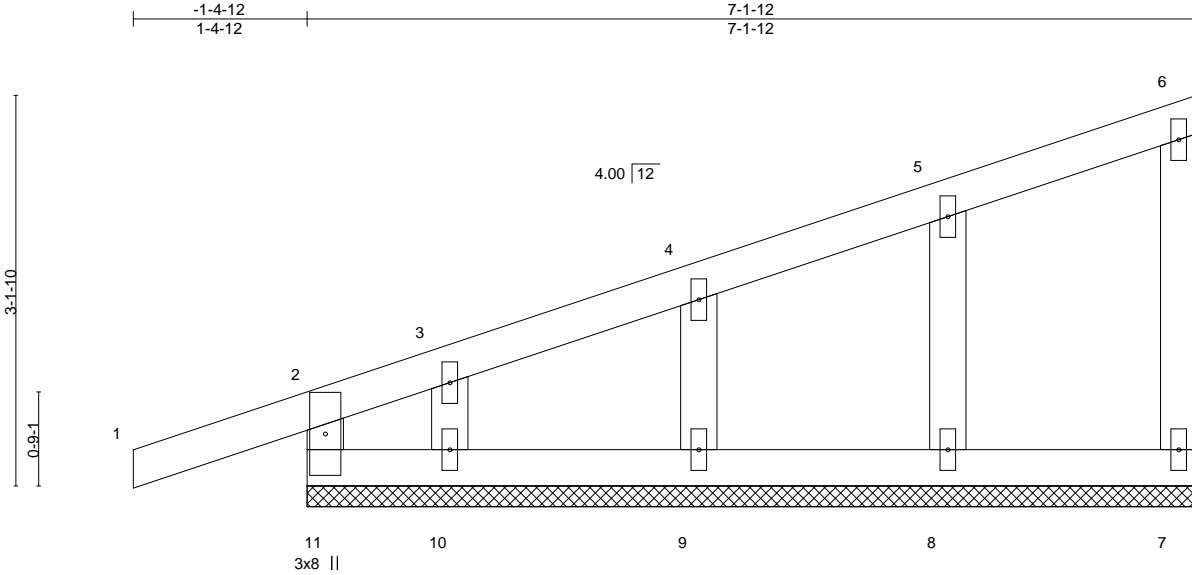


Job B-80605	Truss M01	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	PAMI/Elliott Bridge Rd. Job Reference (optional)	E16337379
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Structural Building Components, LLC, Albemarle, NC - 28001,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:17 2021 Page 1

ID:uw?aMh_8lYyUgaiixHX?8vzMHNX-D1yWMOHyXs3gJnp3V4kWqcQ0MRb1W0udcLsZoNyPu4W
7-1-12
7-1-12



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) 0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.00 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 7 n/a n/a		
	Code IRC2018/TPI2014			Weight: 34 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 7-1-12.
(lb) - Max Horz 11=135(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 11, 7, 8, 9, 10
Max Grav All reactions 250 lb or less at joint(s) 11, 7, 8, 9, 10

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-4-12 to 1-7-4, Exterior(2N) 1-7-4 to 4-0-0, Corner(3E) 4-0-0 to 7-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 1.5x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 7, 8, 9, 10.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 25, 2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



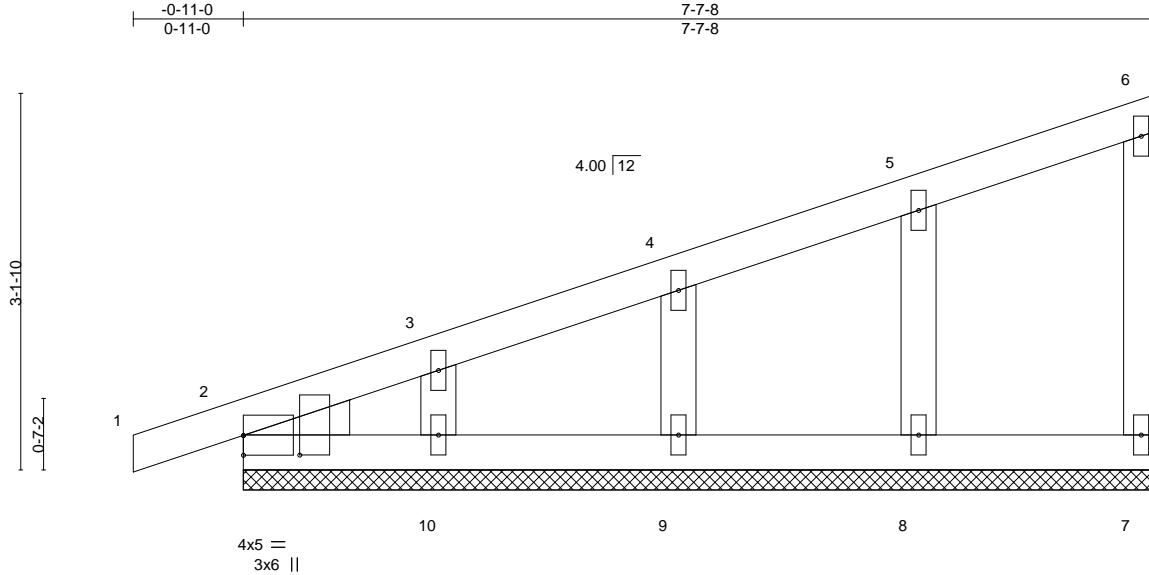
818 Soundside Road
Edenton, NC 27932

Job B-80605	Truss M02	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	PAMI/Elliott Bridge Rd. Job Reference (optional)	E16337380
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Structural Building Components, LLC, Albemarle, NC - 28001,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:18 2021 Page 1

ID:uw?aMh_8lYyUgaixHX?8vzMHNX-hDWuaklaIABXxOG3nFINpzDArxPFTAmr?c6LpyPu4V
7-7-8
7-7-8



Scale = 1:19.2

Plate Offsets (X,Y)-- [2:0-1-15,0-5-10]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.10	Vert(LL) 0.00	0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.03	Vert(CT) -0.00	-0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.03	Horz(CT) 0.00	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 36 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-

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

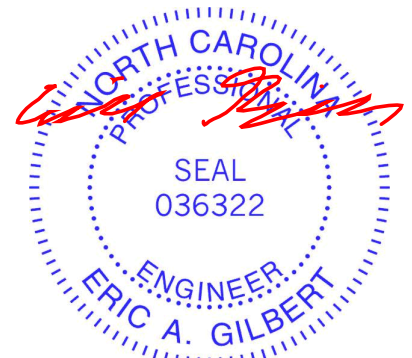
REACTIONS.

All bearings 7-7-8.
(lb) - Max Horz 2=127(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8, 9, 10
Max Grav All reactions 250 lb or less at joint(s) 7, 2, 8, 9, 10

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-11-0 to 2-1-0, Exterior(2N) 2-1-0 to 4-5-12, Corner(3E) 4-5-12 to 7-5-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 1.5x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8, 9, 10.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 25, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

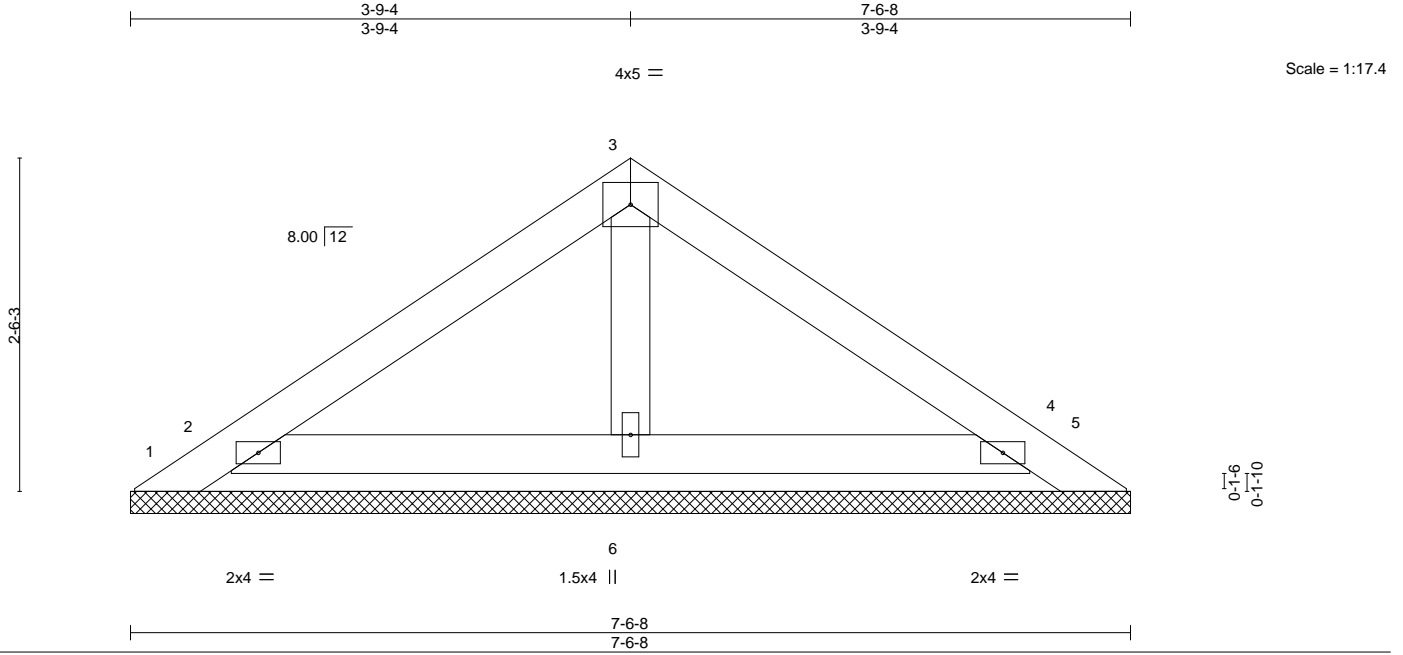
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337381
B-80605	PB01	GABLE	17	1	Job Reference (optional)	

Structural Building Components, LLC, Albemarle, NC - 28001, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:19 2021 Page 1
 ID:uw?aMh_8lYyUgaiixHX?8vzMHNX-9Q4Gn4JC3UJOZ5zSdVm_v1WNJEGh_wjv4FLtFyPu4U



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
	Code IRC2018/TPI2014			Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.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 7-6-8.
 (lb) - Max Horz 1=62(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=142(LC 17), 5=116(LC 18), 2=183(LC 10), 4=168(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 2=316(LC 17), 4=299(LC 18)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Exterior(2R) 3-3-5 to 4-3-3, Exterior(2E) 4-3-3 to 7-3-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 1, 116 lb uplift at joint 5, 183 lb uplift at joint 2 and 168 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 25, 2021

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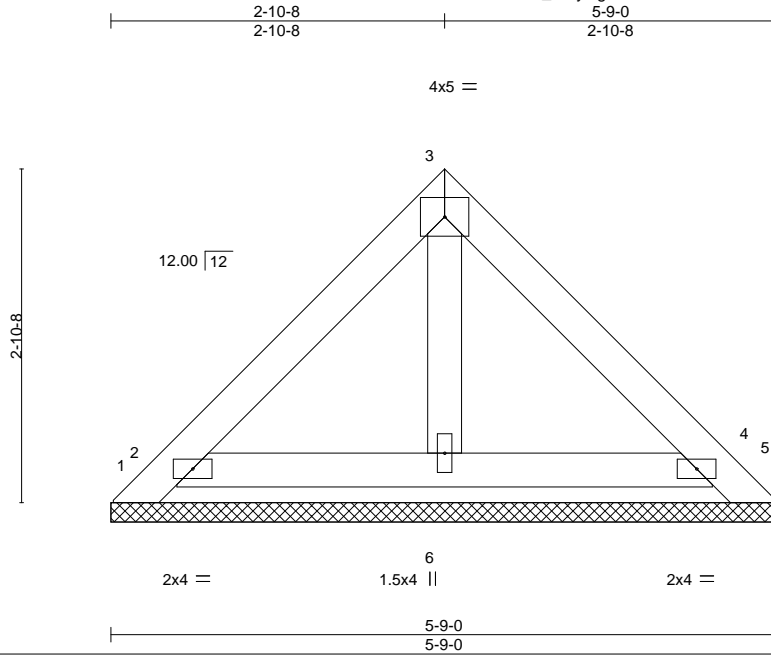
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337382
B-80605	PB03	GABLE	10	1	Job Reference (optional)	

Structural Building Components, LLC, Albemarle, NC - 28001, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:20 2021 Page 1
 ID:uw?aMh_8lYyUgaiixHX?8vzMHNX-dcee_QKqqrFAFYeBCHDSE2ZJedVjN23lJ5DPiyPu4T



Scale = 1:19.8

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 0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 22 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 5-9-0.
 (lb) - Max Horz 1=-71(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=-146(LC 17), 5=-106(LC 18), 2=-202(LC 10), 4=-174(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 4, 6 except 2=280(LC 17)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 1, 106 lb uplift at joint 5, 202 lb uplift at joint 2 and 174 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 25, 2021

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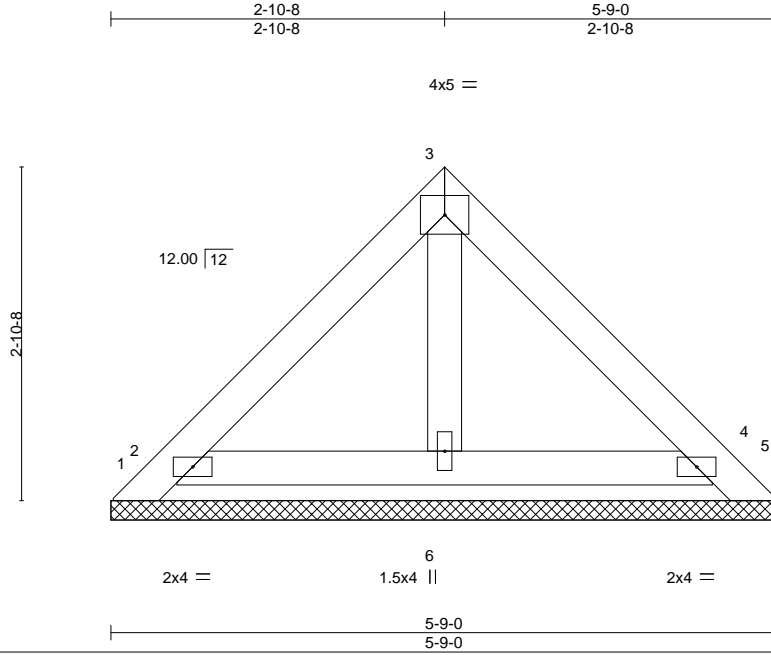


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337383
B-80605	PB04	GABLE	1	2	Job Reference (optional)	

Structural Building Components, LLC, Albemarle, NC - 28001, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:21 2021 Page 1

ID:uw?aMh_8lYyUgaiixHX?8vzMHX-5oC1CmKSb5Z6oP7rkwP5_SbI?2z9SqNCXzqmx8yPu4S



Scale = 1:19.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) n/a	-	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) n/a	-	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	4	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 44 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 5-9-0.
 (lb) - Max Horz 1=71(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=146(LC 17), 5=106(LC 18), 2=202(LC 10), 4=174(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 4, 6 except 2=280(LC 17)

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

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 1, 106 lb uplift at joint 5, 202 lb uplift at joint 2 and 174 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 25, 2021

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818 Soundside Road
 Edenton, NC 27932

Job B-80605	Truss T01GE	Truss Type Common Supported Gable	Qty 1	Ply 1	PAMI/Elliott Bridge Rd. Job Reference (optional)	E16337384
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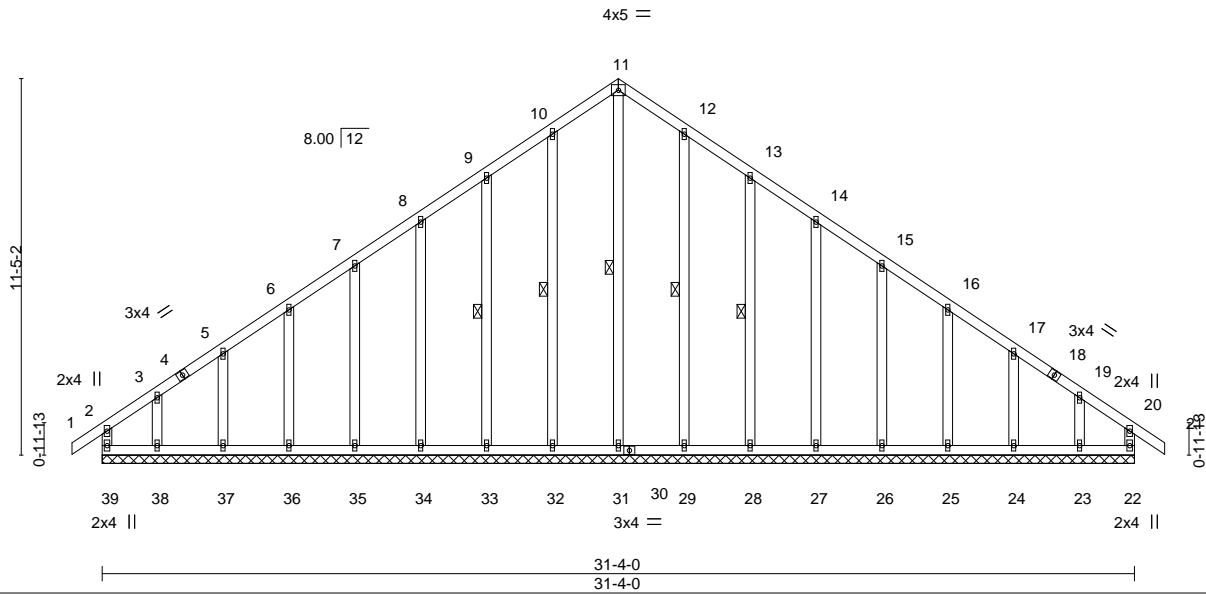
Structural Building Components, LLC, Albemarle, NC - 28001,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:23 2021 Page 1

ID:uw?aMh_8lYyUgaiHX?8vzMHX-1BKndRMj7ipq1iGDsLrw4tg3GsdEwi0V?Hjt00yPu4Q

-0-11-0 15-8-0 31-4-0 32-3-0
0-11-0 15-8-0 15-8-0 0-11-0

Scale = 1:69.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL)	-0.00	21	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	-0.00	21	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.19	Horz(CT)	0.01	22	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Wind(LL)	0.00	20	n/r		
	Code IRC2018/TPI2014						Weight: 240 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 11-31, 10-32, 9-33, 12-29, 13-28

REACTIONS.

All bearings 31-4-0.
(lb) - Max Horz 39=325(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 32, 33, 34, 35, 36, 37, 29, 28, 27, 26, 25, 24 except 39=-172(LC 6), 22=-106(LC 7), 38=-196(LC 10), 23=-176(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 39, 22, 32, 33, 34, 35, 36, 37, 38, 29, 28, 27, 26, 25, 24, 23 except 31=305(LC 11)

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

TOP CHORD 8-9=-150/253, 9-10=-189/320, 10-11=-221/374, 11-12=-221/374, 12-13=-189/320, 13-14=-150/253
WEBS 11-31=-334/142

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-11-0 to 2-2-10, Exterior(2N) 2-2-10 to 12-6-6, Corner(3R) 12-6-6 to 18-9-10, Exterior(2N) 18-9-10 to 29-1-6, Corner(3E) 29-1-6 to 32-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 33, 34, 35, 36, 37, 29, 28, 27, 26, 25, 24 except (jt=lb) 39=172, 22=106, 38=196, 23=176.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 25, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

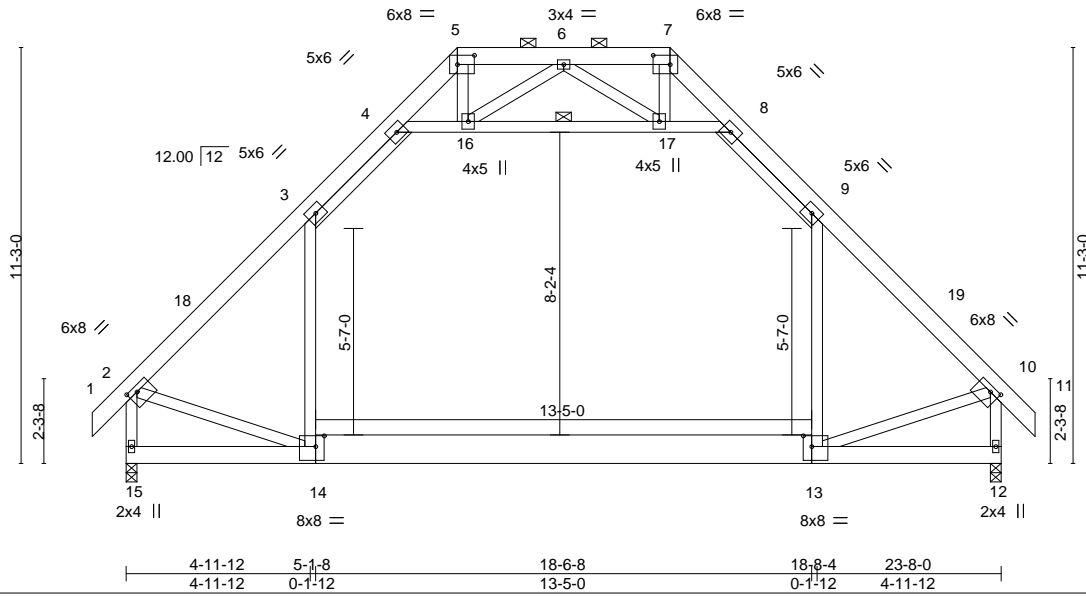
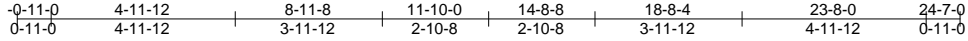


818 Soundside Road
Edenton, NC 27932

Job B-80605	Truss T02	Truss Type ATTIC	Qty 6	Ply 1	PAMI/Elliott Bridge Rd. Job Reference (optional)	E16337385
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Structural Building Components, LLC, Albemarle, NC - 28001, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:24 2021 Page 1

ID:uw?aMh_8IYyUgaixHX?8vzMHNX-VNu9qnNLt0xhfsrQQ2M9c4D5HFf1_fDw3QYTyPu4P



Scale = 1:62.3

Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [5:0-5-8,0-3-0], [7:0-5-8,0-3-0], [10:0-3-0,0-1-12], [13:0-2-12,0-3-8], [14:0-2-12,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.36	13-14	>787	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(CT) -0.46	13-14	>611	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.65	Horz(CT) 0.01	12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS	Attic -0.27	13-14	604	360		
							Weight: 233 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
3-4,8-9: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
13-14: 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
3-14,9-13: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-7-7 oc bracing.
WEBS 1 Row at midpt 4-8

REACTIONS.

(size) 15=0-3-8, 12=0-3-8
Max Horz 15=-339(LC 8)
Max Uplift 15=-116(LC 10), 12=-116(LC 11)
Max Grav 15=1342(LC 2), 12=1342(LC 2)

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

TOP CHORD 2-3=-1319/177, 3-4=-866/261, 4-5=-344/134, 7-8=-344/134, 8-9=-866/261,
9-10=-1318/177, 5-6=-191/256, 6-7=-191/256, 2-15=-1376/193, 10-12=-1377/193
BOT CHORD 14-15=-349/396, 13-14=-91/886
WEBS 3-14=-48/581, 9-13=-48/581, 4-16=-1037/330, 16-17=-851/230, 8-17=-1037/330,
6-16=-261/174, 6-17=-261/174, 2-14=-138/900, 10-13=-141/902

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCCL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 4-8-9, Exterior(2R) 4-8-9 to 18-8-7, Interior(1) 18-8-7 to 21-7-0, Exterior(2E) 21-7-0 to 24-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-16, 16-17, 8-17
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-14
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=116, 12=116.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



October 25, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

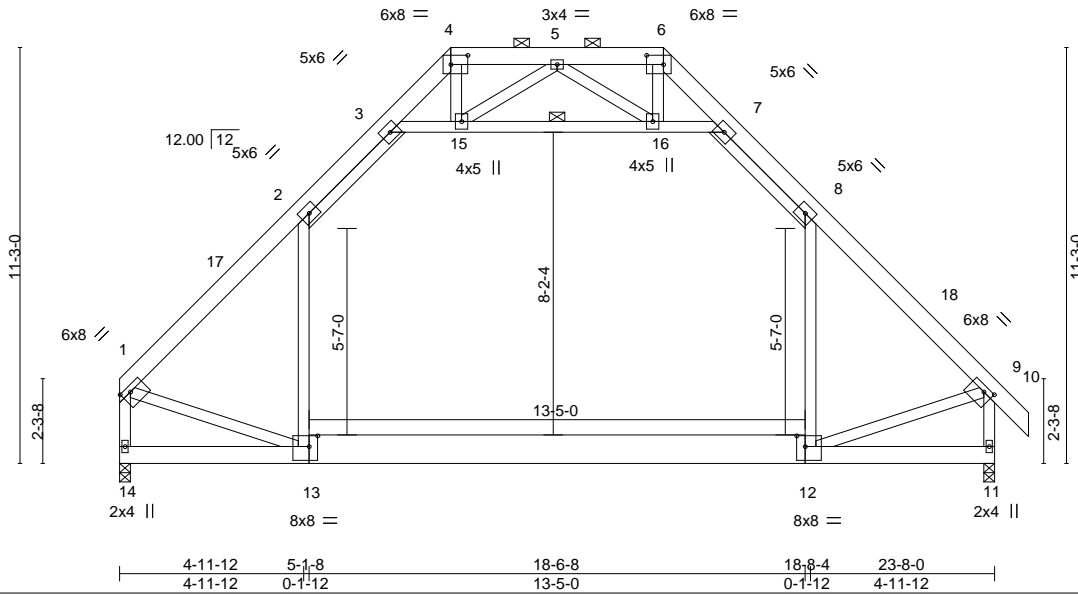
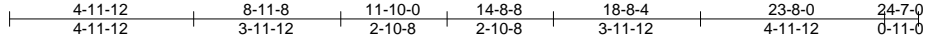
Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337386
B-80605	T03	ATTIC	4	1	Job Reference (optional)	

Structural Building Components, LLC,

Albemarle, NC - 28001,

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Scale = 1:62.3

Plate Offsets (X,Y)-- [1:0-3-0,0-1-12], [4:0-5-8,0-3-0], [6:0-5-8,0-3-0], [9:0-3-0,0-1-12], [12:0-2-12,0-3-8], [13:0-2-12,0-3-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	-0.36 12-13	>787	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.46 12-13	>610	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.01 11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS	Attic	-0.27 12-13	604	360	Weight: 230 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
2-3,7-8: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
12-13: 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
2-13,8-12: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-7-7 oc bracing.
WEBS 1 Row at midpt 3-7

REACTIONS.

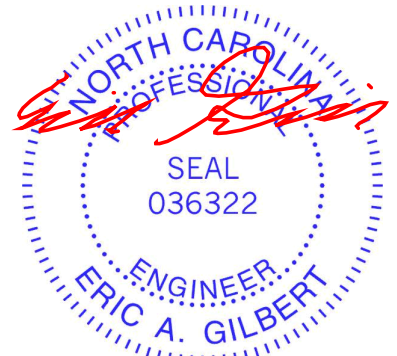
(size) 14=0-3-8, 11=0-3-8
Max Horz 14=-330(LC 8)
Max Uplift 14=-90(LC 10), 11=-115(LC 11)
Max Grav 14=1288(LC 2), 11=1344(LC 2)

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

TOP CHORD 1-2=-1319/164, 2-3=-868/260, 3-4=-341/134, 6-7=-343/135, 7-8=-868/259,
8-9=-1321/174, 4-5=-188/259, 5-6=-190/258, 1-14=-1334/151, 9-11=-1379/190
BOT CHORD 13-14=-330/378, 12-13=-90/888
WEBS 2-13=-55/576, 8-12=-48/583, 3-15=-1043/329, 15-16=-853/229, 7-16=-1043/327,
5-15=-262/175, 5-16=-262/173, 1-13=-141/896, 9-12=-139/905

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-8-9, Exterior(2R) 4-8-9 to 18-8-7, Interior(1) 18-8-7 to 21-7-0, Exterior(2E) 21-7-0 to 24-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Ceiling dead load (5.0 psf) on member(s). 2-3, 7-8, 3-15, 15-16, 7-16
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-13
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 11=115.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



October 25, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

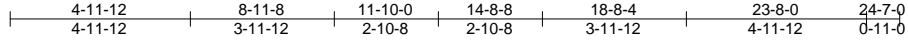


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337387
B-80605	T04	ATTIC	1	2	Job Reference (optional)	

Structural Building Components, LLC, Albemarle, NC - 28001, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:28 2021 Page 1

ID:uw?aMh_8lYyUgaiixHX?8vzMHNX-O97gg9QrxFR68T9BfuR5mwOnqtBzbxAE8Y1ehEyPu4L



Scale: 3/16"=1'

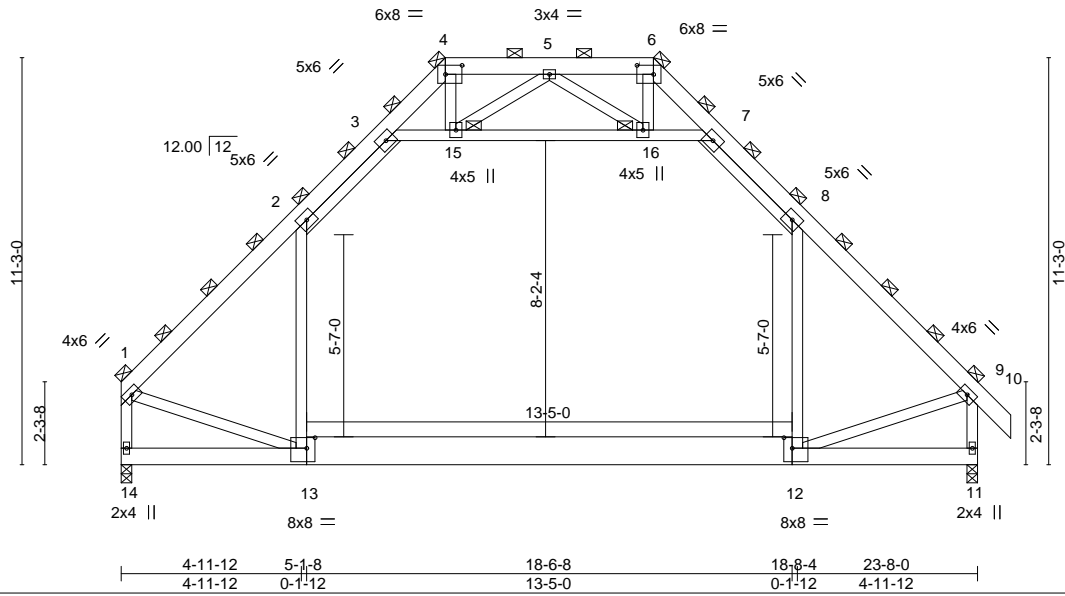


Plate Offsets (X,Y)-- [4:0-5-8,0-3-0], [6:0-5-8,0-3-0], [12:0-2-12,0-3-8], [13:0-2-12,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.66	Vert(LL) -0.27	12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.72	Vert(CT) -0.34	12-13	>814	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.26	Horz(CT) 0.00	11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS	Attic -0.20	12-13	805	360		
							Weight: 459 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
2-3,7-8: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
12-13: 2x10 SP No.1
WEBS 2x4 SP No.3 *Except*
2-13,8-12: 2x4 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
(Switched from sheeted: Spacing > 2-10-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 4, 6, 15, 16, 1, 9

REACTIONS.

(size) 14=0-3-8, 11=0-3-8
Max Horz 14=-495(LC 4)
Max Uplift 14=-136(LC 8), 11=-173(LC 9)
Max Grav 14=1932(LC 2), 11=2015(LC 2)

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

TOP CHORD 1-2=-1978/231, 2-3=-1302/290, 3-4=-511/201, 6-7=-514/202, 7-8=-1302/288,
8-9=-1981/234, 4-5=-281/388, 5-6=-285/387, 1-14=-2000/204, 9-11=-2069/210
BOT CHORD 13-14=-495/567, 12-13=-135/1331
WEBS 2-13=-82/864, 8-12=-71/874, 3-15=-1565/494, 15-16=-1280/343, 7-16=-1564/490,
4-15=-109/313, 6-16=-108/313, 5-15=-393/262, 5-16=-393/260, 1-13=-212/1344,
9-12=-209/1357

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Ceiling dead load (5.0 psf) on member(s). 2-3, 7-8, 3-15, 15-16, 7-16
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-13
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=136, 11=173.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and



October 25, 2021

Continued on page 2 - Standard ANSI/TPI 1.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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818 Soundside Road
Edenton, NC 27932

Job B-80605	Truss T04	Truss Type ATTIC	Qty 1	Ply 2	PAMI/Elliott Bridge Rd. Job Reference (optional)	E16337387
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Structural Building Components, LLC, Albemarle, NC - 28001,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:28 2021 Page 2
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NOTES-

- 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.

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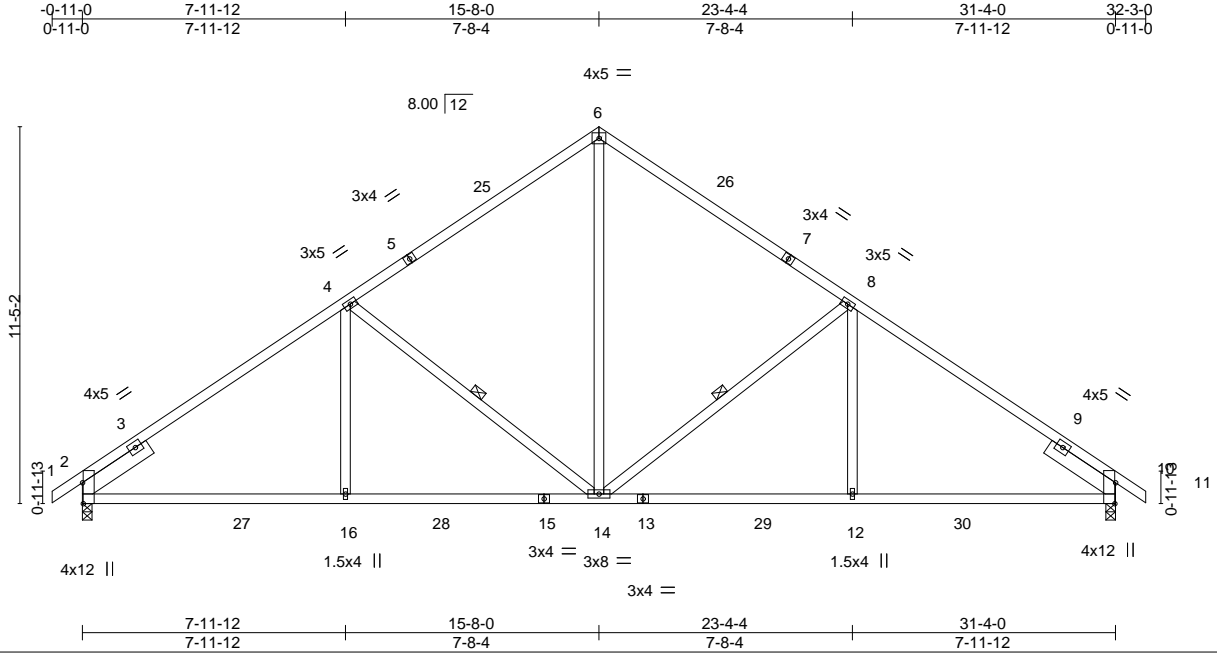


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337388
B-80605	T05	Common	1	1		

Structural Building Components, LLC, Albemarle, NC - 28001, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:29 2021 Page 1

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Scale = 1:69.9

Plate Offsets (X,Y)-- [2:0-7-10,Edge], [10:0-7-10,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.92	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.78	Vert(LL) -0.15 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.43	Vert(CT) -0.28 12-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.10 10 n/a n/a		
	Code IRC2018/TPI2014			Weight: 179 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
 1-5,7-11: 2x4 SP No.1
 BOT CHORD 2x4 SP No.1 *Except*
 13-15: 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 2-6-0, Right 2x6 SP No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 8-14, 4-14

REACTIONS.

(size) 2=0-3-8, 10=0-3-8
 Max Horz 2=295(LC 9)
 Max Uplift 2=-257(LC 10), 10=-257(LC 11)
 Max Grav 2=1533(LC 17), 10=1533(LC 18)

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

TOP CHORD 2-4=-1922/339, 4-6=-1396/354, 6-8=-1396/354, 8-10=-1922/339
 BOT CHORD 2-16=-322/1714, 14-16=-322/1714, 12-14=-144/1516, 10-12=-144/1516
 WEBS 6-14=-181/1018, 8-14=-709/324, 8-12=0/380, 4-14=-709/324, 4-16=0/380

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCCL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-2-10, Interior(1) 2-2-10 to 12-6-6, Exterior(2R) 12-6-6 to 18-9-10, Interior(1) 18-9-10 to 29-1-6, Exterior(2E) 29-1-6 to 32-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=257, 10=257.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 25, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

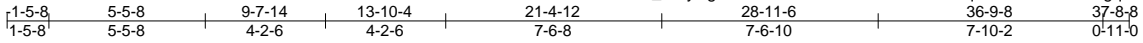


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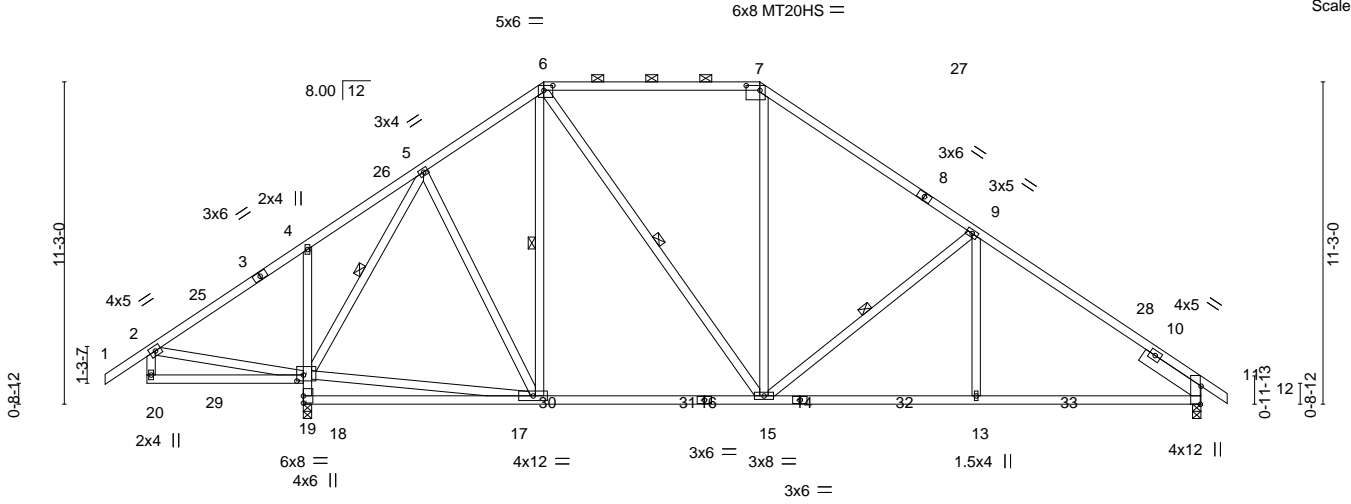
Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337389
B-80605	T06	Piggyback Base	5	1	Job Reference (optional)	

Structural Building Components, LLC, Albemarle, NC - 28001, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:30 2021 Page 1

ID:uw?amh_8IYyUgaiixHX?8vzMHNX-KXFQ5rR6TshqNnJZmJTzSLT22gd3mxXcsWlM6yPu4J



Scale = 1:80.4



Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337390
B-80605	T07	Piggyback Base	1	1	Job Reference (optional)	

Structural Building Components, LLC, Albemarle, NC - 28001,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:32 2021 Page 1

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1-5-8, 3-6-12, 5-5-8, 7-6-12, 9-7-14, 11-6-12, 13-10-4, 15-6-12, 21-4-12, 28-11-6, 36-9-8, 37-8-8
 1-5-8, 3-6-12, 1-10-13, 2-1-4, 2-1-2, 1-10-14, 2-3-8, 1-8-8, 5-10-0, 7-6-10, 7-10-2, 0-11-0

Scale = 1:77.4

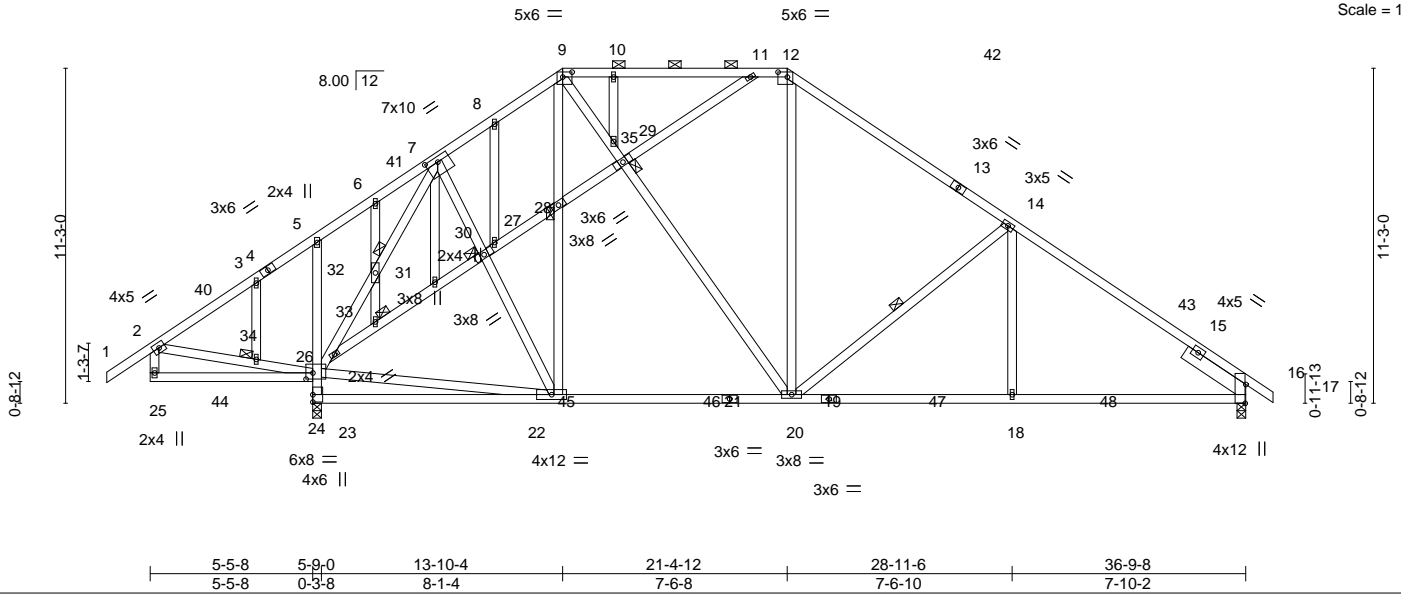


Plate Offsets (X,Y)-- [7:0-5-0,0-2-0], [9:0-3-12,0-2-0], [12:0-3-12,0-2-0], [16:0-7-10,Edge], [24:0-2-12,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.92	Vert(LL) -0.21 20-22 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.84	Vert(CT) -0.33 20-22 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.88	Horz(CT) 0.07 16 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 305 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 5-23: 2x4 SP No.3, 21-23,16-19: 2x4 SP No.1
 WEBS 2x4 SP No.3
 SLIDER Right 2x6 SP No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-5-14 max.): 9-12.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 3-8-13 oc bracing: 23-24.
 WEBS 1 Row at midpt 14-20
 JOINTS 1 Brace at Jt(s): 27, 28, 29, 32, 33, 34

REACTIONS.

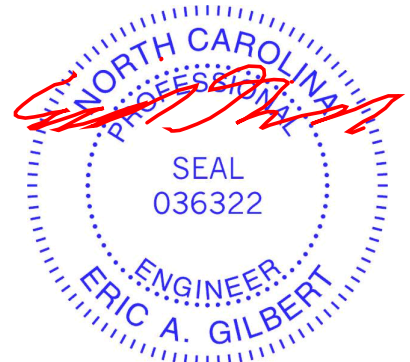
(size) 16=0-3-8, 23=0-3-8
 Max Horz 23=-309(LC 8)
 Max Uplift 16=-252(LC 11), 23=-331(LC 10)
 Max Grav 16=1438(LC 18), 23=1995(LC 2)

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

TOP CHORD 2-3=-302/444, 3-5=-267/491, 5-6=-207/431, 6-7=-187/475, 7-8=-677/200, 8-9=-674/243, 9-10=-822/306, 10-11=-822/306, 11-12=-963/319, 12-14=-1276/292, 14-16=-1773/317
 BOT CHORD 23-24=-1895/677, 5-24=-288/196, 22-23=-262/323, 20-22=-184/847, 18-20=-118/1403, 16-18=-118/1403
 WEBS 22-24=-112/581, 24-26=-1703/472, 26-32=-1302/330, 7-32=-1343/328, 7-27=-68/556, 22-27=-52/509, 9-35=-166/542, 29-35=-139/485, 20-29=-138/484, 12-20=-31/422, 14-20=-694/319, 14-18=0/351, 2-34=-435/395, 24-34=-446/401, 26-33=-481/163, 31-33=-464/167, 27-31=-474/165, 27-30=-425/204, 28-30=-353/181, 28-29=-381/178, 11-29=-256/93, 10-35=-257/161

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TC DL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-5-8 to 2-2-10, Interior(1) 2-2-10 to 8-7-12, Exterior(2R) 8-7-12 to 26-7-3, Interior(1) 26-7-3 to 34-0-6, Exterior(2E) 34-0-6 to 37-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 16=252, 23=331.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 25, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

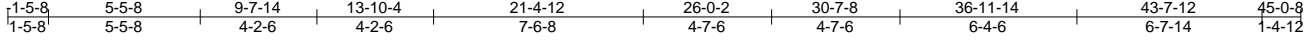


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337391
B-80605	T08	Piggyback Base	1	1	Job Reference (optional)	

Structural Building Components, LLC, Albemarle, NC - 28001, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:34 2021 Page 1

ID:uw?aMh_8lYyUgaiiXHX?8vzMHNX-DIUxwCUcX5CGsOcL?9XV0BeInHAW?V47WUyvyvPu4F



Scale = 1:82.9

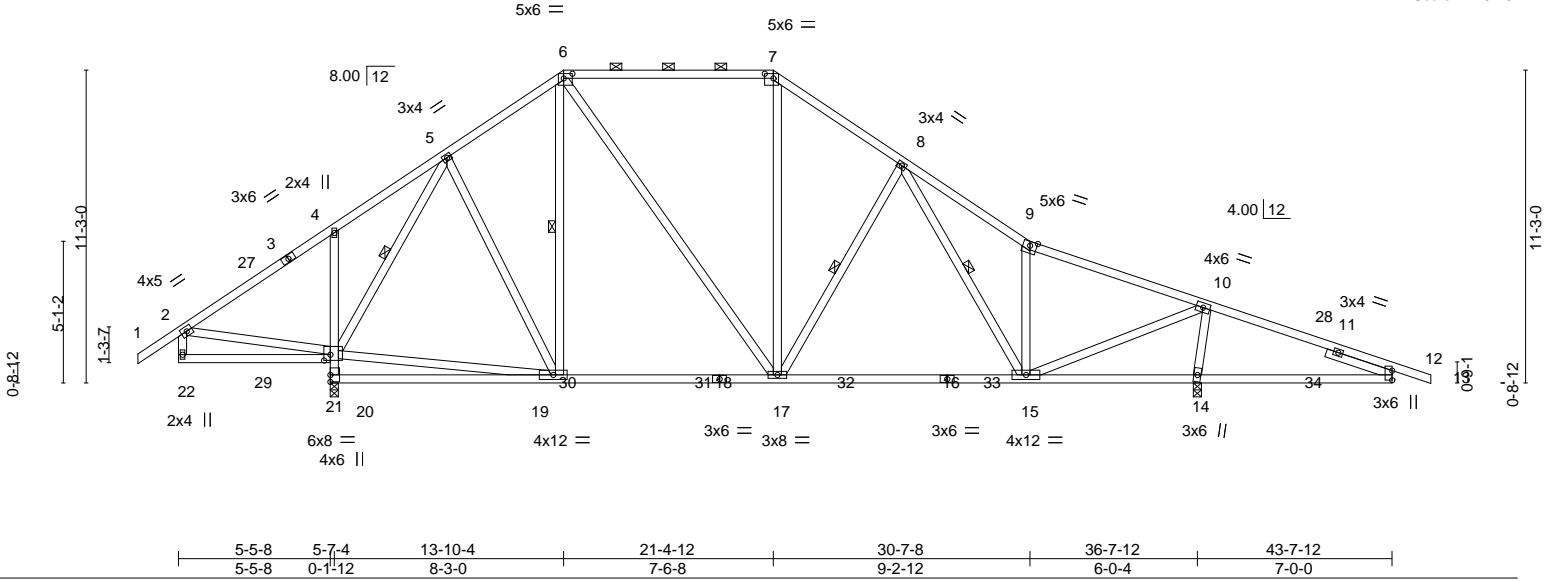


Plate Offsets (X,Y)-- [6:0-3-12,0-2-0], [7:0-3-12,0-2-0], [12:Edge,0-0-0], [21:0-2-12,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.95	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.97	Vert(LL) -0.23 15-17 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.87	Vert(CT) -0.39 15-17 >947 240		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS	Horz(CT) 0.01 14 n/a n/a		
				Weight: 297 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 6-7: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-11 max.): 6-7.
BOT CHORD 2x4 SP No.2 *Except* 4-20: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-21, 6-19, 8-17, 8-15
SLIDER Right 2x4 SP No.3 2-6-0	

REACTIONS. (size) 20=0-3-8, 14=0-3-8
 Max Horz 20=-332(LC 8)
 Max Uplift 20=-325(LC 10), 14=-480(LC 7)
 Max Grav 20=1905(LC 2), 14=2080(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-495/500, 4-5=-345/476, 5-6=-766/228, 6-7=-840/290, 7-8=-1079/273,
 8-9=-1272/272, 9-10=-1154/145, 10-12=-1033/833
 BOT CHORD 20-21=-1802/1048, 4-21=-329/241, 19-20=-123/347, 17-19=0/717, 15-17=-4/1044,
 14-15=-975/1168, 12-14=-714/1035
 WEBS 19-21=-54/405, 5-21=-1517/604, 5-19=-107/579, 6-19=-308/182, 6-17=-119/479,
 7-17=-37/324, 8-17=-356/239, 8-15=-75/419, 9-15=-527/247, 10-15=-839/2099,
 10-14=-1823/925, 2-21=-450/688

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TC DL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-5-8 to 2-10-14, Interior(1) 2-10-14 to 9-5-13, Exterior(2R) 9-5-13 to 26-0-2, Interior(1) 26-0-2 to 40-8-2, Exterior(2E) 40-8-2 to 45-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=325, 14=480.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 25, 2021

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

Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337392
B-80605	T09	Piggyback Base	4	1	Job Reference (optional)	

Structural Building Components, LLC, Albemarle, NC - 28001, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:35 2021 Page 1

ID:uw?aMh_8lYyUgaiixHX?8vzMHNX-hV2J8YVEI0K7UYBXZs3kZOAvAhZ0k06G18DWRKyPu4E

1-5-8	5-5-8	9-7-14	13-10-4	17-5-0	21-4-12	26-0-2	30-7-8	36-6-0	43-7-12	45-0-8
1-5-8	5-5-8	4-2-6	4-2-6	3-6-12	3-11-12	4-7-6	4-7-6	5-10-8	7-1-12	1-4-12

Scale = 1:84.3

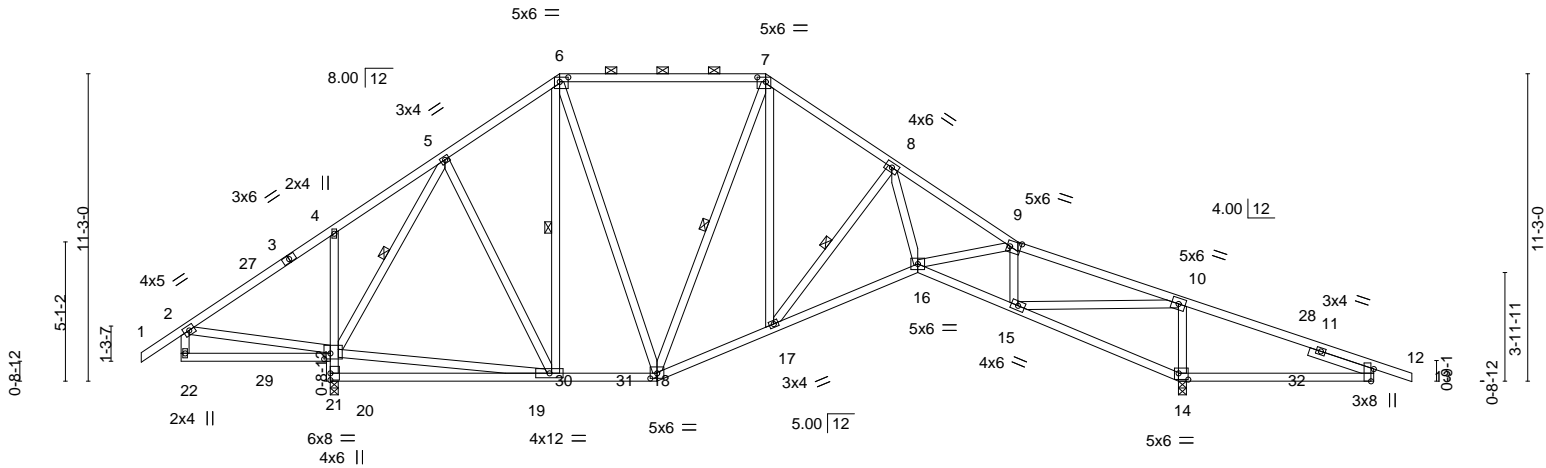


Plate Offsets (X,Y)--	[6:0-3-12,0-2-0], [7:0-3-12,0-2-0], [9:0-4-12,0-2-8], [12:0-5-6,Edge], [14:0-4-4,0-2-12], [18:0-3-0,0-2-4], [21:0-2-12,0-2-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.98	Vert(LL) -0.16 16-17 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.32 16-17 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(CT) 0.20 14 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 302 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 9-13: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 6-7.
BOT CHORD 2x4 SP No.2 *Except* 4-20: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 3-9-9 oc bracing.
WEBS 2x4 SP No.3 *Except* 10-15: 2x4 SP No.2	WEBS 1 Row at midpt 5-21, 6-19, 7-18, 8-17
SLIDER Right 2x4 SP No.3 2-6-0	

REACTIONS. (size) 20=0-3-8, 14=0-3-8
 Max Horz 20=-332(LC 8)
 Max Uplift 20=-324(LC 10), 14=-485(LC 7)
 Max Grav 20=1850(LC 2), 14=2031(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-495/500, 4-5=-345/476, 5-6=-710/229, 6-7=-678/264, 7-8=-1143/234,
 8-9=-2565/177, 9-10=-2138/137, 10-12=-1107/897
 BOT CHORD 20-21=-1733/1047, 4-21=-328/241, 19-20=-118/357, 18-19=0/675, 17-18=0/1049,
 16-17=-9/1963, 15-16=-36/2186, 14-15=-961/1249, 12-14=-770/1104
 WEBS 19-21=-59/347, 5-21=-1445/602, 5-19=-106/547, 6-19=-329/171, 6-18=-91/419,
 7-18=-701/42, 7-17=-23/1009, 8-17=-1455/143, 8-16=0/1715, 9-16=-358/315,
 9-15=-992/224, 10-15=-279/2557, 10-14=-1408/500, 2-21=-450/688

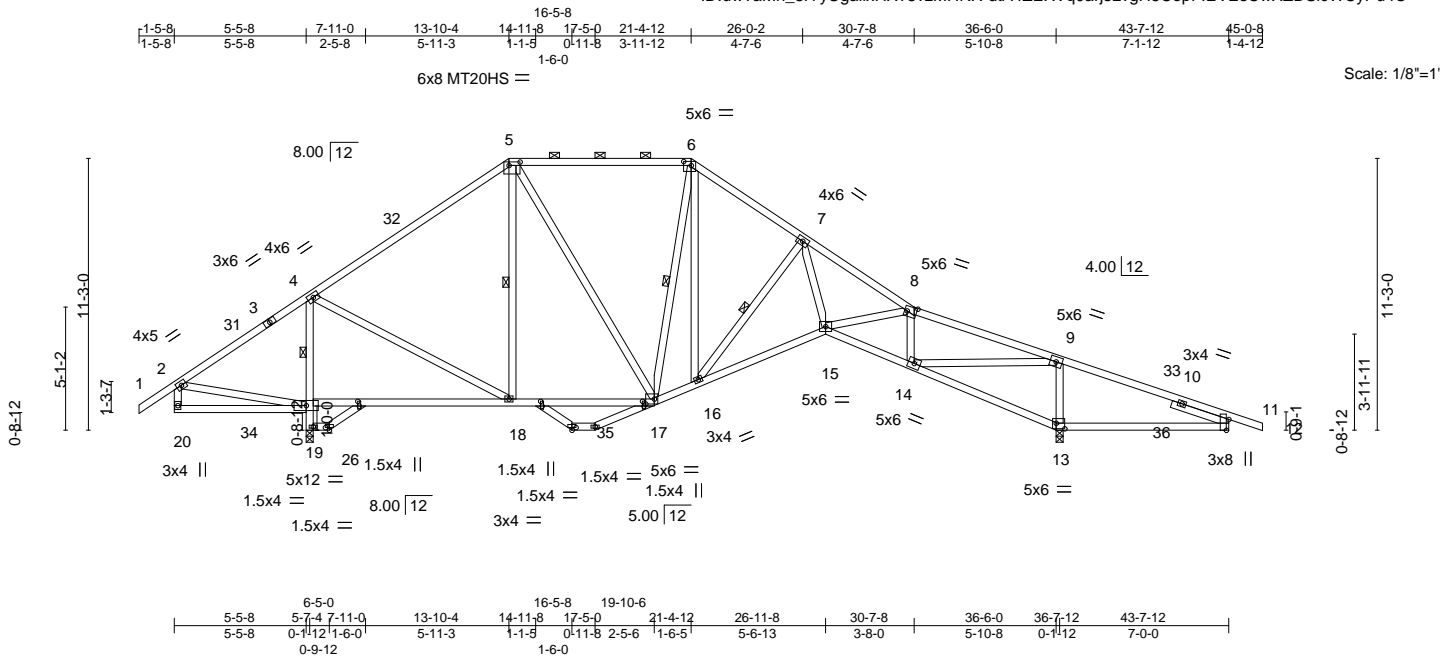
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCCL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-5-8 to 2-10-14, Interior(1) 2-10-14 to 9-5-13, Exterior(2R) 9-5-13 to 26-0-2, Interior(1) 26-0-2 to 40-8-2, Exterior(2E) 40-8-2 to 45-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=324, 14=485.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job B-80605	Truss T10	Truss Type Piggyback Base	Qty 4	Ply 1	PAMI/Elliott Bridge Rd. Job Reference (optional)	E16337393
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Structural Building Components, LLC, Albemarle, NC - 28001,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:37 2021 Page 1
ID:uw?aMh_8lYyUgaiHX?8vzMHNX-dtA4ZEXVq0arjSLvgH5CepFIEVEsCwXZDSicWcyPu4C



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.17 15-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.33 15-16	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.63	Horz(CT)	0.20 13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
								Weight: 287 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 5-6,8-12: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-4-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-5 max.): 5-6.
BOT CHORD 2x4 SP No.2 *Except* 4-26: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 3-4-2 oc bracing. Except: 1 Row at midpt 4-19
WEBS 2x4 SP No.3 *Except* 9-14: 2x4 SP No.2	WEBS 1 Row at midpt 7-16, 6-17, 5-18
SLIDER Right 2x4 SP No.3 2-6-0	

REACTIONS.	(size) 13=0-3-8, 26=0-3-8
	Max Horz 26=-332(LC 8)
	Max Uplift 13=-485(LC 7), 26=-323(LC 10)
	Max Grav 13=2039(LC 2), 26=1863(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-490/488, 4-5=-928/179, 5-6=-815/255, 6-7=-1156/232, 7-8=-2593/180, 8-9=-2158/139, 9-11=-1107/897
BOT CHORD 19-26=-1863/1014, 4-19=-1548/748, 18-19=-302/550, 17-18=0/778, 14-15=-38/2206, 13-14=-961/1249, 11-13=-770/1104, 16-17=0/1048, 15-16=-11/1985
WEBS 6-16=-25/974, 7-16=-1472/143, 7-15=0/1736, 8-15=-359/321, 8-14=-1002/225, 9-14=-281/2577, 9-13=-1416/500, 2-19=-363/630, 6-17=-617/49, 5-18=-309/259, 5-17=-134/380, 4-18=-327/1080

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-5-8 to 2-10-14, Interior(1) 2-10-14 to 9-5-13, Exterior(2R) 9-5-13 to 26-0-2, Interior(1) 26-0-2 to 40-8-2, Exterior(2E) 40-8-2 to 45-0-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Bearing at joint(s) 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=485, 26=323.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MITek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job B-80605	Truss T11	Truss Type Piggyback Base	Qty 1	Ply 1	PAMI/Elliott Bridge Rd. Job Reference (optional)	E16337394
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Structural Building Components, LLC, Albemarle, NC - 28001,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:39 2021 Page 1
ID:uw?aMh_8lYyUgaixHX?8vzMHNX-ZGIq_wYLdqZyAVloI7gJELcUJlmgFsgmBja5yPu4A

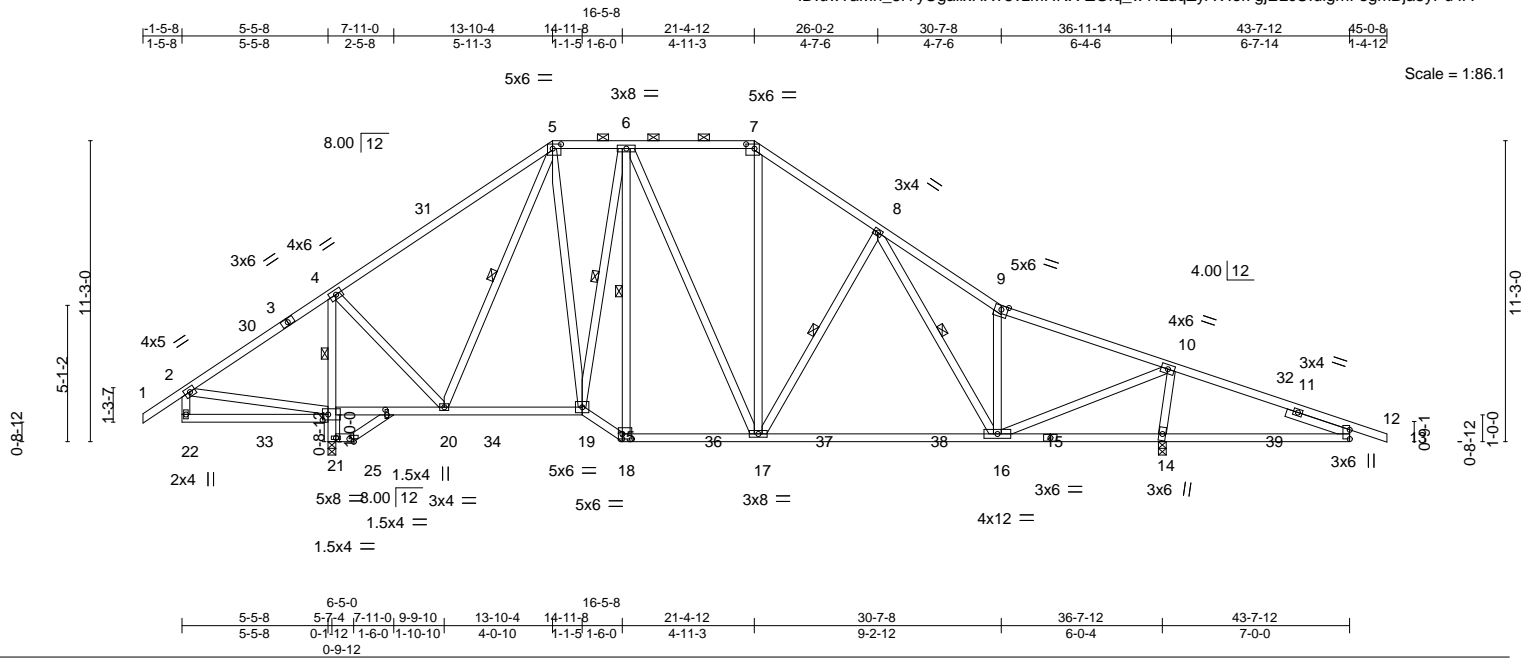


Plate Offsets (X,Y)-- [5:0-3-12,0-2-0], [7:0-3-12,0-2-0], [12:Edge,0-0-0], [18:0-4-4,0-2-4], [21:0-2-8,0-2-8], [23:0-2-0,0-1-5], [24:0-2-6,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.96	Vert(LL) -0.27 16-17 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.90	Vert(CT) -0.46 16-17 >815 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.87	Horz(CT) 0.10 14 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS			
				Weight: 317 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 4-25: 2x4 SP No.3
 WEBS 2x4 SP No.3
 SLIDER Right 2x4 SP No.3 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied or 3-0-9 oc bracing. Except:
 1 Row at midpt 4-21
 WEBS 1 Row at midpt 5-20, 6-19, 6-18, 8-17, 8-16

REACTIONS.

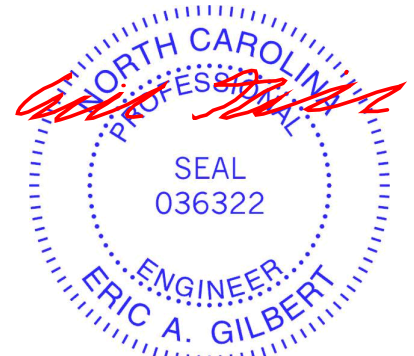
(size) 14=0-3-8, 25=0-3-8
 Max Horz 25=-329(LC 8)
 Max Uplift 14=-481(LC 7), 25=-324(LC 10)
 Max Grav 14=2085(LC 2), 25=1920(LC 2)

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

TOP CHORD 2-4=-507/501, 4-5=-666/191, 5-6=-741/250, 6-7=-835/288, 7-8=-1083/276,
 8-9=-1282/269, 9-10=-1164/142, 10-12=-1033/834
 BOT CHORD 21-25=-1920/1018, 4-21=-1687/732, 20-21=-317/554, 19-20=0/785, 18-19=0/994,
 17-18=0/817, 16-17=-6/1048, 14-16=-978/1167, 12-14=-715/1035
 WEBS 5-20=-636/305, 5-19=-170/648, 6-19=-64/315, 6-18=-449/0, 6-17=-94/347,
 7-17=-53/356, 8-17=-369/240, 8-16=-75/426, 9-16=-526/246, 10-16=-838/2112,
 10-14=-1833/925, 2-21=-373/638, 4-20=-270/1079

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-5-8 to 2-10-14, Interior(1) 2-10-14 to 9-5-13, Exterior(2R) 9-5-13 to 26-0-2, Interior(1) 26-0-2 to 40-8-2, Exterior(2E) 40-8-2 to 45-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Bearing at joint(s) 25 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=481, 25=324.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 25, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job B-80605	Truss T12	Truss Type Piggyback Base	Qty 1	Ply 1	PAMI/Elliott Bridge Rd. Job Reference (optional)	E16337395
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Structural Building Components, LLC, Albemarle, NC - 28001,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:41 2021 Page 1
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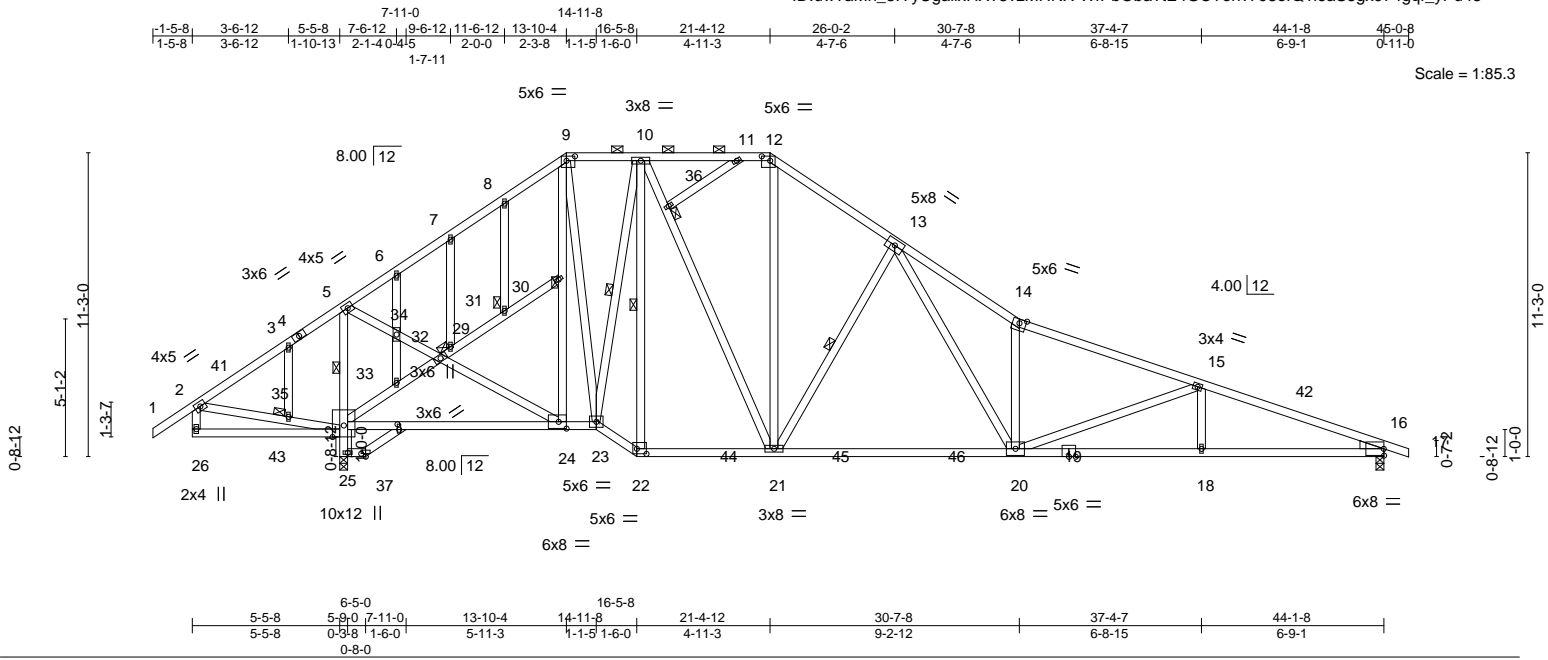


Plate Offsets (X,Y)-- [9:0-3-12,0-2-0], [12:0-3-12,0-2-0], [22:0-4-4,0-2-4], [24:0-3-8,0-3-0], [27:0-2-0,0-1-5], [28:0-2-6,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(LL) -0.38 20-21 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.86	Vert(CT) -0.67 20-21 >695 240		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS	Horz(CT) 0.15 16 n/a n/a		
				Weight: 360 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 14-17: 2x4 SP DSS	TOP CHORD Structural wood sheathing directly applied or 2-9-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-1 max.): 9-12.
BOT CHORD 2x4 SP No.2 *Except* 5-37: 2x4 SP No.3, 19-22: 2x4 SP No.1, 16-19: 2x4 SP DSS	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 1 Row at midpt 5-25
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 10-23, 10-22, 13-21
WEDGE Right: 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 29, 30, 31, 35, 36

REACTIONS. (size) 16=0-3-8, 37=0-3-8
Max Horz 37=-328(LC 8)
Max Uplift 16=-351(LC 11), 37=-350(LC 10)
Max Grav 16=1688(LC 2), 37=2290(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-535/454, 3-5=-499/506, 5-6=-1229/195, 6-7=-1203/229, 7-8=-1251/350,
8-9=-1197/375, 9-10=-1082/414, 10-11=-1419/551, 11-12=-1408/549, 12-13=-1776/590,
13-14=-3682/986, 14-15=-3278/781, 15-16=-3852/920
BOT CHORD 25-37=-2290/1199, 5-25=-1794/768, 24-25=-230/430, 23-24=0/1052, 22-23=0/1325,
21-22=0/1130, 20-21=-289/1991, 18-20=-776/3596, 16-18=-776/3596
WEBS 24-30=-310/278, 9-30=-295/258, 10-23=-271/325, 10-22=-574/22, 10-36=-201/709,
21-36=-201/712, 12-21=-140/719, 13-21=-1159/463, 13-20=-509/2082, 14-20=-1256/441,
15-20=-584/298, 2-35=-428/710, 25-35=-437/715, 9-23=-334/759, 5-34=-559/1521,
29-34=-555/1518, 24-29=-362/1327, 25-33=-292/241, 29-33=-265/222

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TC DL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-5-8 to 2-11-7, Interior(1) 2-11-7 to 9-5-4, Exterior(2R) 9-5-4 to 26-0-2, Interior(1) 26-0-2 to 40-7-9, Exterior(2E) 40-7-9 to 45-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Bearing at joint(s) 37 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=351, 37=350.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337395
B-80605	T12	Piggyback Base	1	1	Job Reference (optional)	

Structural Building Components, LLC, Albemarle, NC - 28001,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:41 2021 Page 2
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NOTES-

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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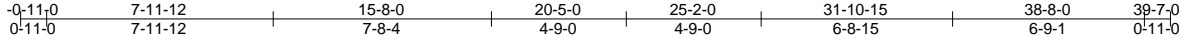
818 Soundside Road
 Edenton, NC 27932

Job B-80605	Truss T13	Truss Type Roof Special	Qty 1	Ply 1	PAMI/Elliott Bridge Rd. Job Reference (optional)	E16337396
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Structural Building Components, LLC, Albemarle, NC - 28001,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:43 2021 Page 1

ID:uw?aMh_8lYyUgaiHX?8vzMHNX-S1XLpHbGPsK_Rno31XCct4VIUwGUcaySbO9xjsyPu46



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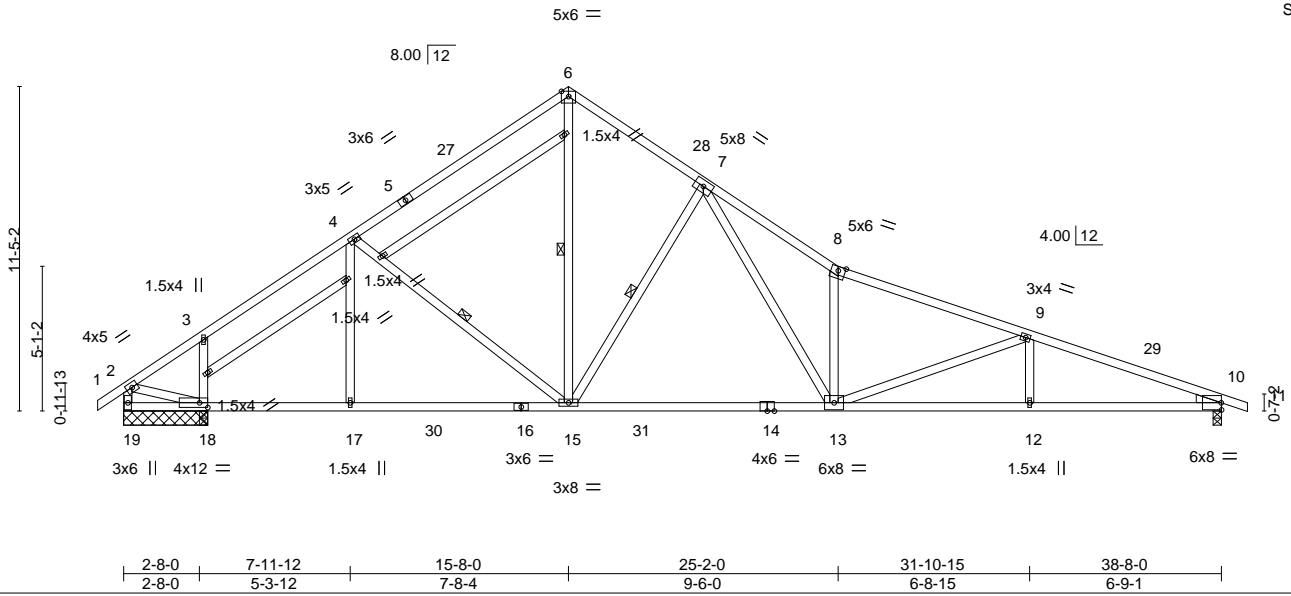


Plate Offsets (X,Y)-- [18:0-3-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.96	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.85	Vert(LL) -0.42 13-15 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.89	Vert(CT) -0.74 13-15 >582 240		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS	Horz(CT) 0.12 10 n/a n/a		
				Weight: 243 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
5-6: 2x4 SP No.1, 8-11: 2x4 SP DSS
BOT CHORD 2x4 SP No.1 *Except*
16-19: 2x4 SP No.2, 10-14: 2x4 SP DSS
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-15, 6-15, 7-15

REACTIONS.

(size) 19=2-11-8, 10=0-3-8, 18=2-11-8, 18=2-11-8
Max Horz 19=-338(LC 8)
Max Uplift 19=-227(LC 11), 10=-356(LC 11), 18=-139(LC 19), 18=-64(LC 1)
Max Grav 19=1827(LC 2), 10=1734(LC 2), 18=71(LC 8)

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

TOP CHORD 2-3=-2240/482, 3-4=-2296/611, 4-6=-1889/617, 6-7=-1841/650, 7-8=-3848/1089,
8-9=-3422/868, 9-10=-3977/995, 2-19=-1839/478
BOT CHORD 18-19=-176/315, 17-18=-318/2042, 15-17=-318/2042, 13-15=-353/2102, 12-13=-847/3714,
10-12=-847/3714
WEBS 4-17=0/261, 4-15=-583/266, 6-15=-455/1662, 7-15=-1159/452, 7-13=-543/2154,
8-13=-1308/477, 9-13=-602/314, 3-18=-290/182, 2-18=-319/1928

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TC DL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-9-12, Interior(1) 2-9-12 to 11-9-10, Exterior(2R) 11-9-10 to 19-6-6, Interior(1) 19-6-6 to 35-8-10, Exterior(2E) 35-8-10 to 39-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=227, 10=356, 18=139.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 25, 2021

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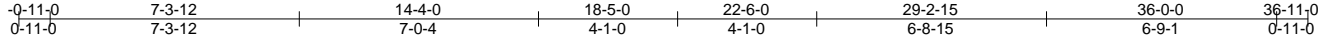
818 Soundside Road
Edenton, NC 27932

Job B-80605	Truss T14	Truss Type Roof Special	Qty 3	Ply 1	PAMI/Elliott Bridge Rd. Job Reference (optional)	E16337397
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Structural Building Components, LLC, Albemarle, NC - 28001,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:44 2021 Page 1

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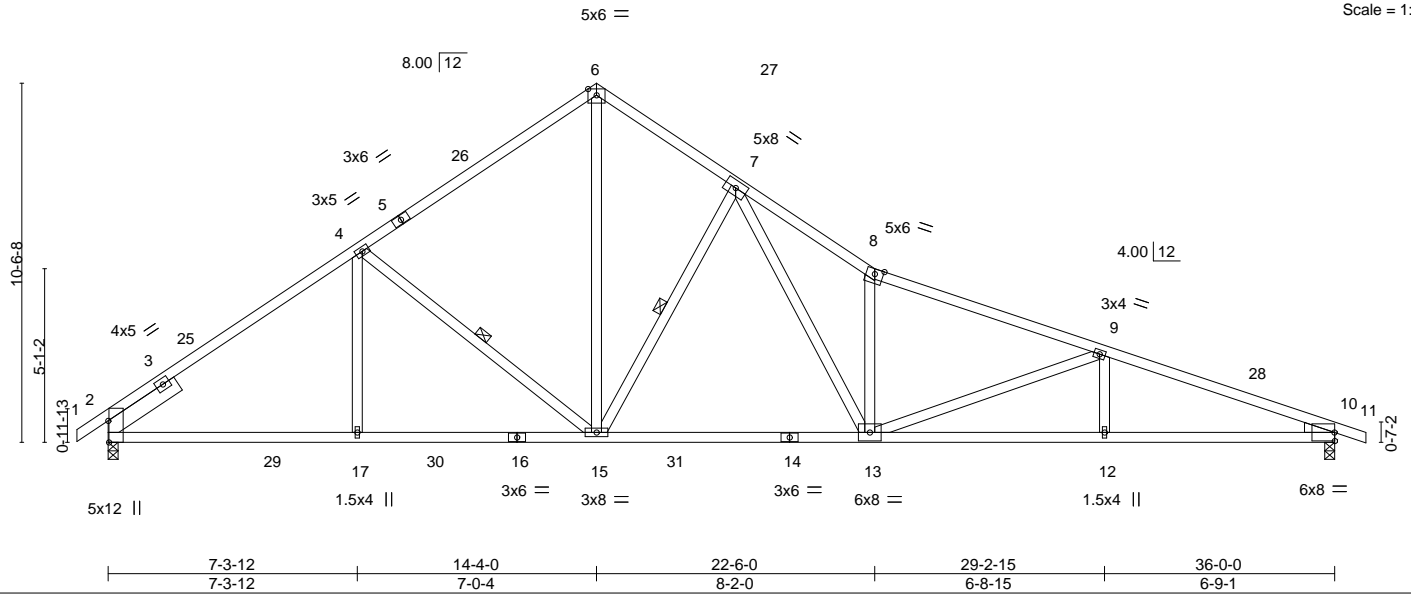


Plate Offsets (X,Y)-- [2:0-7-10,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.97	Vert(LL) -0.33	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.93	Vert(CT) -0.58	13-15	>742	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.92	Horz(CT) 0.11	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS					Weight: 206 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
6-8: 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
10-14: 2x4 SP DSS, 14-16: 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3
SLIDER Left 2x6 SP No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-15, 7-15

REACTIONS.

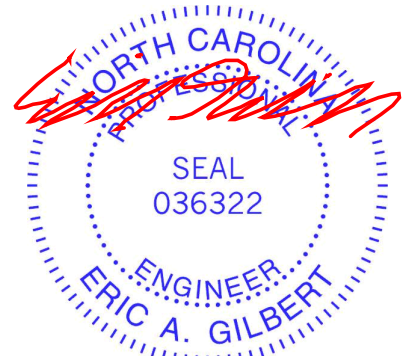
(size) 2=0-3-8, 10=0-3-8
Max Horz 2=-293(LC 8)
Max Uplift 2=-270(LC 10), 10=-336(LC 11)
Max Grav 2=1698(LC 17), 10=1616(LC 2)

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

TOP CHORD 2-4=-2194/601, 4-6=-1765/595, 6-7=-1717/625, 7-8=-3434/1009, 8-9=-3060/805,
9-10=-3662/930
BOT CHORD 2-17=-335/1935, 15-17=-335/1935, 13-15=-332/1949, 12-13=-788/3419, 10-12=-788/3419
WEBS 4-17=0/300, 4-15=-569/290, 6-15=-458/1557, 7-15=-1099/424, 7-13=-506/1939,
8-13=-1184/446, 9-13=-636/303

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TC DL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-8-3, Interior(1) 2-8-3 to 10-8-13, Exterior(2R) 10-8-13 to 17-11-3, Interior(1) 17-11-3 to 33-3-13, Exterior(2E) 33-3-13 to 36-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=270, 10=336.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 25, 2021

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337398
B-80605	T15	Common	1	1		

Structural Building Components, LLC, Albemarle, NC - 28001, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:45 2021 Page 1

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Scale: 3/16"=1'

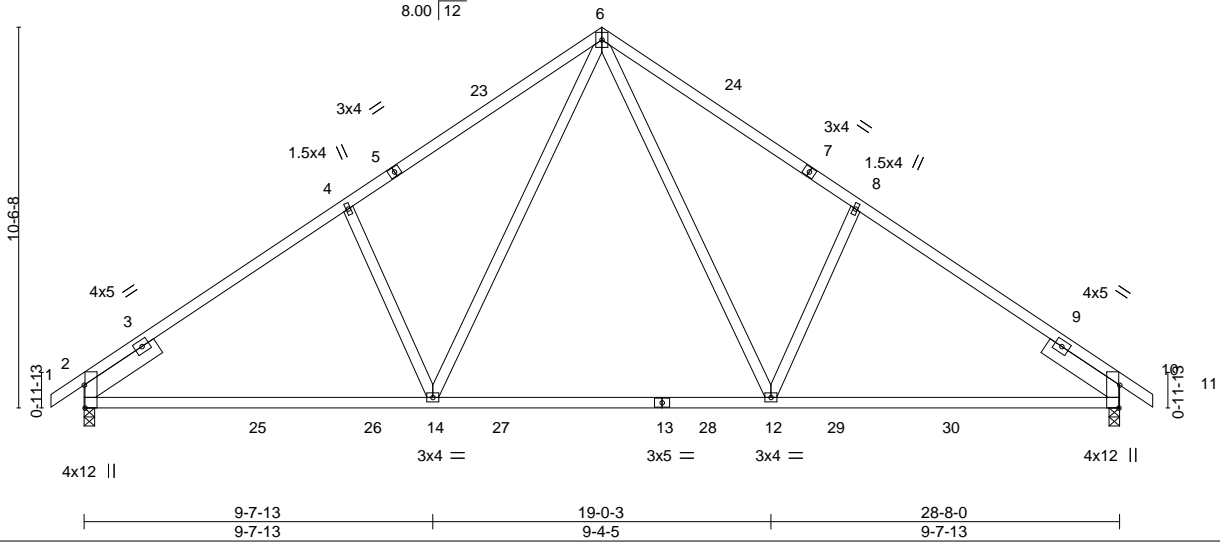


Plate Offsets (X,Y)-- [2:0-7-10,Edge], [10:0-7-10,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.81	Vert(LL) -0.26	12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.77	Vert(CT) -0.42	12-14	>827	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.57	Horz(CT) 0.07	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS						
							Weight: 159 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 2-6-0, Right 2x6 SP No.2 2-6-0

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) 2=0-3-8, 10=0-3-8
 Max Horz 2=-271(LC 8)
 Max Uplift 2=-237(LC 10), 10=-237(LC 11)
 Max Grav 2=1415(LC 17), 10=1415(LC 18)

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

TOP CHORD 2-4=-1716/319, 4-6=-1629/400, 6-8=-1629/400, 8-10=-1716/319
 BOT CHORD 2-14=-297/1538, 12-14=-69/1040, 10-12=-137/1360
 WEBS 6-12=-234/829, 8-12=-382/325, 6-14=-234/829, 4-14=-382/325

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCCL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 11-4-0, Exterior(2R) 11-4-0 to 17-4-0, Interior(1) 17-4-0 to 26-7-0, Exterior(2E) 26-7-0 to 29-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=237, 10=237.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 25, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



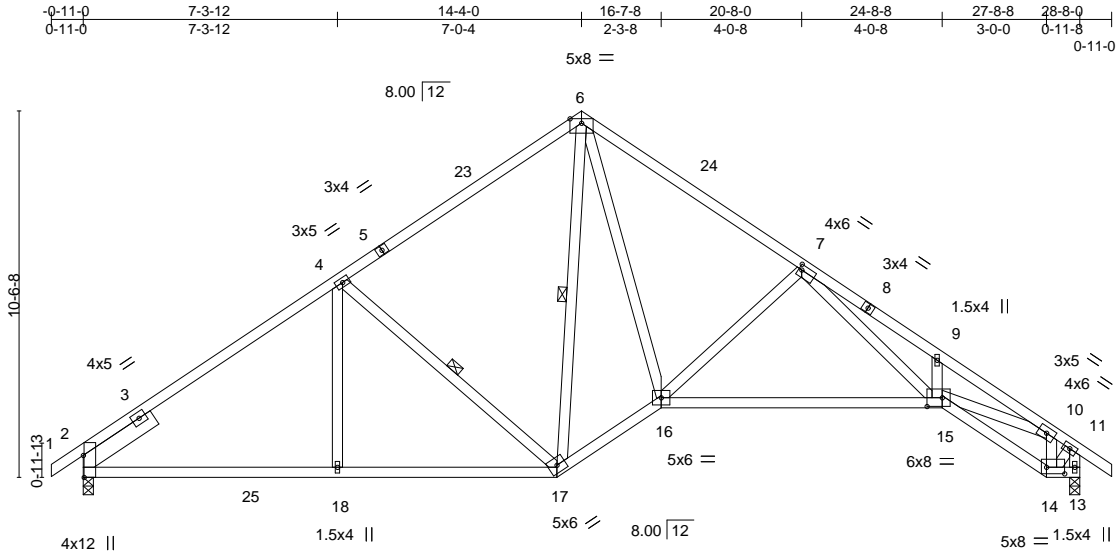
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337399
B-80605	T16	Roof Special	2	1	Job Reference (optional)	

Structural Building Components, LLC, Albemarle, NC - 28001,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:47 2021 Page 1

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Scale = 1:66.3

Plate Offsets (X,Y)-- [2:0-7-10,Edge], [7:0-1-0,0-1-12], [14:0-6-4,0-2-4], [15:0-5-4,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.28	15-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.90	Vert(CT) -0.57	15-16	>598	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.24	13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS						
							Weight: 178 lb	FT = 20%

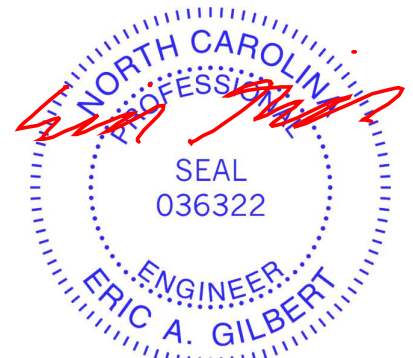
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
15-16: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
10-15: 2x4 SP No.2
SLIDER Left 2x6 SP No.2 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-17, 6-17

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=293(LC 9)
Max Uplift 2=-237(LC 10), 13=-239(LC 11)
Max Grav 2=1348(LC 17), 13=1333(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1644/308, 4-6=-1219/334, 6-7=-1672/351, 7-9=-3741/610, 9-10=-3778/498,
10-11=-986/184, 11-13=-1299/251
BOT CHORD 2-18=-275/1480, 17-18=-275/1480, 16-17=-66/1280, 15-16=-174/1800, 14-15=-143/855
WEBS 4-18=0/306, 4-17=-608/288, 6-16=-93/1353, 7-16=-750/320, 7-15=-284/1920,
10-14=-1146/227, 10-15=-212/2501, 11-14=-201/1054

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TC DL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 11-4-0, Exterior(2R) 11-4-0 to 17-4-0, Interior(1) 17-4-0 to 26-7-0, Exterior(2E) 26-7-0 to 29-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=237, 13=239.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 25, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

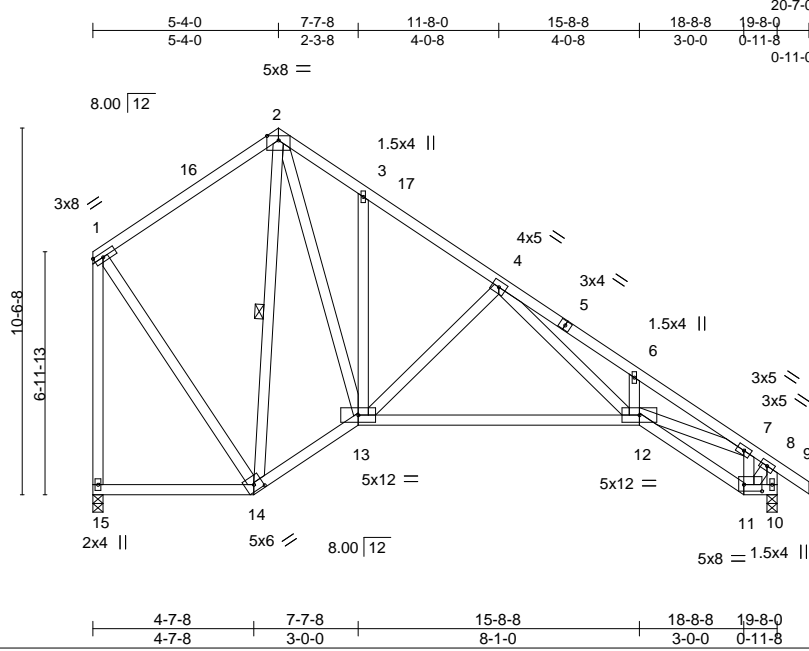
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337400
B-80605	T17	Roof Special	2	1	Job Reference (optional)	

Structural Building Components, LLC, Albemarle, NC - 28001, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:48 2021 Page 1
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Scale = 1:66.2

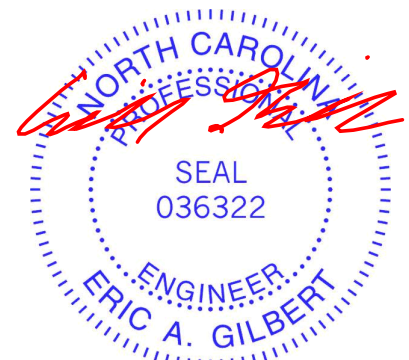
Plate Offsets (X,Y)--	[11:0-6-4,0-2-4], [14:0-3-0,0-2-3]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.83	Vert(LL) -0.19	12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.74	Vert(CT) -0.43	12-13	>545	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.59	Horz(CT) 0.14	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 152 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-14 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-14

REACTIONS. (size) 15=0-3-8, 10=0-3-8
 Max Horz 15=-378(LC 6)
 Max Uplift 15=-180(LC 11), 10=-173(LC 11)
 Max Grav 15=773(LC 1), 10=840(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-411/234, 2-3=-678/272, 3-4=-732/194, 4-6=-2212/432, 6-7=-2229/291, 7-8=-588/132, 1-15=-727/211, 8-10=-820/187
 BOT CHORD 14-15=-242/323, 13-14=-79/518, 12-13=0/899, 11-12=-92/520
 WEBS 2-14=-544/0, 2-13=-115/859, 4-13=-506/234, 4-12=-269/1286, 1-14=-83/517, 7-11=-705/151, 7-12=-83/1425, 8-11=-133/647

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCCL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Exterior(2R) 3-1-12 to 8-4-0, Interior(1) 8-4-0 to 17-7-0, Exterior(2E) 17-7-0 to 20-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=180, 10=173.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

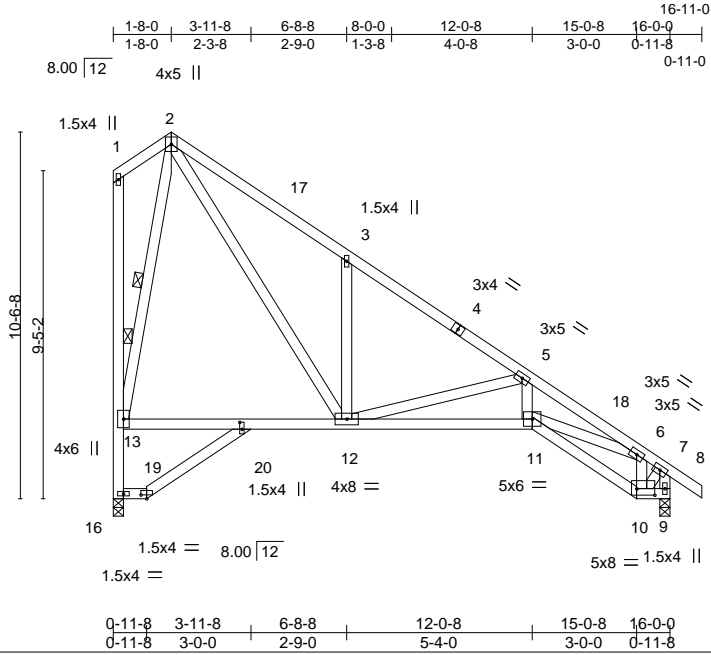


October 25, 2021

Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337401
B-80605	T18	ROOF SPECIAL	3	1	Job Reference (optional)	

Structural Building Components, LLC, Albemarle, NC - 28001,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:49 2021 Page 1
ID:uw?aMh_8lYyUgaiiHX?8vzMHNX-HBuc4Kg0?i589iGDNoJ07LILPKM80KNKzJcFxWyPu40



Scale = 1:66.2

Plate Offsets (X,Y)-- [10:0-6-4,0-2-4], [14:0-2-0,0-1-5], [15:0-2-6,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.80	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(LL) -0.12 12-13 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Vert(CT) -0.20 12-13 >960 240		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	Horz(CT) -0.16 16 n/a n/a		
				Weight: 125 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
14-16: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-14 oc bracing.
WEBS 1 Row at midpt 1-16, 2-13

REACTIONS.

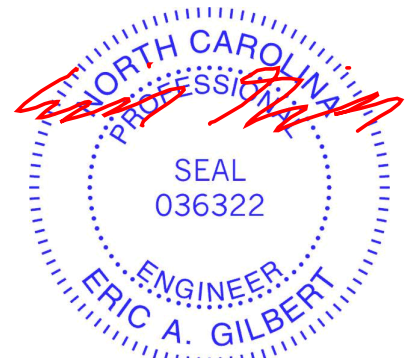
(size) 9=0-3-8, 16=0-3-8
Max Horz 9=-417(LC 8)
Max Uplift 9=-129(LC 11), 16=-212(LC 11)
Max Grav 9=761(LC 18), 16=828(LC 18)

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

TOP CHORD 2-3=-910/340, 3-5=-831/149, 5-6=-2209/541, 6-7=-520/126, 13-16=-828/212, 7-9=-747/175
BOT CHORD 11-12=-603/1885, 10-11=-387/659, 9-10=-413/265
WEBS 2-12=-397/1156, 5-11=-258/835, 2-13=-711/194, 3-12=-402/299, 5-12=-1145/443, 6-10=-676/210, 6-11=-355/1488, 7-10=-63/591

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TC DL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 1-8-0, Exterior(2R) 1-8-0 to 4-8-0, Interior(1) 4-8-0 to 13-11-0, Exterior(2E) 13-11-0 to 16-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=129, 16=212.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 25, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



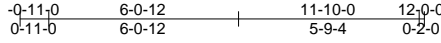
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337402
B-80605	T19	Common	1	2	Job Reference (optional)	

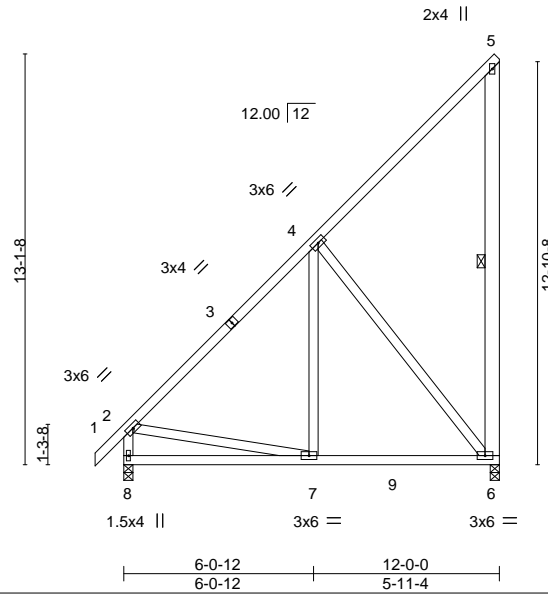
Structural Building Components, LLC, Albemarle, NC - 28001,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:50 2021 Page 1

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Scale = 1:73.6



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) -0.02	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT) -0.04	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT) -0.00	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP				Weight: 214 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt
5-6: 2x6 SP No.2	5-6

REACTIONS. (size) 8=0-3-8, 6=0-3-8
 Max Horz 8=534(LC 7)
 Max Uplift 8=-41(LC 6), 6=-304(LC 7)
 Max Grav 8=711(LC 18), 6=711(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-649/134, 4-5=-348/227, 2-8=-634/182
 BOT CHORD 7-8=-528/327, 6-7=-221/396
 WEBS 4-7=0/299, 2-7=-82/462, 4-6=-552/348

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 8-9-4, Exterior(2E) 8-9-4 to 11-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 6=304.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337403
B-80605	T20	Common	7	1	Job Reference (optional)	

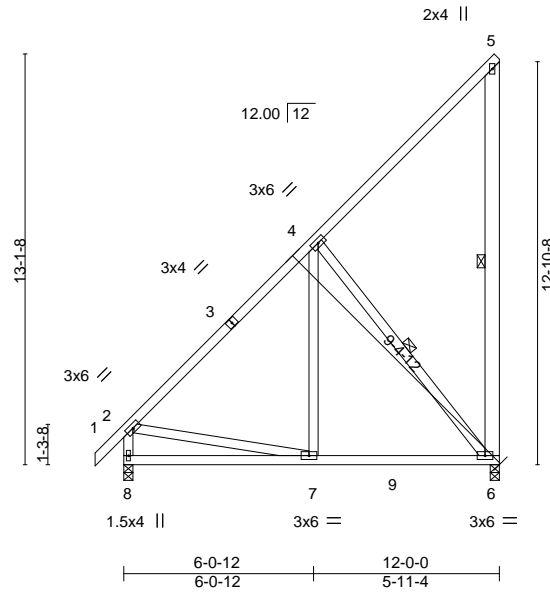
Structural Building Components, LLC, Albemarle, NC - 28001,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:50 2021 Page 1

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-0-11-0 6-0-12 11-10-0 12-0-0
 0-11-0 6-0-12 5-9-4 0-2-0

Scale = 1:73.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL) -0.04	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT) -0.07	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23	Horz(CT) -0.01	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP				Weight: 107 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 7-11-13 oc bracing.
 WEBS 1 Row at midpt 5-6, 4-6

REACTIONS.

(size) 8=0-3-8, 6=0-3-8
 Max Horz 8=534(LC 7)
 Max Uplift 8=-41(LC 6), 6=-304(LC 7)
 Max Grav 8=711(LC 18), 6=711(LC 17)

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

TOP CHORD 2-4=-649/134, 4-5=-348/227, 2-8=-634/182
 BOT CHORD 7-8=-528/327, 6-7=-221/396
 WEBS 4-7=0/299, 2-7=-82/462, 4-6=-552/348

NOTES-

- 1) Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TC DL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 8-9-4, Exterior(2E) 8-9-4 to 11-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 6=304.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 25, 2021

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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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	PAMI/Elliott Bridge Rd.	E16337404
B-80605	T21	Common Supported Gable	1	1	Job Reference (optional)	

Structural Building Components, LLC, Albemarle, NC - 28001,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 25 11:29:51 2021 Page 1

ID:uw?aMh_8lYyUgaiixHX?8vzMHNX-Da0NV0iHXJLs00PcVDLUCmri185qUO7dRd5M?PyPu4_

-0-11-0 11-10-0 12-0-0
0-11-0 11-10-0 0-2-0

Scale = 1:72.6

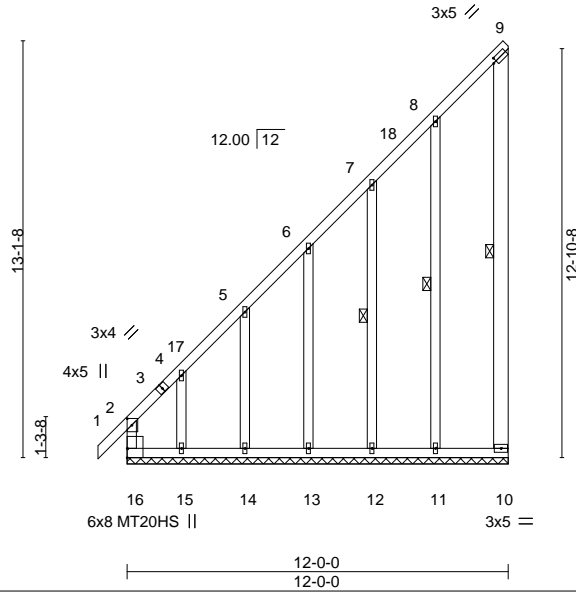


Plate Offsets (X,Y)-- [2:0-2-8,0-1-12], [9:0-1-4,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.73	Vert(LL) -0.00	2	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.50	Vert(CT) -0.00	2	n/r	120	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R						
							Weight: 124 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
9-10: 2x6 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 9-10, 8-11, 7-12

REACTIONS.

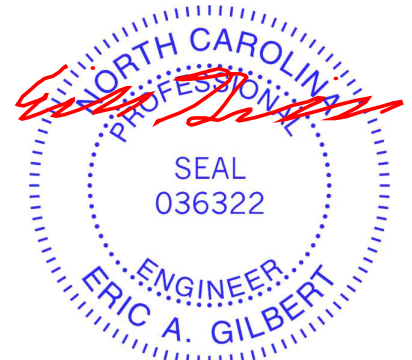
All bearings 12-0-0.
(lb) - Max Horz 16=534(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 14 except 16=369(LC 8), 10=197(LC 9), 11=145(LC 10), 12=115(LC 10), 13=146(LC 10), 15=478(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 10, 11, 12, 13, 14 except 16=693(LC 7), 15=379(LC 8)

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

TOP CHORD 2-16=520/275, 2-4=653/405, 4-5=439/282, 5-6=395/253, 6-7=350/219, 7-8=335/225
BOT CHORD 15-16=226/284, 14-15=226/284, 13-14=226/284, 12-13=226/284, 11-12=226/284, 10-11=226/284
WEBS 4-15=215/425

NOTES-

- 1) Wind: ASCE 7-16; Vult=135mph (3-second gust) Vasd=107mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-11-0 to 2-1-0, Exterior(2N) 2-1-0 to 8-9-4, Corner(3E) 8-9-4 to 11-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 16=369, 10=197, 11=145, 12=115, 13=146, 15=478.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

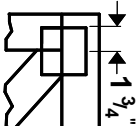
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



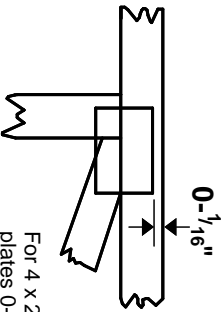
818 Soundside Road
Edenton, NC 27932

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.

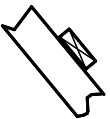
* Plate location details available in **MITek 20/20 software** or upon request.

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



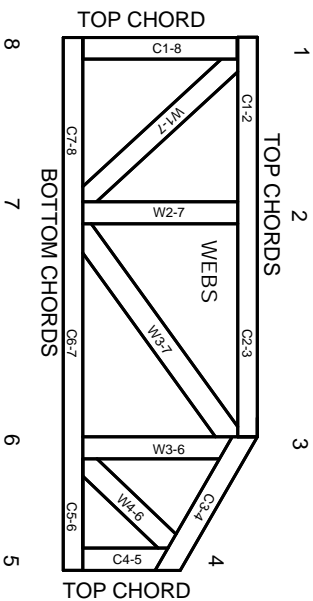
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: 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

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.