

**Trenco**  
818 Soundside Rd  
Edenton, NC 27932

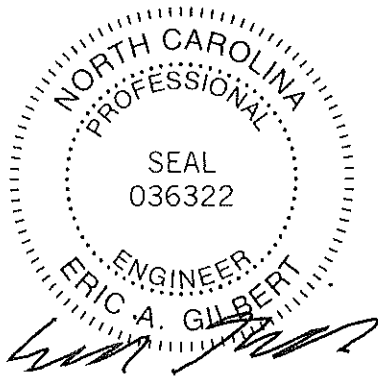
Re: 33644-33644A

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I54603316 thru I54603335

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



October 7, 2022

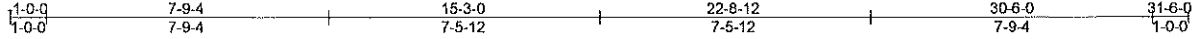
Gilbert, Eric

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

Job 33644-33644A	Truss A1	Truss Type Common	Qty 2	Ply 1	1	154603316
---------------------	-------------	----------------------	----------	----------	---	-----------

84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:28:58 2022 Page 1  
ID:is6TgJ7xgi0\_jSveeoxFt8ywrRii-ReMUHRLy\_yboFzqn2kwn0R3AhUOeR1RH39QANYVIHp



Scale = 1:60.9

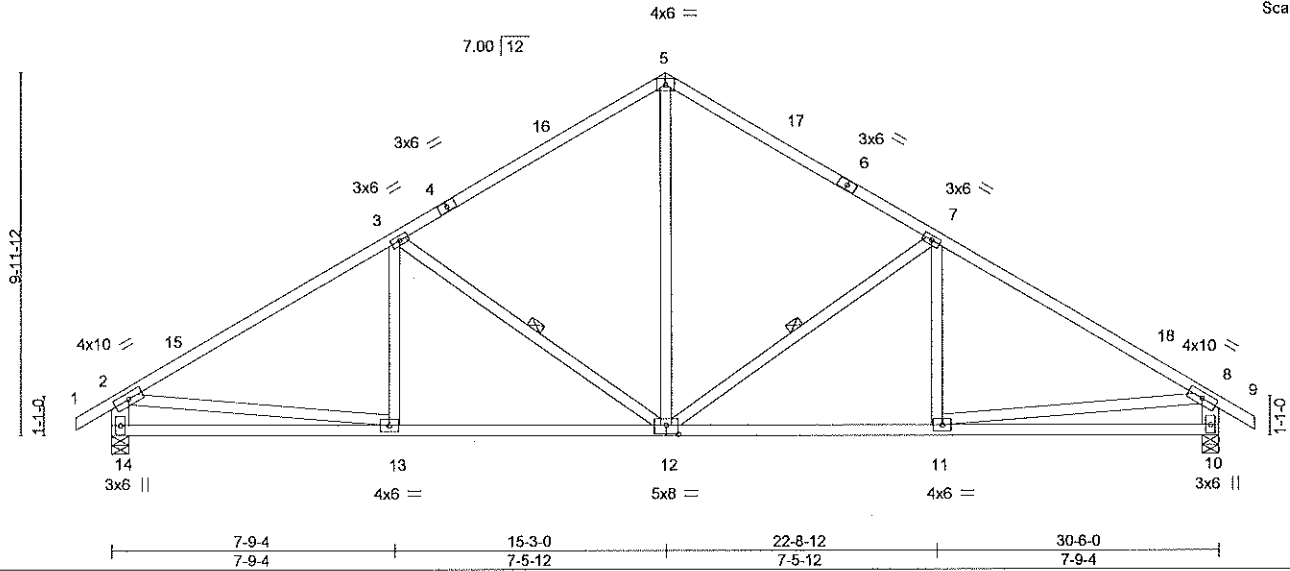


Plate Offsets (X,Y)-- (12:0-4-0,0-3-0)

LOADING (psf)	SPACING-	2-0-0	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL)	-0.08 13-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.17 13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(CT)	0.04 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 182 lb	FT = 20%

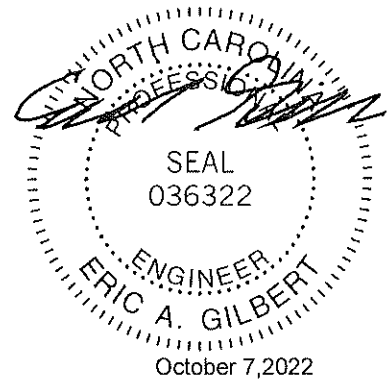
**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.2 \*Except\*  
 2-14,8-10: 2x6 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 7-12, 3-12

**REACTIONS.** (size) 10=0-5-8, 14=0-5-8  
 Max Horz 14=-209(LC 10)  
 Max Uplift 10=-42(LC 13), 14=-42(LC 12)  
 Max Grav 10=1275(LC 1), 14=1275(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1671/55, 3-5=-1228/111, 5-7=-1228/111, 7-8=-1671/55, 2-14=-1204/93, 8-10=-1204/94  
 BOT CHORD 13-14=-181/468, 12-13=-56/1347, 11-12=0/1347, 10-11=-77/335  
 WEBS 5-12=0/706, 7-12=-516/146, 3-12=-516/146, 2-13=0/1026, 8-11=0/1026

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-10, Interior(1) 2-0-10 to 15-3-0, Exterior(2) 15-3-0 to 18-3-10, Interior(1) 18-3-10 to 31-6-0 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 42 lb uplift at joint 10 and 42 lb uplift at joint 14.



**WARNING -** Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MJ-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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY  
**TRENCO**  
 A LUMBER ALLIANCE  
 818 Soundside Road  
 Edenton, NC 27932

Job 33644-33644A	Truss A1E	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Job Reference (optional) 154603317
---------------------	--------------	------------------------------------	----------	----------	---------------------------------------

84 Components (Dunn), Dunn, NC - 28334,

8,620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:00 2022 Page 1

ID:is6Tgj7xgi0\_J9veeoxFt8ywRii-N1TEh7nDWZsWUH\_9A9yF5s8fHHYNGNikkNeWEFyVHn

1-0-0 15-3-0 30-6-0 31-6-0  
1-0-0 15-3-0 15-3-0 1-0-0

Scale = 1:61.1

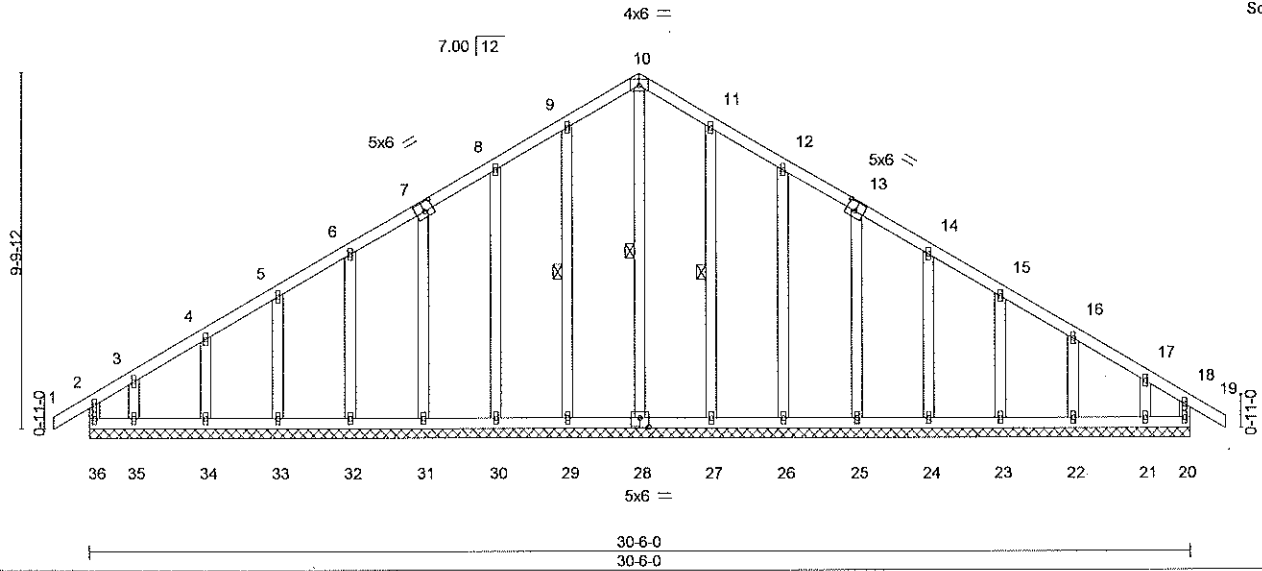


Plate Offsets (X,Y)-- [7:0-3-0,0-3-0], [13:0-3-0,0-3-0], [28:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.14	Ver(LL) -0.00	19	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Ver(CT) -0.01	19	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.00	20	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R					Weight: 213 lb	FT = 20%

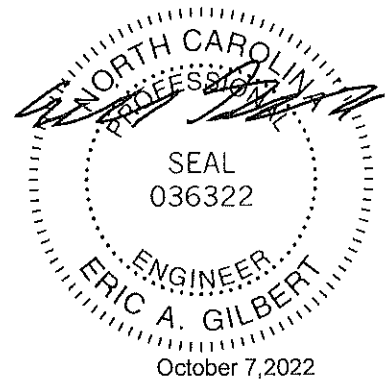
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3 \*Except\*  
10-28,9-29,8-30,11-27,12-26: 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 10-28, 9-29, 11-27

**REACTIONS.** All bearings 30-6-0.  
(lb) - Max Horz 36=-203(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 20, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22, 21 except 36=-107(LC 8), 35=-113(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 36, 20, 28, 29, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22, 21

**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 7-10; Vult=115mph Vasc=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-10, Exterior(2) 2-0-10 to 15-3-0, Corner(3) 15-3-0 to 18-3-10, Exterior(2) 18-3-10 to 31-6-0 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) 20, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22, 21 except (l=lb) 36=107, 35=113.



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

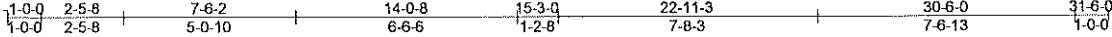
ENGINEERING BY  
**TRENCO**  
A L L I E A B B I E  
818 Soundside Road  
Edenton, NC 27932

Job 33644-33644A	Truss A2	Truss Type Common	Qty 5	Ply 1	1: Job Reference (optional)	IS4603318
---------------------	-------------	----------------------	----------	----------	--------------------------------	-----------

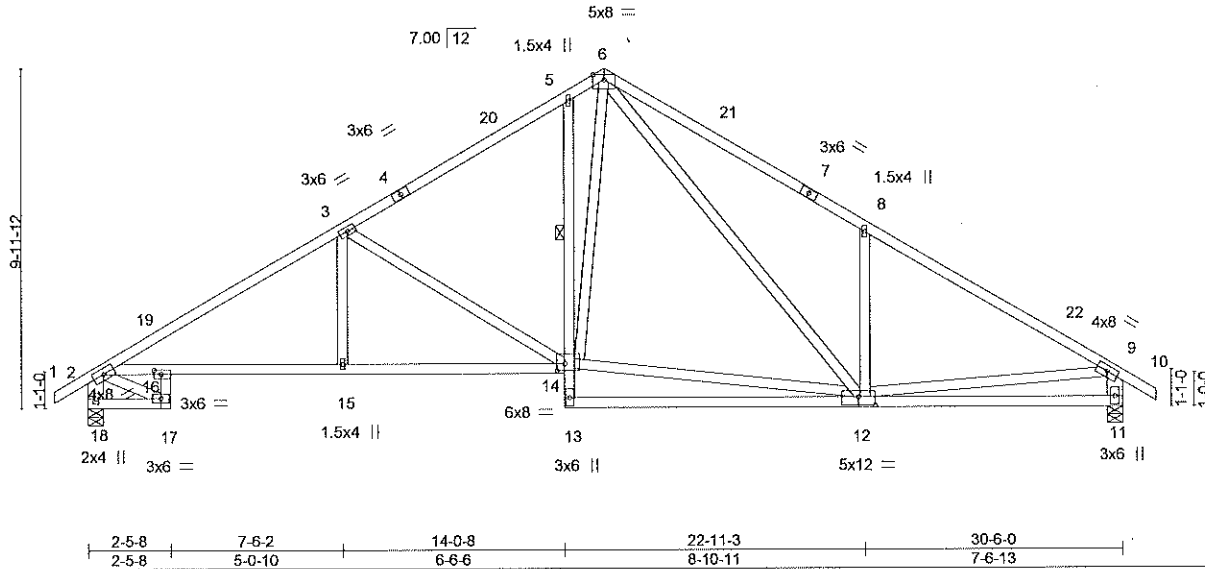
84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:02 2022 Page 1

ID:is6TgJ7xgi0\_J9veeoxF18ywrRii-KQb\_6ppT2B6Ej8YHa\_jBHDpk54va7L1Ch7dJ8yVtHl



Scale = 1:65.2



LOADING (psf)	SPACING-	2-0-0	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.15	12-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.34	12-13	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.14	11	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MS					Weight: 202 lb	FT = 20%

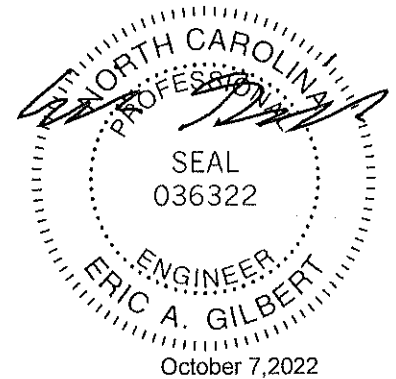
**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 16-17: 2x4 SP No.3, 2-14: 2x4 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 2-18,9-11: 2x6 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:  
 1 Row at midpt 5-14

**REACTIONS.** (size) 18=0-5-8, 11=0-5-8  
 Max Horz 18=-211(LC 10)  
 Max Uplift 18=-40(LC 12), 11=-42(LC 13)  
 Max Grav 18=1275(LC 1), 11=1275(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2055/76, 3-5=-1418/93, 5-6=-1284/151, 6-8=-1682/206, 8-9=-1683/52,  
 2-18=-1300/74, 9-11=-1208/90  
 BOT CHORD 17-18=-173/416, 2-16=-32/1530, 15-16=-76/1692, 14-15=-76/1692, 11-12=-73/307  
 WEBS 3-15=0/350, 3-14=-699/145, 12-14=0/919, 6-12=-188/584, 8-12=-478/229, 9-12=0/1073,  
 6-14=-120/801

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-10, Interior(1) 2-0-10 to 15-3-0, Exterior(2) 15-3-0 to 18-3-10, Interior(1) 18-3-10 to 31-6-0 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) 18, 11.



**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

ENGINEERING BY  
**TRENCO**  
 A LUMBER AFFILIATE  
 818 Soundside Road  
 Edenton, NC 27932

Job 33644-33644A	Truss A2A	Truss Type ROOF TRUSS	Qty 5	Ply 1	1	154603319
---------------------	--------------	--------------------------	----------	----------	---	-----------

B4 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MITek Industries, Inc. Fri Oct 7 07:29:03 2022 Page 1

ID:is6TgJ7xgi0\_J9vveoxF8BywRii-oc9NK9p5ocUE5LlkrHVyUUm4rVNZJcSAQLlBrayVlHk



Scale = 1:60.7

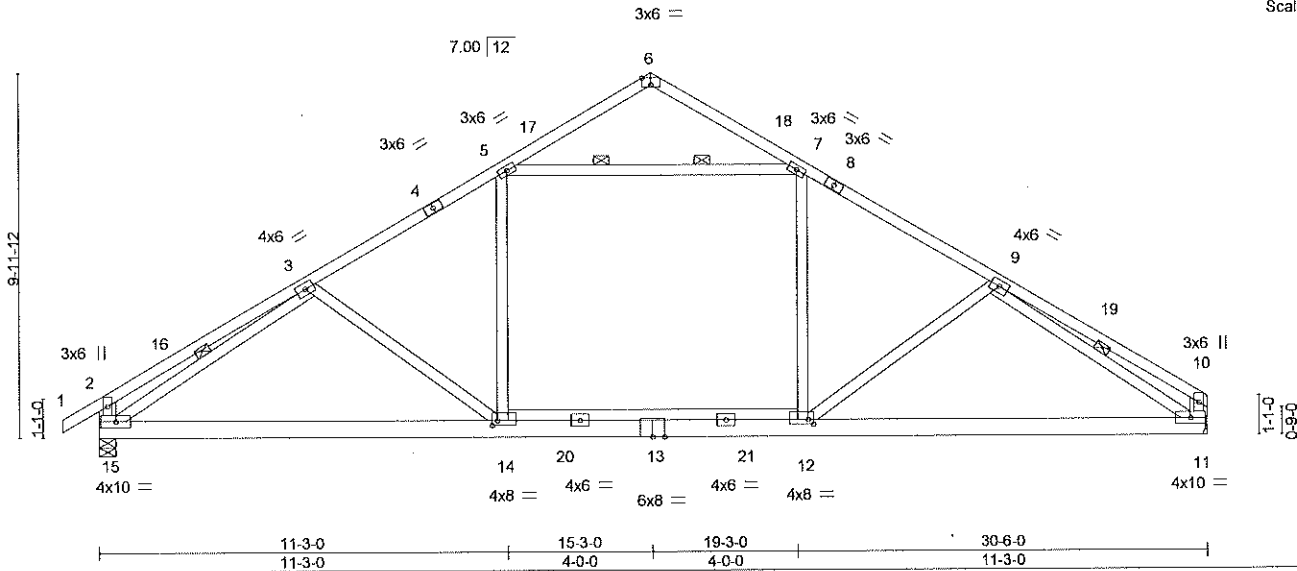


Plate Offsets (X,Y)-- [6:0-3-0,Edge], [12:0-1-12,0-1-8], [14:0-1-12,0-1-8]

LOADING (psf)	SPACING-	2-1-8	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.35	11-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.44	11-12	>823		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.62	Horz(CT)	0.05	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.27	12-14	368	Weight: 211 lb	FT = 20%

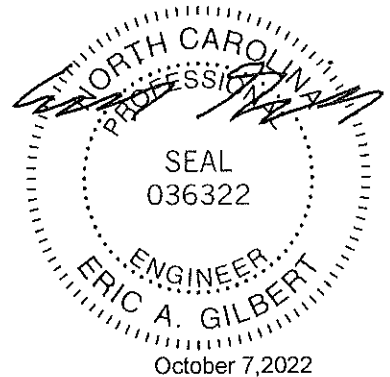
**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\*  
 12-14: 2x4 SP No.2  
 WEBS 2x4 SP No.2 \*Except\*  
 2-15,10-11: 2x6 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 9-11, 3-15  
 2 Rows at 1/3 pts 5-7

**REACTIONS.** (size) 15=0-5-8, 11=Mechanical  
 Max Horz 15=215(LC 11)  
 Max Grav 15=1647(LC 20), 11=1573(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-599/112, 3-5=-2155/0, 5-6=-299/67, 6-7=-298/67, 7-9=-2157/0, 9-10=-555/83,  
 2-15=-511/113, 10-11=-397/76  
 BOT CHORD 14-15=0/1956, 12-14=0/1843, 11-12=0/1834  
 WEBS 5-14=0/646, 7-12=0/652, 9-11=-1984/0, 5-7=-1615/0, 3-15=-1911/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-10, Interior(1) 2-0-10 to 15-3-0, Exterior(2) 15-3-0 to 18-3-10, Interior(1) 18-3-10 to 30-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 200.0lb AC unit load placed on the bottom chord, 15-3-0 from left end, supported at two points, 5-0-0 apart.
  - 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). 5-7
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-14
  - Refer to girder(s) for truss to truss connections.
  - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



**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

ENGINEERING BY  
**TRENCO**  
 A LIND-BAKER COMPANY  
 818 Soundside Road  
 Edenton, NC 27932

Job 33644-33644A	Truss A3	Truss Type COMMON	Qty 5	Ply 1	154603320
---------------------	-------------	----------------------	----------	----------	-----------

B4 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:05 2022 Page 1  
ID:is6TgJ7xgiD\_J9veeoXFtBywRii-k?H7IrrLK6Uoa2s7zYQovrL9i8ynaTTufMHwTyVtHI

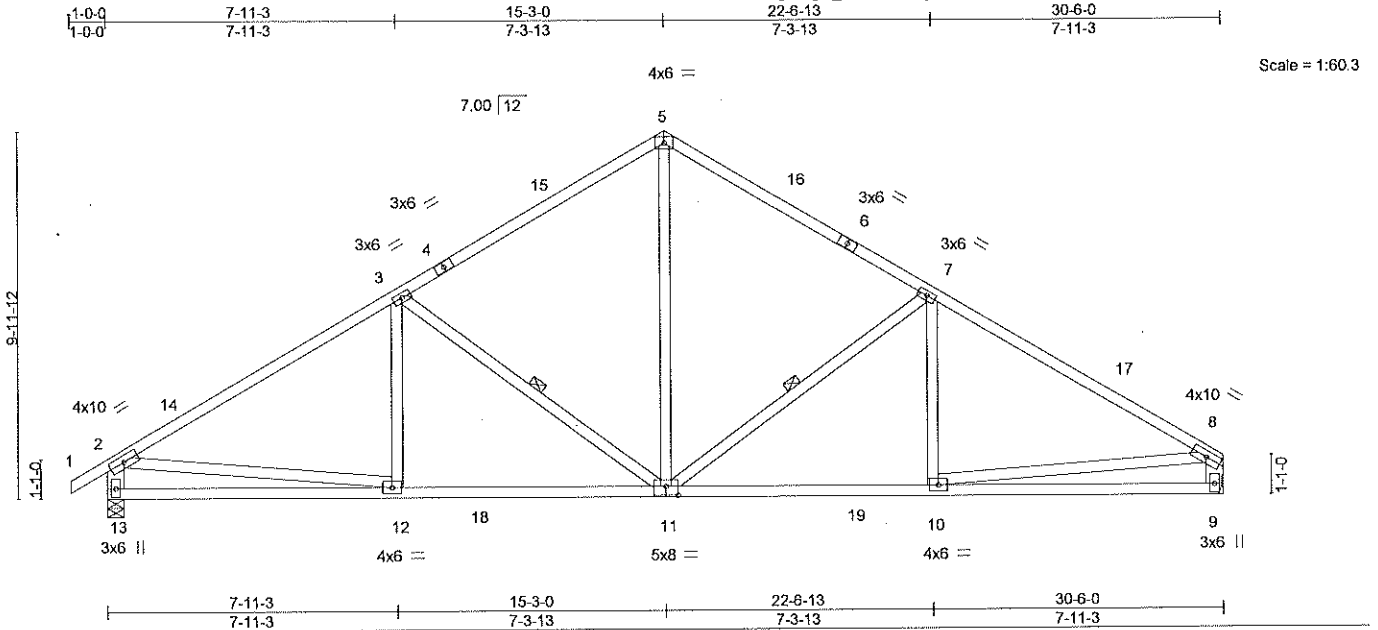


Plate Offsets (X,Y)~ [11:0-4-0,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	<b>L/defl</b>	<b>L/d</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.77	Vert(LL) -0.09 12-13 >999	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.19 12-13 >999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.27	Horz(CT) 0.04 9 n/a	n/a			
BCDL 10.0	Code IRC2015/TP12014	Matrix-MS				Weight: 181 lb	FT = 20%

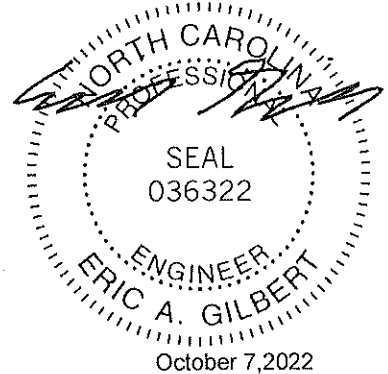
**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.2 \*Except\*  
 2-13,8-9: 2x6 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 7-11, 3-11

**REACTIONS.** (size) 9=Mechanical, 13=0-5-8  
 Max Horz 13=204(LC 9)  
 Max Uplift 9=-25(LC 13), 13=-42(LC 12)  
 Max Grav 9=1200(LC 1), 13=1277(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1671/55, 3-5=-1227/112, 5-7=-1229/115, 7-8=-1672/55, 2-13=-1203/95,  
 8-9=-1126/67  
 BOT CHORD 12-13=-191/483, 11-12=-63/1421, 10-11=0/1353, 9-10=-44/257  
 WEBS 5-11=-677/33, 7-11=-569/148, 3-11=-557/145, 2-12=0/1019, 8-10=0/1103

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 1-0-0 to 2-0-10, Interior(1) 2-0-10 to 15-3-0, Exterior(2) 15-3-0 to 18-3-10, Interior(1) 18-3-10 to 30-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 13.

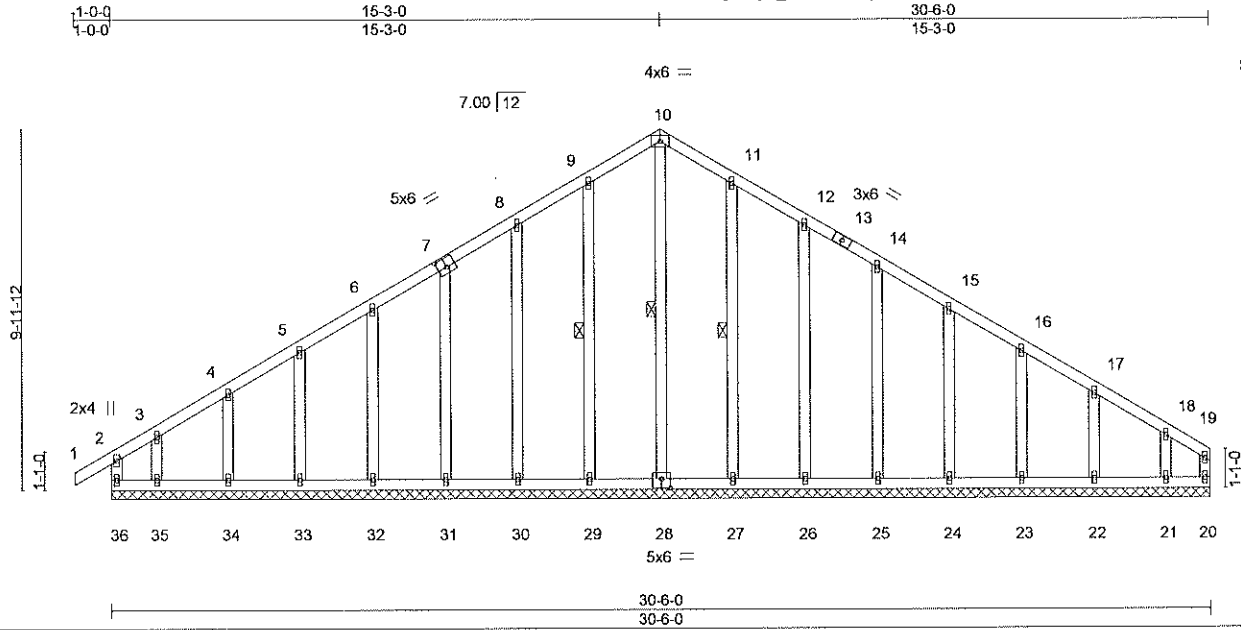


<p><b>WARNING -</b> Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.          Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20611</p>	<p>ENGINEERING BY  <b>TRENCO</b>          A MITEK AFFILIATE</p> <p>818 Soundside Road          Edenton, NC 27932</p>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------

Job 33644-33644A	Truss A3E	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	1	IS4603321
---------------------	--------------	------------------------------------	----------	----------	---	-----------

84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:06 2022 Page 1  
ID:ie6TgJ7xgi0\_J9veeoXf8BywRii-CBrVyBs\_5PcCCRJWP3fL7OgQibYW49c7J5rSvyVtHh



Scale = 1:61.3

Plate Offsets (X,Y)-- [7:0-3-0,0-3-0], [28:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	20	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-R						Weight: 215 lb	FT = 20%

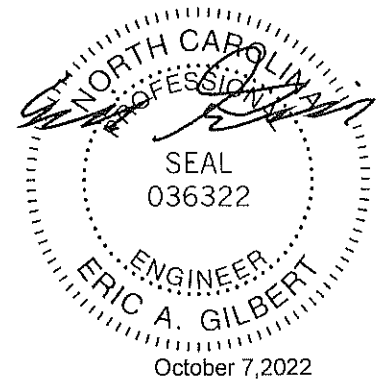
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
19-20: 2x4 SP No.2  
OTHERS 2x4 SP No.3 \*Except\*  
10-28,9-29,8-30,11-27,12-26: 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 10-28, 9-29, 11-27

**REACTIONS.** All bearings 30-6-0.  
(lb) - Max Horz 36=203(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 20, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22 except 36=-125(LC 8), 35=-125(LC 12), 21=-107(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 36, 20, 28, 29, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22, 21

**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 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-10, Exterior(2) 2-0-10 to 15-3-0, Corner(3) 15-3-0 to 18-3-10, Exterior(2) 18-3-10 to 30-4-4 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
  - 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) 20, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22 except (jt=ib) 36=125, 35=125, 21=107.



**WARNING -** Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY  
**TRENCO**  
A MITEK AFFILIATE  
818 Soundside Road  
Edenton, NC 27932

Job 33644-33644A	Truss B1E	Truss Type GABLE	Qty 1	Ply 1	154603322
---------------------	--------------	---------------------	----------	----------	-----------

84 Components (Dunn),

Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:07 2022 Page 1  
ID:is6TgJ7xgi0\_J9veeoxF18ywRii-gNOt9WscsjkWqM0V47auuKxss6x?FYCmLzr0\_LyVIHg

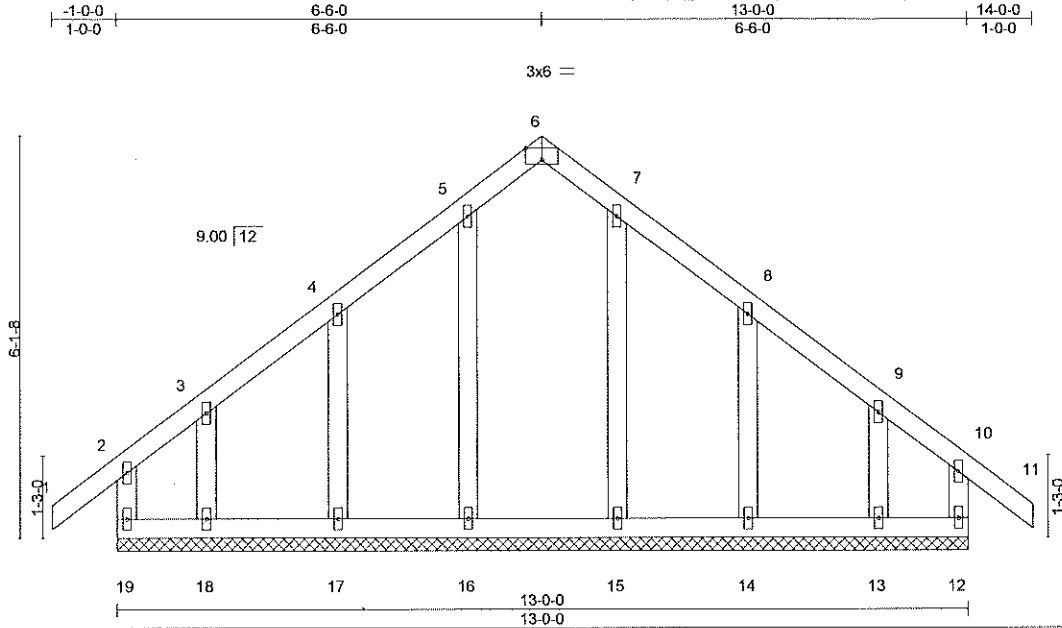


Plate Offsets (X,Y)-- [6:0-3:0,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) -0.00	11	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.01	11	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R					Weight: 79 lb	FT = 20%

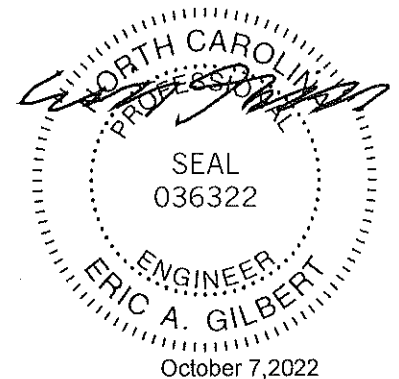
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 13-0-0.  
(lb) - Max Horz 19=138(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 19, 12, 17, 14, 13 except 18=102(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 19, 12, 16, 17, 18, 15, 14, 13

**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 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 6-6-0, Corner(3) 6-6-0 to 9-7-12, Exterior(2) 9-7-12 to 14-0-0 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
  - 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, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 12, 17, 14, 13 except (j=lb) 18=102.



**WARNING -** Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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

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



Job 33644-33644A	Truss C1E	Truss Type COMMON STRUCTURAL GA	Qty 1	Ply 1	154603323
---------------------	--------------	------------------------------------	----------	----------	-----------

84 Components (Dunn), Dunn, NC - 28334, 8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:08 2022 Page 1  
 ID:is6Tg,i7xgi0\_j9veeoxFt8ywRii-8ZyGNstEd0sNRWbieq57QYTz3WC4\_wHvadayXnyVtHf

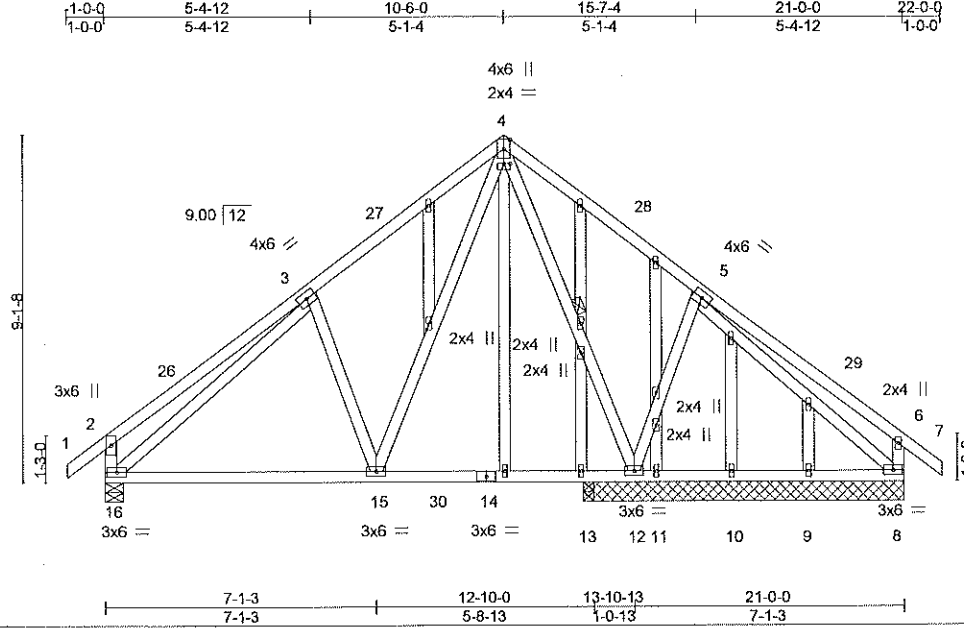


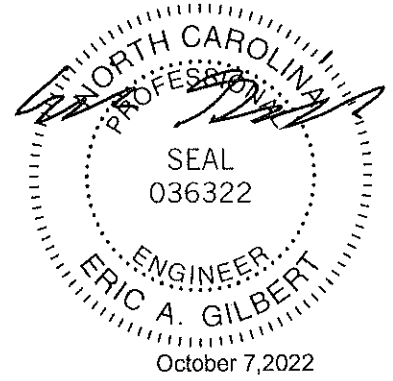
Plate Offsets (X,Y)--	[4:0-2-0,0-0-0]						
<b>LOADING (psf)</b>	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	<b>L/defl</b>	<b>L/d</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.34	Vert(LL) -0.06 15-16 >999	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.12 15-16 >999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.01 8 n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS				Weight: 183 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
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.2 *Except* 5-12,3-15,2-16,6-8; 2x4 SP No.3	WEBS 1 Row at midpt 4-12
OTHERS 2x4 SP No.3 *Except* 4-17; 2x4 SP No.2	

**REACTIONS.** All bearings 8-5-8 except (jt=length) 16=0-5-8, 13=0-3-8, 13=0-3-8.  
 (lb) - Max Horz 16=-196(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 16, 8 except 12=-109(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 11, 10, 9, 13 except 12=628(LC 1),  
 16=615(LC 1), 8=310(LC 24), 13=303(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-4=-470/134, 2-16=-301/120, 6-8=-263/133  
 BOT CHORD 15-16=-62/463  
 WEBS 4-12=-479/12, 5-12=-300/182, 4-15=-88/443, 3-15=-258/179, 3-16=-388/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-6-0, Exterior(2) 10-6-0 to 13-6-0, Interior(1) 13-6-0 to 22-0-0 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
  - 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 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, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 8 except (jt=lb) 12=109.



<p><b>WARNING</b> - 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 ANSITP1 Quality Criteria, DSB-69 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY  <b>TRENCO</b>          A MITEK AFFILIATE          818 Soundside Road          Edenonton, NC 27932</p>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------

Job 33644-33644A	Truss C2	Truss Type COMMON	Qty 2	Ply 1	154603324
---------------------	-------------	----------------------	----------	----------	-----------

B4 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, inc. Fri Oct 7 07:29:10 2022 Page 1

ID:is6TgJ7xgi0\_J9veexF18ywrIii-5y40oYvU9e65hpl4IF7bVzZCVJrMRtaC1x32bgyVHd

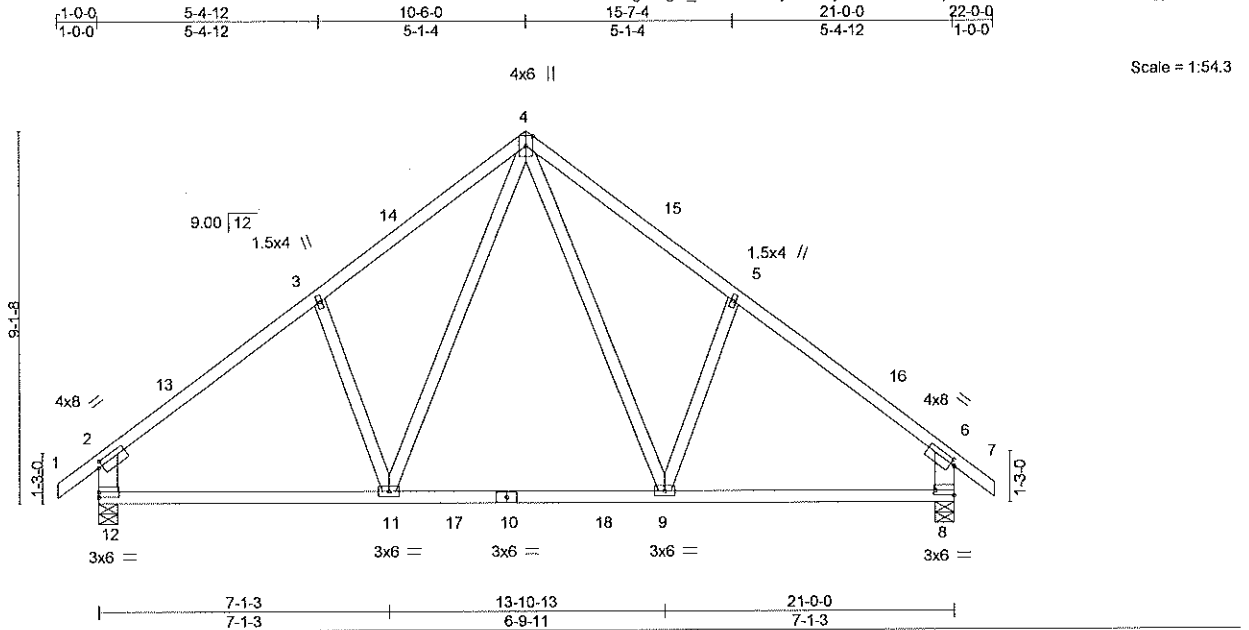


Plate Offsets (X,Y)-- [2:0-1-3,0-1-8], [6:0-1-3,0-1-8], [8:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.80	Vert(LL) -0.22	9-11	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.60	Vert(CT) -0.37	9-11	>658	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.15	Horz(CT) 0.02	8	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 121 lb	FT = 20%
	Code IRC2015/TPI2014							

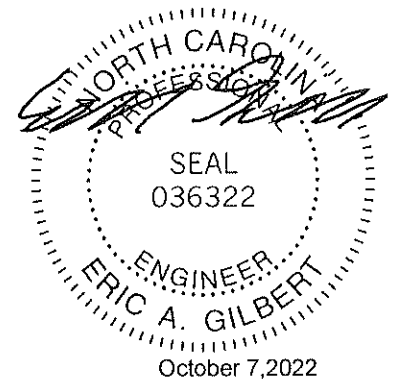
**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.2 \*Except\*  
 2-12,6-8: 2x6 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 12=0-5-8, 8=0-5-8  
 Max Horz 12=-198(LC 10)  
 Max Uplift 12=-24(LC 12), 8=-24(LC 13)  
 Max Grav 12=895(LC 1), 8=895(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-937/59, 3-4=-792/133, 4-5=-792/133, 5-6=-937/59, 2-12=-800/95, 6-8=-800/95  
 BOT CHORD 11-12=-42/731, 9-11=0/540, 8-9=0/640  
 WEBS 4-9=-96/367, 4-11=-96/367

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-6-0, Exterior(2) 10-6-0 to 13-6-0, Interior(1) 13-6-0 to 22-0-0 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
  - 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 BCCL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8.



**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 ANSIP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

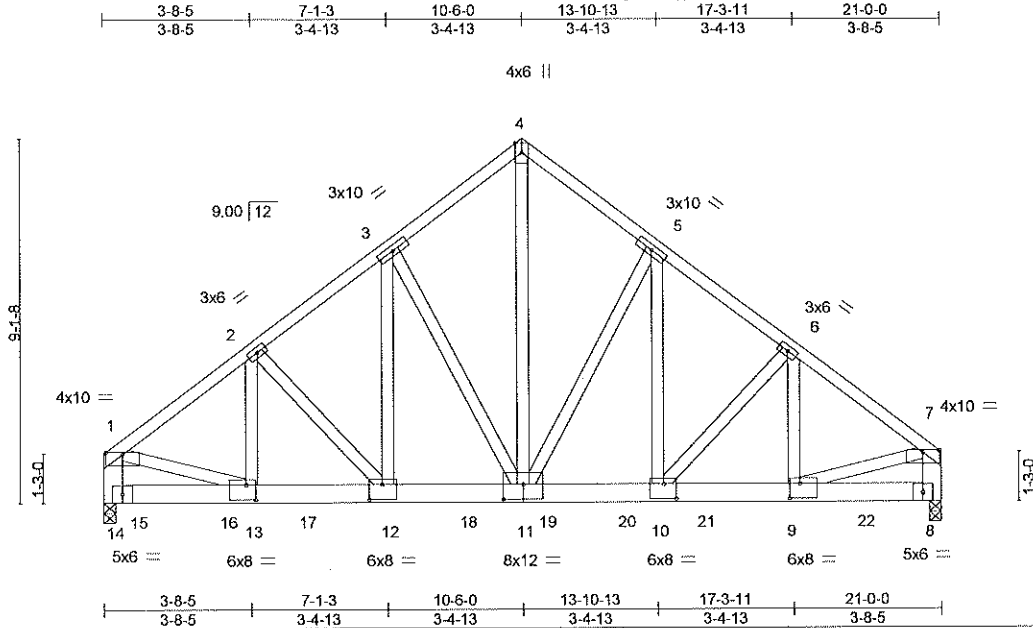
ENGINEERING BY  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job 33644-33644A	Truss C3G	Truss Type MOD. QUEEN	Qty 1	Ply 2	1	154603325
---------------------	--------------	--------------------------	----------	----------	---	-----------

84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:11 2022 Page 1

ID:is6TgJ7xgi0\_J9veeoXfT8ywRii-Z8eO?uw6wxEyJzKHJzfq2A5TEjEXAAxL.Gbpc76yVhC



Scale = 1:55.4

Plate Offsets (X,Y)-- [9:0-3-0,0-4-8], [10:0-3-12,0-4-8], [11:0-6-0,0-4-8], [12:0-3-12,0-4-8], [13:0-3-0,0-4-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.41	Vert(LL)	-0.08	11-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.17	11-12	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.78	Horz(CT)	0.03	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 349 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP DSS  
WEBS 2x4 SP No.2  
OTHERS 2x6 SP No.2

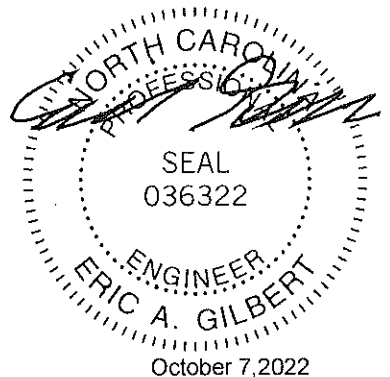
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-3-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 14=0-3-8, 8=0-3-8  
Max Horz 14=-178(LC 23)  
Max Grav 14=7994(LC 2), 8=6727(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-7838/0, 2-3=-7120/0, 3-4=-5568/0, 4-5=-5568/0, 5-6=-6790/0, 6-7=-7307/0,  
1-14=-6370/0, 7-8=-5960/0  
BOT CHORD 13-14=0/820, 12-13=0/6214, 11-12=0/5664, 10-11=0/5392, 9-10=0/5784, 8-9=0/659  
WEBS 4-11=0/6384, 5-11=-2011/310, 5-10=-249/2309, 6-10=-595/230, 6-9=-232/594,  
3-11=-2682/0, 3-12=0/3173, 2-12=-820/0, 2-13=0/907, 1-13=0/5691, 7-9=0/5339

- 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: 2x6 - 2 rows staggered at 0-4-0 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 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
  - 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.
  - Bearing at joint(s) 14, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1508 lb down at 0-9-12, 1503 lb down at 3-0-12, 1503 lb down at 5-0-12, 1503 lb down at 7-0-12, 1503 lb down at 9-0-12, 1180 lb down and 45 lb up at 11-0-12, 1180 lb down and 45 lb up at 13-0-12, 1180 lb down and 45 lb up at 15-0-12, and 1180 lb down and 45 lb up at 17-0-12, and 1180 lb down and 45 lb up at 19-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



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.  
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 building design. 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

ENGINEERED BY  
**TRENCO**  
A MITEK COMPANY  
816 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	
33644-33644A	C3G	MOD. QUEEN	1	2	154603325

84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:12 2022 Page 2  
 ID:is6TgJ7xgi0\_J9veeoxF18ywrIi-1LCmDEwkhFMpw7uTtgA3bOee\_7amvdBVVFY9gZyVHb

**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 8-14=-20

Concentrated Loads (lb)

Vert: 9=-1180(F) 12=-1398(F) 15=-1403(F) 16=-1398(F) 17=-1398(F) 18=-1398(F) 19=-1180(F) 20=-1180(F) 21=-1180(F) 22=-1180(F)

<p><b>WARNING</b> - 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 ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY  <b>TRENCO</b>  <small>A MITEK ALLIATE</small></p> <p>818 Soundside Road          Edenton, NC 27932</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------

Job 33644-33644A	Truss M1	Truss Type Monopitch	Qty 7	Ply 1	I54603326
---------------------	-------------	-------------------------	----------	----------	-----------

84 Components (Dunn), Dunn, NC - 28334, 8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:12 2022 Page 1

ID:is6TgJ7xgi0\_J9veeoxF18ywril-1LCmDEwkhFMpw7uTtgA3bOeeu7cTvpQVVFY9gZyVtHb

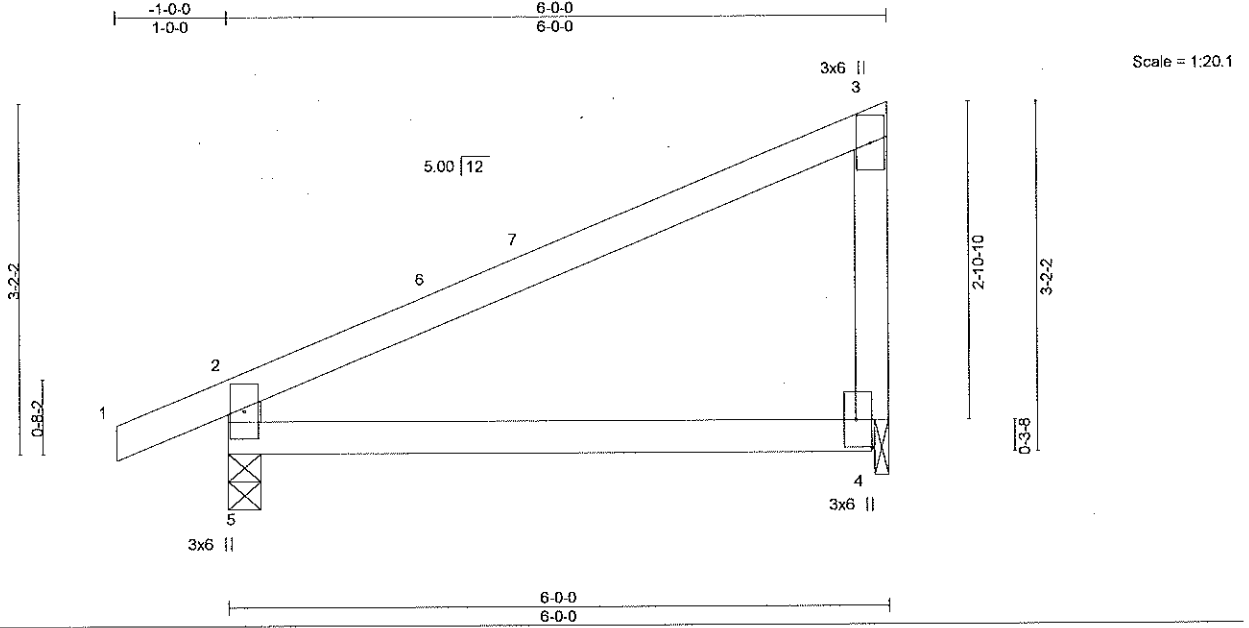


Plate Offsets (X,Y)-- [4:Edge,0-1-12]											
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL 20.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	-0.04	4-5	>999	MT20	244/190		
TCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.08	4-5	>829	Weight: 24 lb	FT = 20%		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a				
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR								

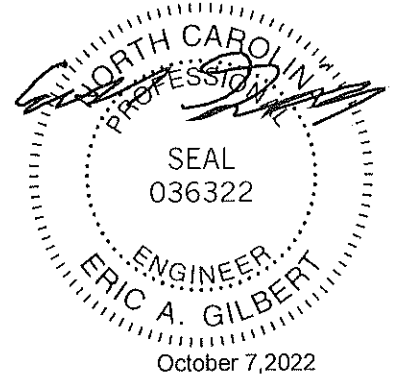
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.2 \*Except\*  
2-5: 2x4 SP No.3

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

**REACTIONS.** (size) 5=0-3-8, 4=0-1-8  
Max Horz 5=97(LC 9)  
Max Uplift 5=-25(LC 12), 4=-27(LC 12)  
Max Grav 5=304(LC 1), 4=221(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-5=-261/126

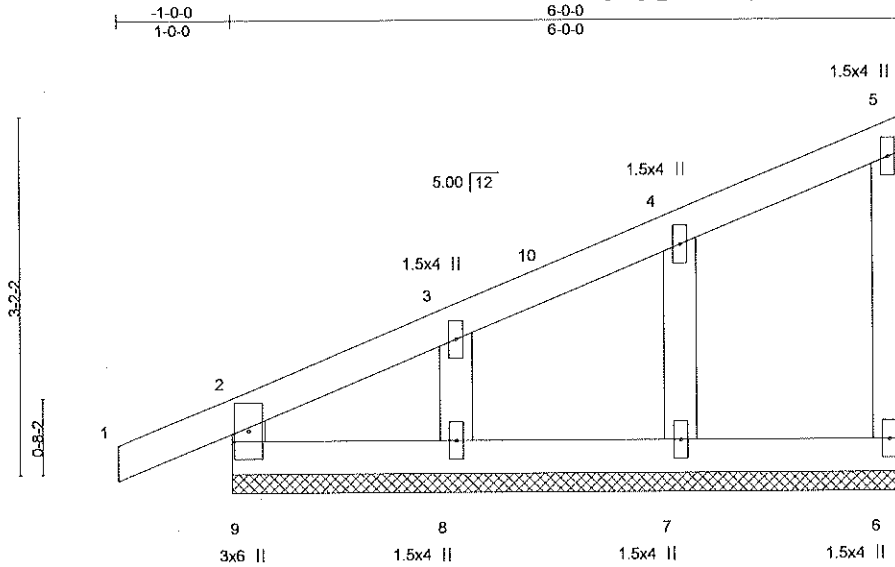
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.



Job 33644-33644A	Truss M1E	Truss Type MONOPITCH SUPPORTED	Qty 1	Ply 1	Job Reference (optional) 154603327
---------------------	--------------	-----------------------------------	----------	----------	---------------------------------------

B4 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:13 2022 Page 1  
 ID:is6TgJ7xgi0\_J9veexFt8ywRii-VXm9QaxNSZUgYHTIRNhl7bBIAx7eeG3ekvliC7yVtHa  
 6-0-0  
 6-0-0



Scale = 1:19.7

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	<b>l/defl</b>	<b>L/d</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL) 0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R				Weight: 29 lb	FT = 20%

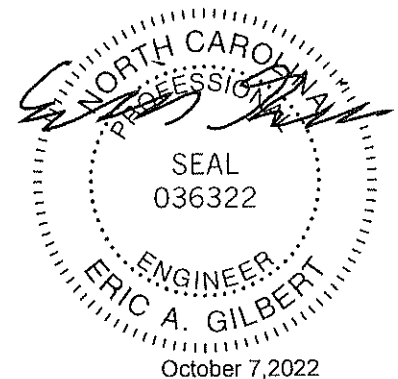
**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 6-0-0.  
 (lb) - Max Horz 9=97(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 9, 6, 7, 8  
 Max Grav All reactions 250 lb or less at joint(s) 9, 6, 7, 8

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 5-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) Gable requires continuous bottom chord bearing.
  - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 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) 9, 6, 7, 8.

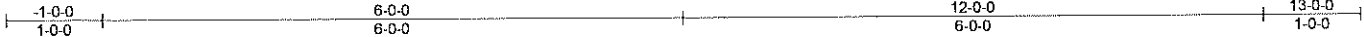


<p><b>WARNING</b> - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.          Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 ANSITPI® Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crein Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY  <b>TRENCO</b>  <small>A MiTek Alliance</small></p> <p>818 Soundside Road          Edenton, NC 27932</p>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------

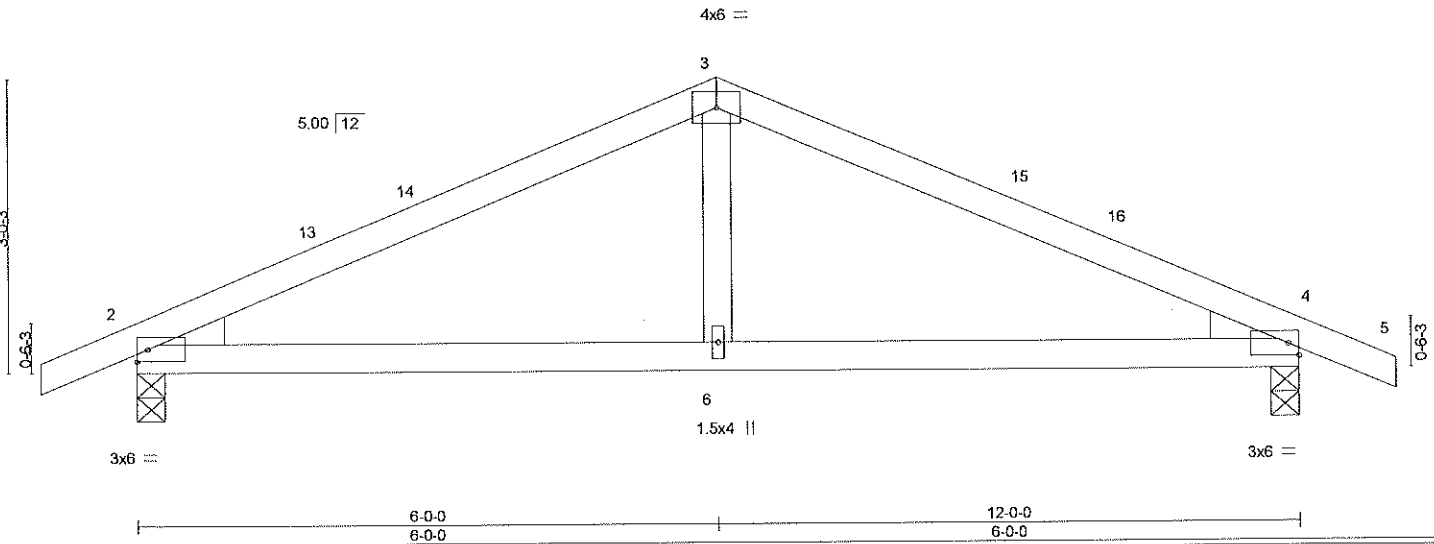
Job 33644-33644A	Truss P1	Truss Type COMMON	Qty 3	Ply 1	154603328
---------------------	-------------	----------------------	----------	----------	-----------

B4 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:14 2022 Page 1  
ID:is6TgJ7xgi0\_J9veoxFt8ywRii-zjXewy?DsdXAR2r\_5CXgpj\_2wGvNj?oyZ1GkRyVtHZ



Scale = 1:22.8



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 0.44	Vert(LL) -0.03 6-9 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.06 6-9 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.01 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 46 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.2  
 WEDGE  
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

**BRACING-**

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

**REACTIONS.**

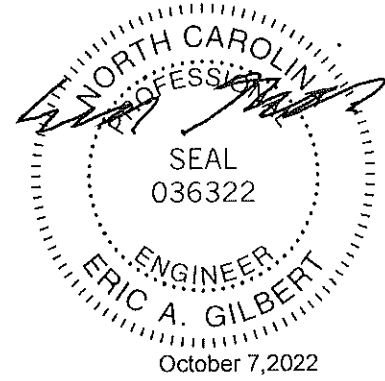
(size) 2=0-3-8, 4=0-3-8  
 Max Horz 2=-38(LC 13)  
 Max Uplift 2=-28(LC 12), 4=-28(LC 13)  
 Max Grav 2=540(LC 1), 4=540(LC 1)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-710/69, 3-4=-710/69  
 BOT CHORD 2-6=0/592, 4-6=0/592  
 WEBS 3-6=0/261

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-0-0, Exterior(2) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 13-0-0 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
- 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) 2, 4.

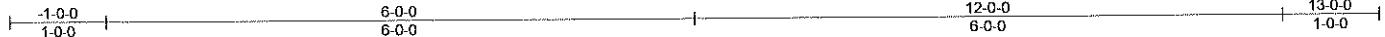


<p><b>WARNING</b> - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY  <b>TRENCO</b>  <small>A MiTek Affiliate</small>        818 Soundside Road        Edenonton, NC 27632</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------

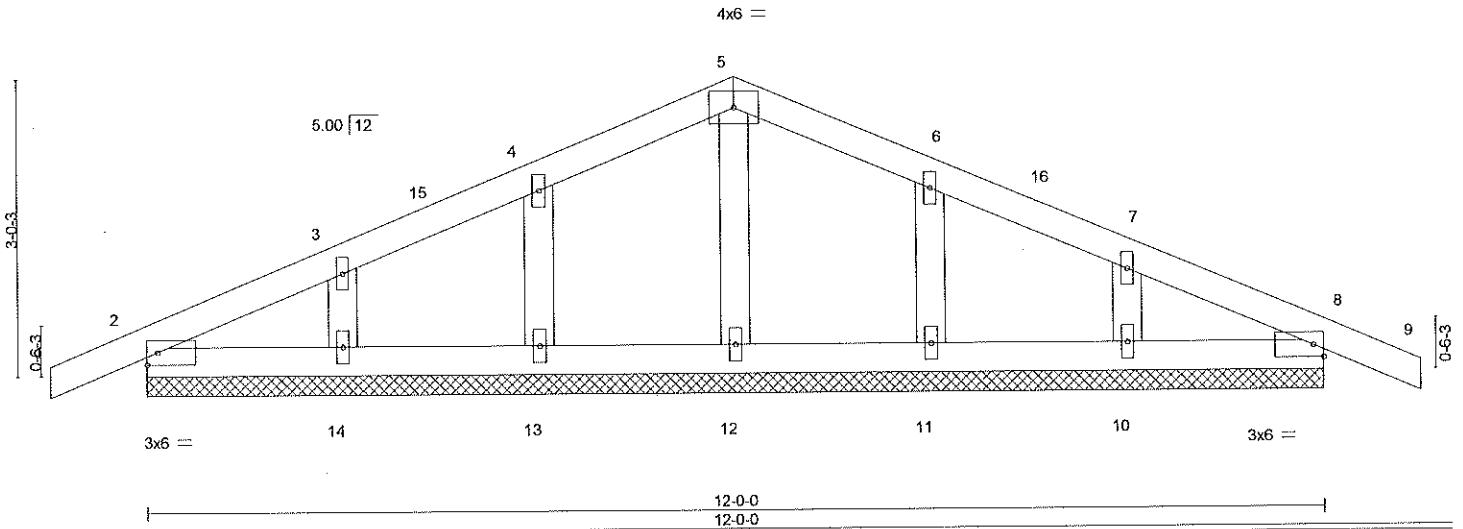
Job 33644-33644A	Truss P1E	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	1	154603329
---------------------	--------------	------------------------------------	----------	----------	---	-----------

84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:15 2022 Page 1  
ID:is6TgJ7xgi0\_J9veeoxF18ywwRii-RwtvrGzd\_AlOnbd2YojmCOGEfKhP6AexBDnpGuyVIHY



Scale = 1:22.5



<b>LOADING (psf)</b>	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL) -0.00	9	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT) -0.00	9	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT) 0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 52 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

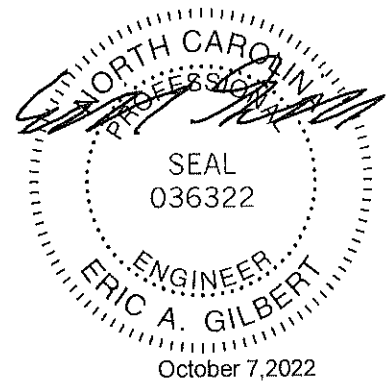
**REACTIONS.**

All bearings 12-0-0.  
(lb) - Max Horz 2=-38(LC 13)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10  
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

**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 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 6-0-0, Corner(3) 6-0-0 to 9-0-0, Exterior(2) 9-0-0 to 13-0-0 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
- 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.
- 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) 2, 8, 13, 14, 11, 10.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



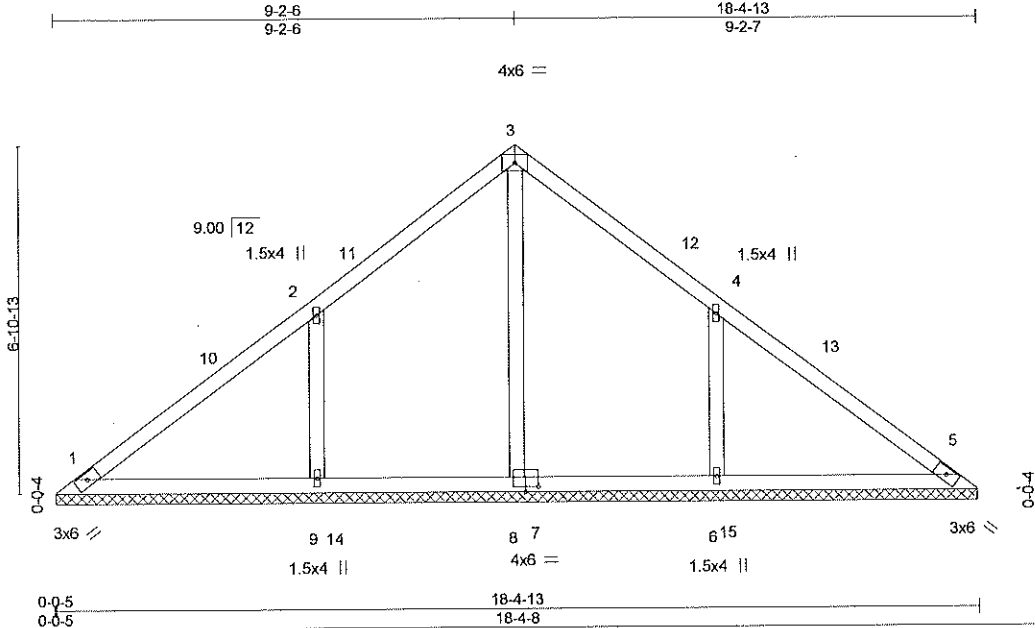
<p><b>WARNING -</b> Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY <b>TRENCO</b> A MI TEK AFFILIATE</p> <p>818 Soundside Road Edenton, NC 27932</p>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------



Job 33644-33644A	Truss V1	Truss Type VALLEY	Qty 1	Ply 1	Job Reference (optional)	154603330
---------------------	-------------	----------------------	----------	----------	--------------------------	-----------

84 Components (Dunn), Dunn, NC - 28334,

8,620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:16 2022 Page 1  
ID:is6TgJ7xgi0\_J9veeoxF8ywrRii-v6RH2bzFIUIEPkCE6WE?IEpMik?Irch4QsWNpKyVIHX



Scale = 1:44.0

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

<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>2-0-0</b>	<b>CSI</b>	<b>DEFL.</b>	<b>in (loc)</b>	<b>l/defl</b>	<b>L/d</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	n/a	-	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	n/a	-	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 79 lb	FT = 20%

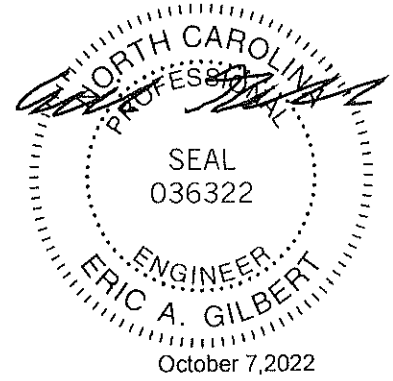
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3 \*Except\*  
3-8: 2x4 SP No.2

**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 18-4-2.  
(b) - Max Horz 1=-127(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) except 9=-127(LC 12), 6=-127(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=345(LC 22), 9=485(LC 19), 6=485(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-9=-326/180, 4-6=-326/180

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 9-2-6, Exterior(2) 9-2-6 to 12-2-6, Interior(1) 12-2-6 to 17-11-9 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 BCCL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 9 and 127 lb uplift at joint 6.
  - N/A

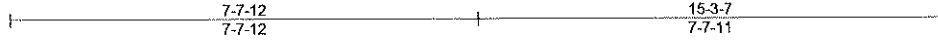


Job 33644-33644A	Truss V2	Truss Type VALLEY	Qty 1	Ply 1	I54603331
---------------------	-------------	----------------------	----------	----------	-----------

Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:17 2022 Page 1  
ID:is6TgJ7xgiD\_J9veeoxFf8ywrRii-Oi7fGx\_IVn751unQgDIEIRLZEBMea3BEeWGwLmyVIHW



4x6 =

Scale = 1:36.1

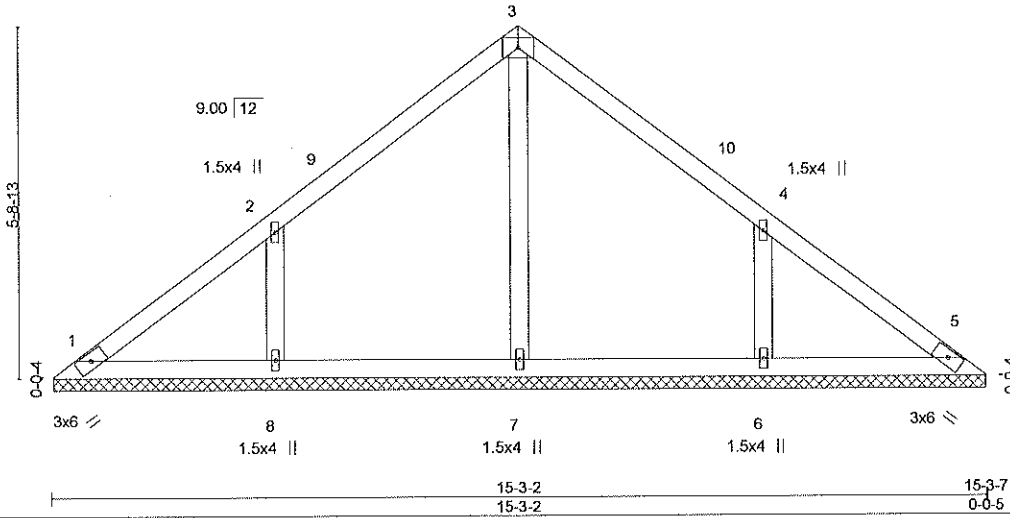


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	5	n/a	Weight: 64 lb	FT = 20%
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

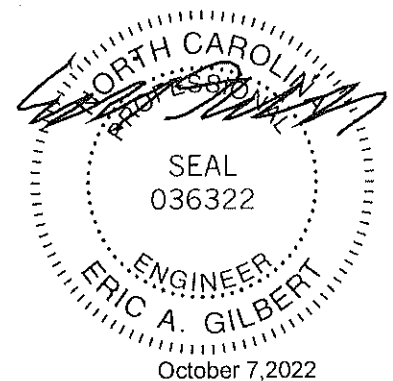
All bearings 15-2-13.  
(lb) - Max Horz 1=-105(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-105(LC 12), 6=-104(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=350(LC 19), 6=350(LC 20)

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

**WEBS** 2-8=-266/148, 4-6=-266/148

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 3-7-12, Interior(1) 3-7-12 to 7-7-12, Exterior(2) 7-7-12 to 10-7-12, Interior(1) 10-7-12 to 14-10-3 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
- Gable requires continuous bottom chord bearing.
- 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) 1 except (jt=lb) 8=105, 6=104.



**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 ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY  
**TRENCO**  
A MITEK AFFILIATE  
818 Soundside Road  
Edenton, NC 27932

Job 33644-33644A	Truss V3	Truss Type VALLEY	Qty 1	Ply 1	1	154603332
---------------------	-------------	----------------------	----------	----------	---	-----------

84 Components (Dunn), Dunn, NC - 28334, 8,620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:18 2022 Page 1  
 ID:is6TgJ7xgi0\_J9veoxF18ywrRii-sVZ2TH?VG57ye2MdDxHTqfuj7YihJXwNIA7TICyVIHV

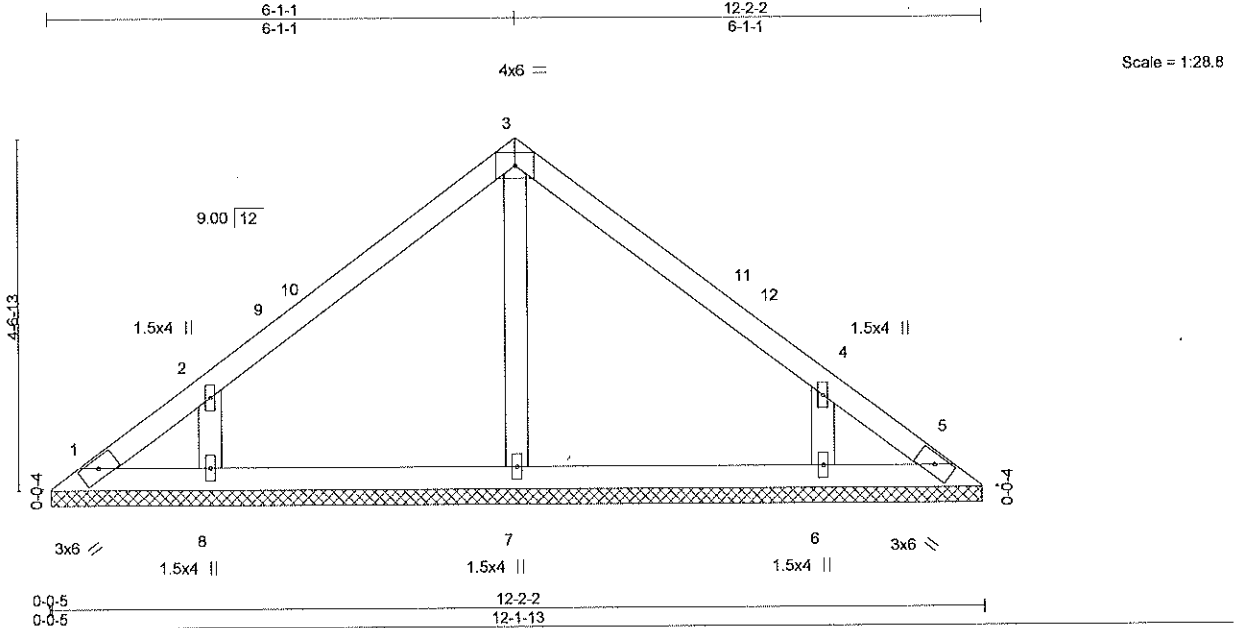


Plate Offsets (X,Y)--	[4:0-0-0,0-0-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress incr	YES	WB 0.06	Horz(CT)	0.00	5	n/a	Weight: 48 lb	FT = 20%
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						

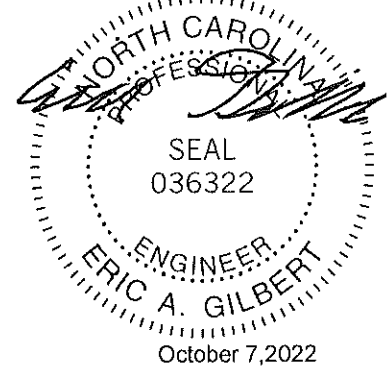
**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 12-1-7.  
 (lb) - Max Horz 1=82(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=256(LC 1), 8=302(LC 19), 6=301(LC 20)

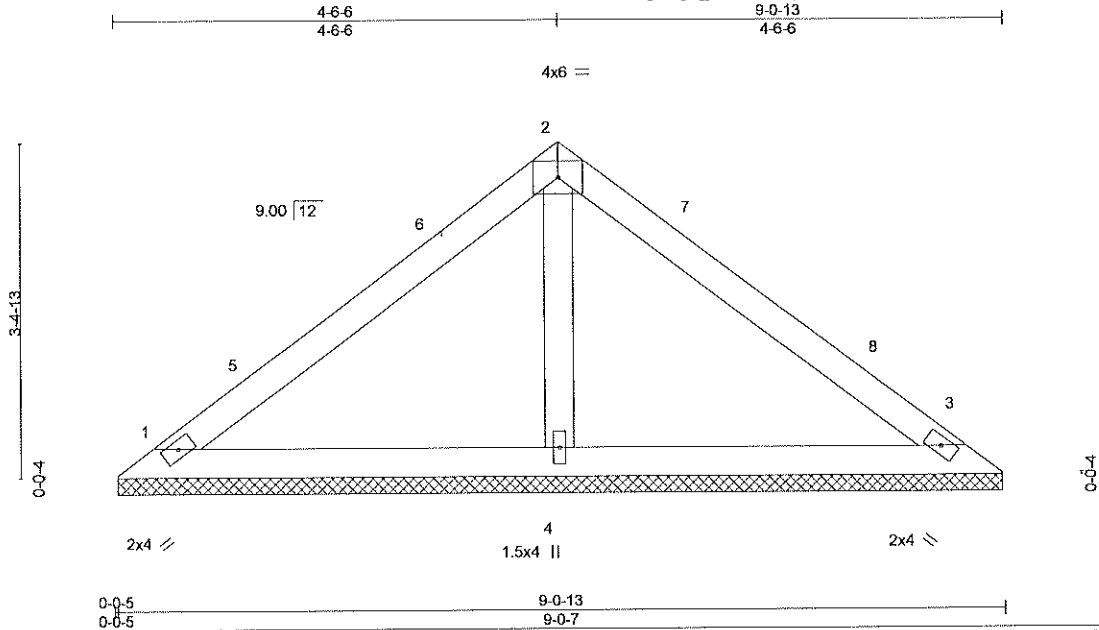
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 6-1-1, Exterior(2) 6-1-1 to 9-1-1, Interior(1) 9-1-1 to 11-8-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.



Job 33644-33644A	Truss V4	Truss Type Valley	Qty 1	Ply 1	I54603333
---------------------	-------------	----------------------	----------	----------	-----------

84 Components (Dunn), Dunn, NC - 28334, 8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:19 2022 Page 1  
 ID:is6TgJ7xgi0\_J9veeoxF18ywRii-Kh7Qhd071PFpGCxpneoIiNsRqWw0B2\_NX6q11PfyVIHU



Scale = 1:22.5

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 33 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

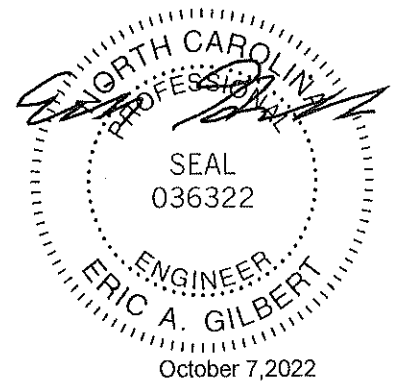
**REACTIONS.**

(size) 1=9-0-2, 3=9-0-2, 4=9-0-2  
 Max Horz 1=-59(LC 8)  
 Max Uplift 1=-12(LC 12), 3=-20(LC 13)  
 Max Grav 1=166(LC 1), 3=166(LC 1), 4=323(LC 1)

**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 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 4-6-6, Exterior(2) 4-6-6 to 7-6-6, Interior(1) 7-6-6 to 8-7-9 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
- Gable requires continuous bottom chord bearing.
- 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) 1, 3.

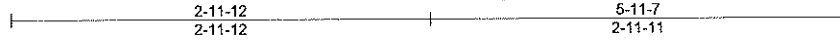


<p><b>WARNING -</b> Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.          Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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</p>	<p>ENGINEERING BY  <b>TRENCO</b>  <small>A MiTek Affiliate</small></p> <p>818 Soundside Road          Edenton, NC 27932</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------

Job 33644-33644A	Truss V5	Truss Type VALLEY	Qty 1	Ply 1	I54603334
---------------------	-------------	----------------------	----------	----------	-----------

B4 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MITek Industries, Inc. Fri Oct 7 07:29:20 2022 Page 1  
ID:is6TgJ7xgi0\_J9veeoxF18ywRii-othouz0moiNguMW?LMJxv4z2KLGnROgLUUJay5yVtHT



3x6 =

Scale = 1:15.7

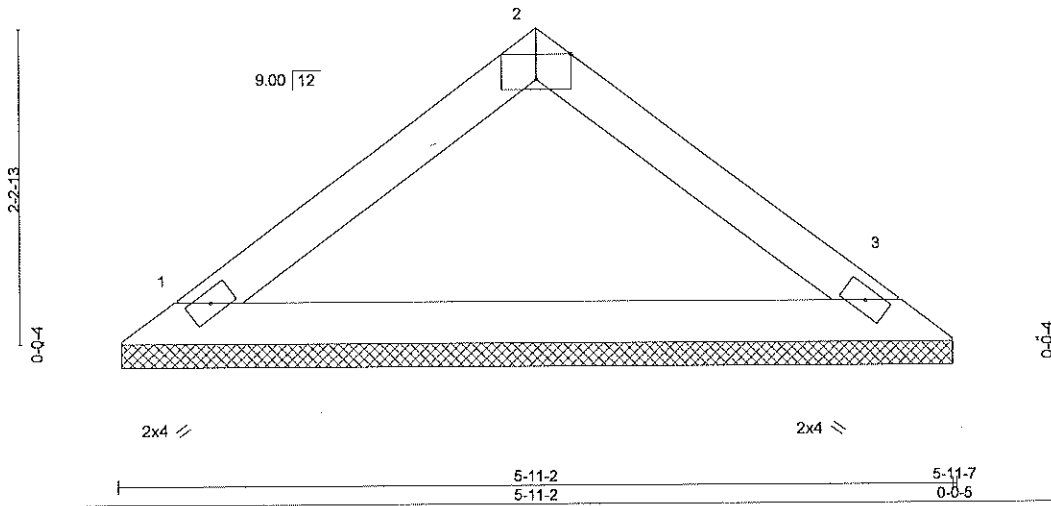


Plate Offsets (X,Y)-- [2:0-3:0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 18 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-11-7 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

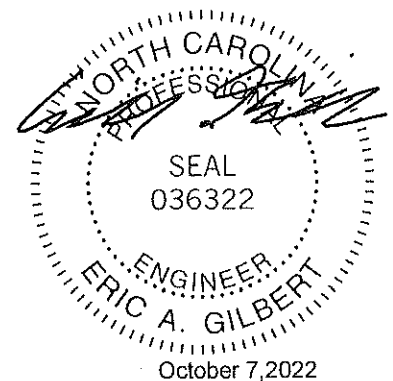
**REACTIONS.**

(size) 1=5-10-13, 3=5-10-13  
Max Horz 1=-37(LC 8)  
Max Uplift 1=-3(LC 12), 3=-3(LC 13)  
Max Grav 1=203(LC 1), 3=203(LC 1)

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

**NOTES-**

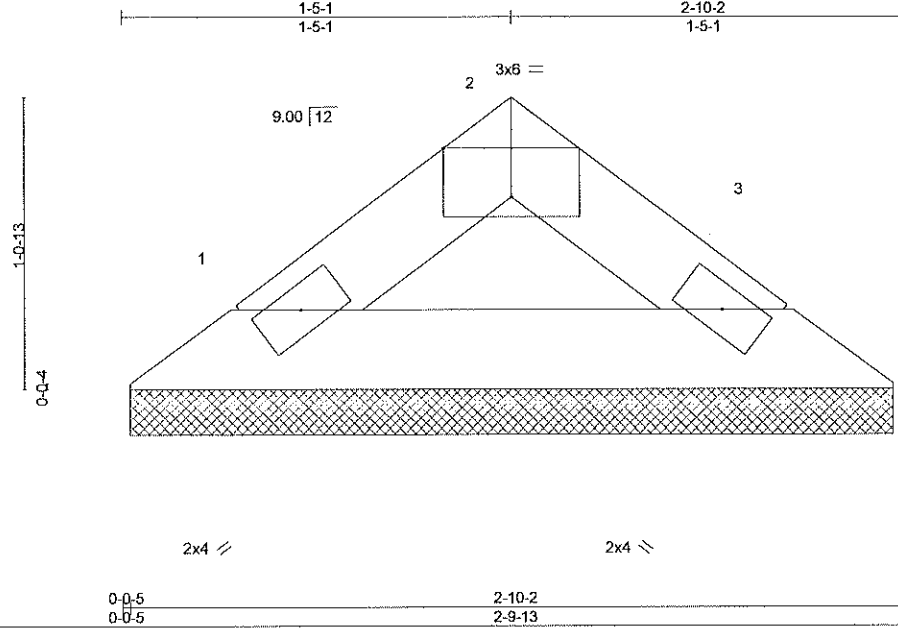
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



<p><b>WARNING</b> - 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</p>	<p>ENGINEERING BY <b>TRENCO</b> A LULU-ATHLETE</p> <p>818 Soundside Road Edenton, NC 27932</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------

Job 33644-33644A	Truss V6	Truss Type Valley	Qty 1	Ply 1	154603335
---------------------	-------------	----------------------	----------	----------	-----------

84 Components (Dunn), Dunn, NC - 28334, 8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:20 2022 Page 1  
 ID:is6TgJ7xgi0\_J9veoxF18ywRii-othouz0moiNguMW7LMJxv4z50LNvnROgLUUay5yVHT



Scale = 1:8.1

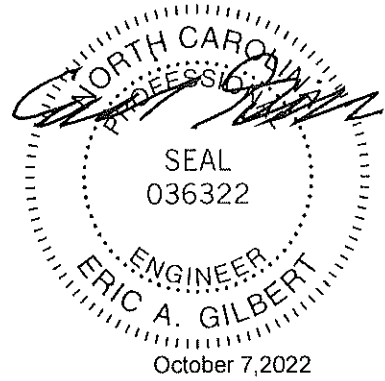
LOADING (psf)		SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL	20.0	2-0-0	Plate Grip DOL	1.15	TC	0.03	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	1.15	Lumber DOL	1.15	BC	0.07	n/a	-	n/a	999		
BCLL	0.0 *	YES	Rep Stress Incr	YES	WB	0.00	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TP12014		Matrix-P						Weight: 8 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.3	TOP CHORD	Structural wood sheathing directly applied or 2-10-2 oc purlins.
BOT CHORD	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=2-9-7, 3=2-9-7  
 Max Horz 1=14(LC 10)  
 Max Uplift 1=1(LC 12), 3=1(LC 13)  
 Max Grav 1=79(LC 1), 3=79(LC 1)

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

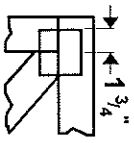
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vull=115mph Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



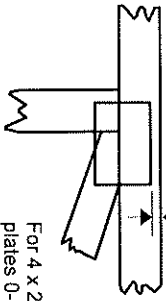
<p><b>WARNING -</b> Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.          Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY  <b>TRENCO</b>  <small>A MI TEK AFFILIATE</small></p> <p>818 Soundside Road          Edenport, NC 27932</p>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------

# 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- $\frac{1}{16}$ " 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

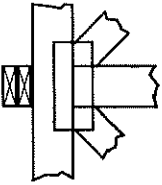
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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:

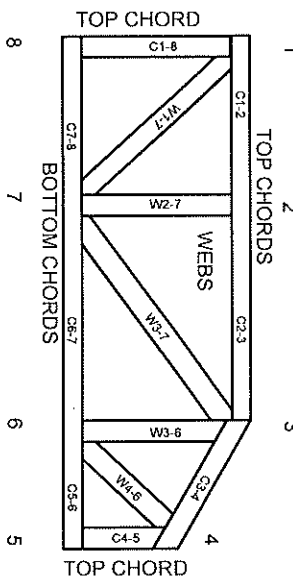
ANSI/ITP1: National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate

BCSI: Connected Wood Trusses.

# Numbering System

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



JOINTS ARE GENERALLY NUMBERED/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.

© 2012 MITek® All Rights Reserved



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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
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 purflins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.