	I40724362
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 12:05:43 2020 Page 1
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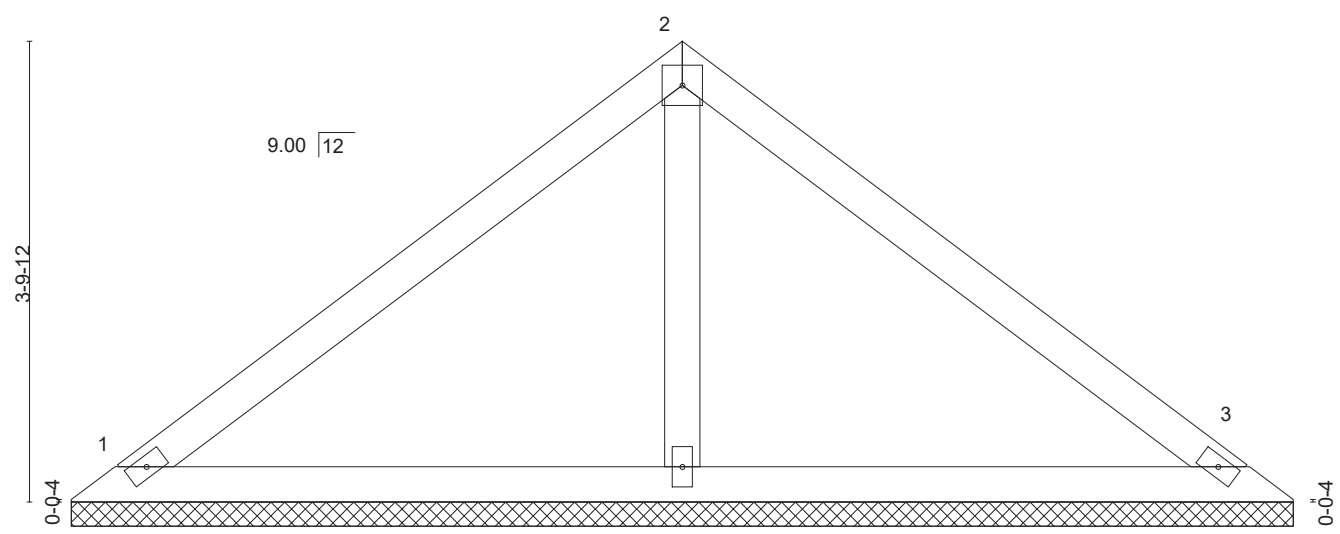
5-1-0 (5-1-0) | 10-2-0 (5-1-0)

Scale = 1:24.7



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	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: 37 lb	FT = 20%

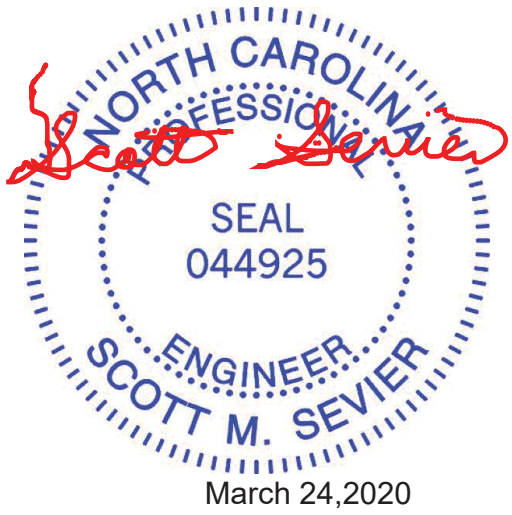
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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=10-1-5, 3=10-1-5, 4=10-1-5
Max Horz 1=-70(LC 8)
Max Uplift 1=-26(LC 10), 3=-36(LC 11), 4=-6(LC 10)
Max Grav 1=190(LC 1), 3=190(LC 1), 4=363(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 (3-second gust) 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.



March 24,2020

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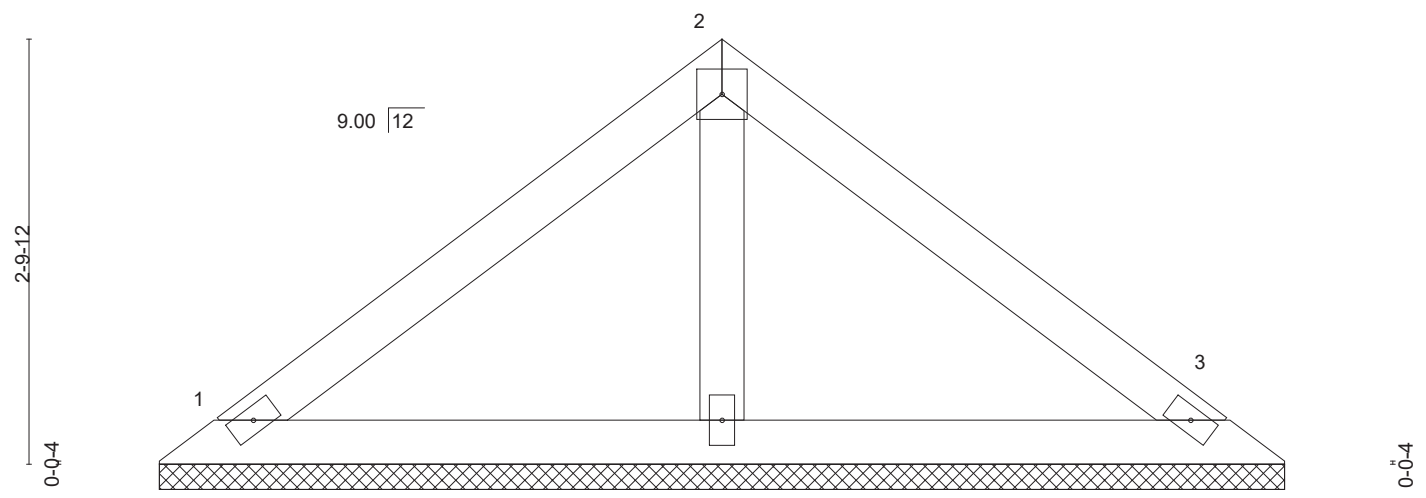
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	NOF-9
20031164	V05	Valley	1	1	I40724363
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 12:05:43 2020 Page 1
ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-5UDT8IMi8FG6JOB2F5vsVfZiaikRvIIQ2vMc4JzY34M

3-9-0 (3-9-0) | 7-6-0 (3-9-0)

Scale = 1:19.7



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	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 27 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=7-5-5, 3=7-5-5, 4=7-5-5
Max Horz 1=-50(LC 6)
Max Uplift 1=-25(LC 10), 3=-32(LC 11)
Max Grav 1=148(LC 1), 3=148(LC 1), 4=235(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 (3-second gust) 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.

March 24,2020

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A MiTek Affiliate
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	NOF-9
20031164	V06	Valley	1	1	I40724364
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 12:05:44 2020 Page 1
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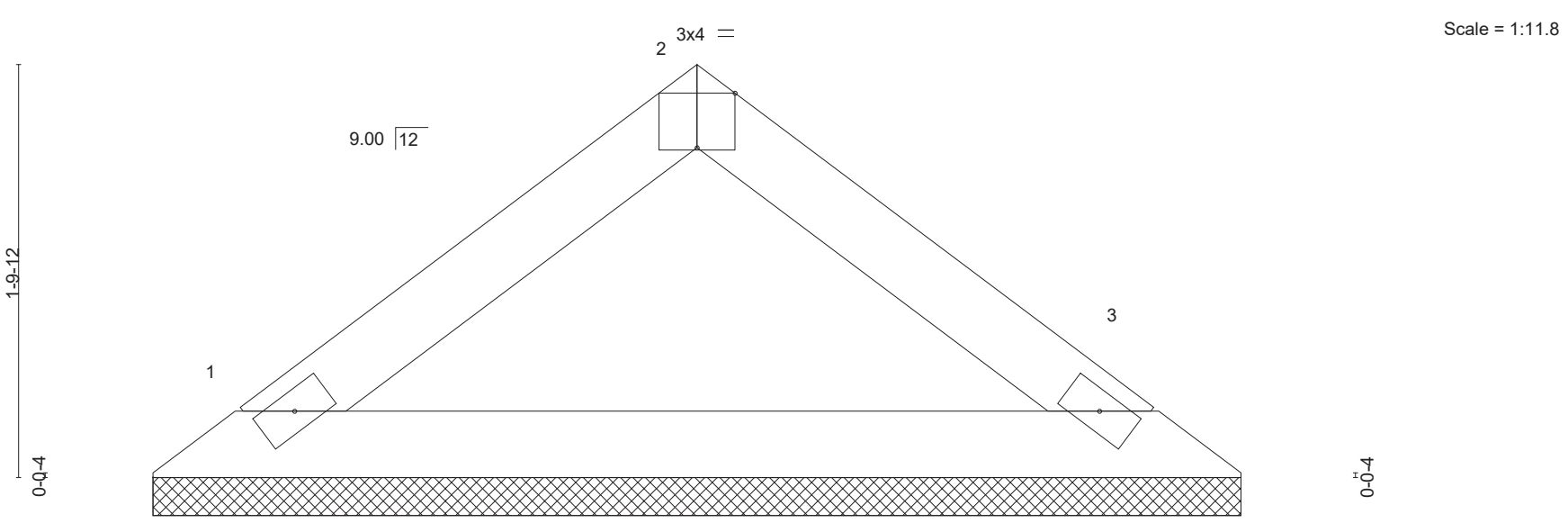


Plate Offsets (X,Y)-- [2:0-2-0,Edge]

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	0.07	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	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 15 lb	FT = 20%

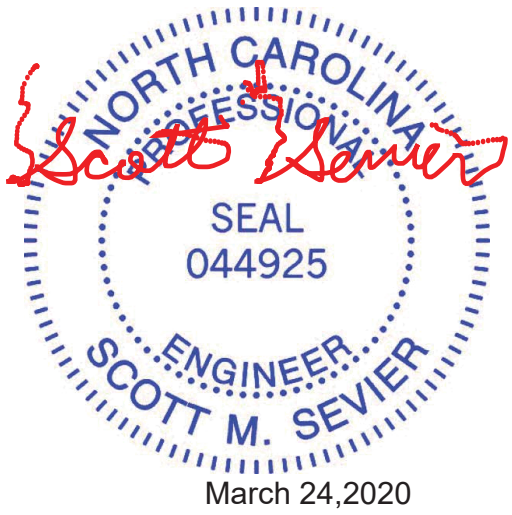
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 1=4-9-5, 3=4-9-5
Max Horz 1=30(LC 9)
Max Uplift 1=-12(LC 10), 3=-12(LC 11)
Max Grav 1=158(LC 1), 3=158(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 (3-second gust) 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.



March 24,2020

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A MiTek Affiliate
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	NOF-9
20031164	V07	Valley	1	1	I40724365
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 12:05:44 2020 Page 1
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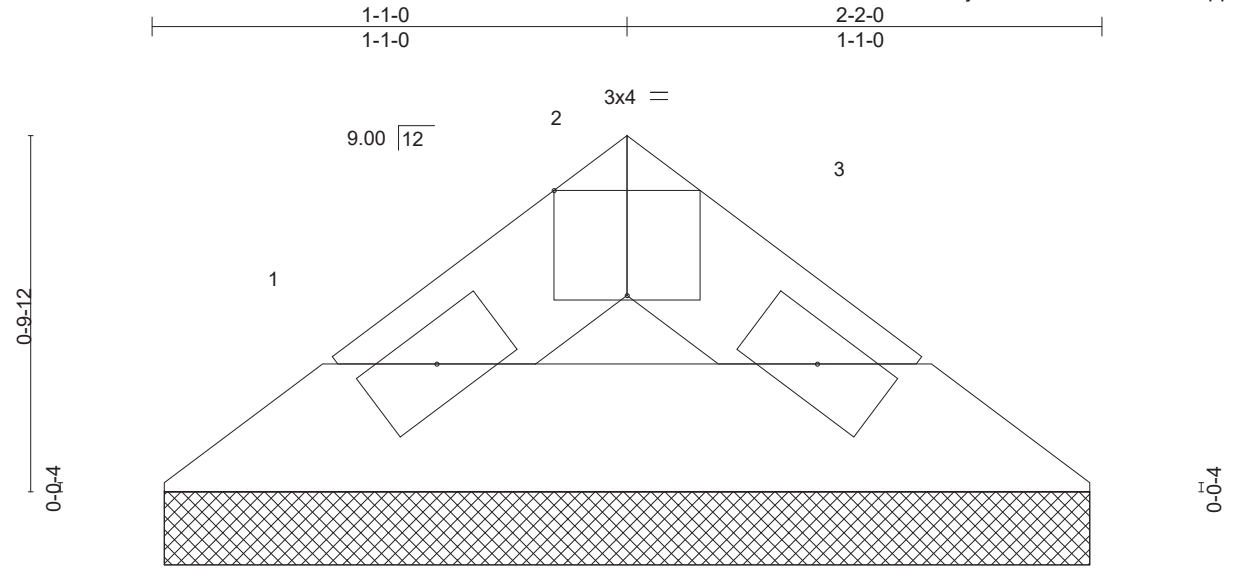

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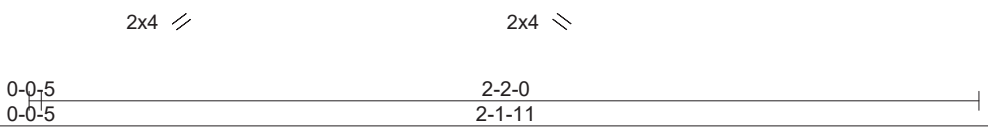


Plate Offsets (X,Y)-- [2:0-2-0,Edge]

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	0.01	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	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 6 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 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-1-5, 3=2-1-5
Max Horz 1=10(LC 7)
Max Uplift 1=-4(LC 10), 3=-4(LC 11)
Max Grav 1=52(LC 1), 3=52(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 (3-second gust) 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.

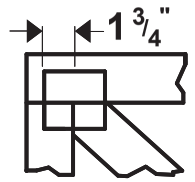
March 24,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

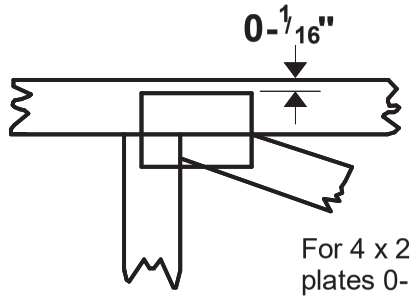
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

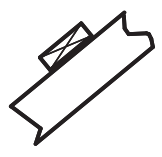
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

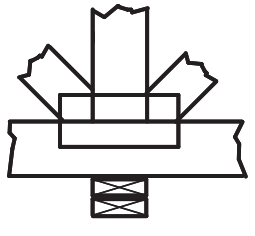
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

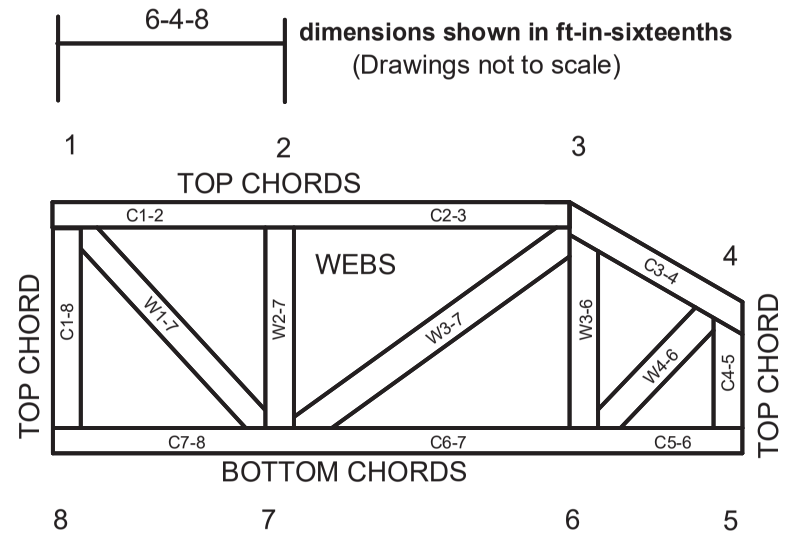


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/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.