

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128453
PERMIT	A01	COMMON	5	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

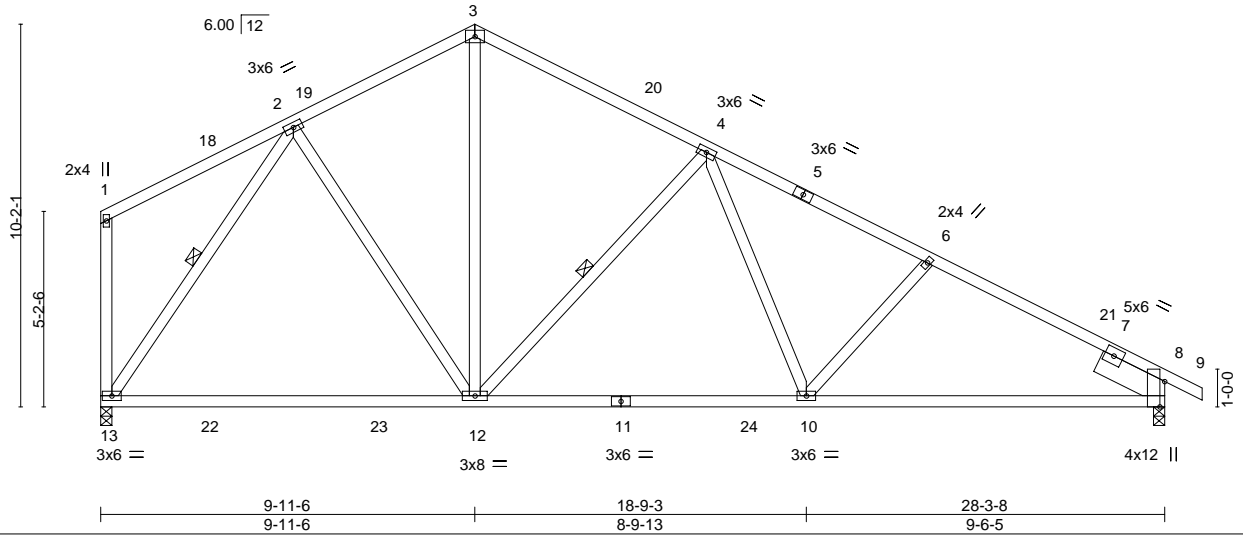
8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:19:49 2022 Page 1

ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-bsORLX00TD2yECn6akPJr4f70aR13Zm?4tB?jbyLaEu



4x6 =

Scale = 1:61.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.79	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.87	Vert(LL) -0.30 12-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.47	Vert(CT) -0.53 12-13 >639 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.08 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 10-12 >999 240	Weight: 175 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 5-9: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-8-6 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 11-13: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-13, 4-12
SLIDER Right 2x8 SP DSS 1-11-12	

**REACTIONS.** (size) 13=0-3-8, 8=0-3-8  
 Max Horz 13=204(LC 10)  
 Max Grav 13=1141(LC 2), 8=1187(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-918/135, 3-4=-938/143, 4-6=-1488/104, 6-8=-1685/95  
 BOT CHORD 12-13=0/670, 10-12=0/1171, 8-10=0/1424  
 WEBS 2-13=-1081/101, 2-12=0/332, 3-12=-29/526, 4-12=-628/106, 4-10=0/395

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-11-6, Exterior(2) 9-11-6 to 14-2-5, Interior(1) 14-2-5 to 29-3-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



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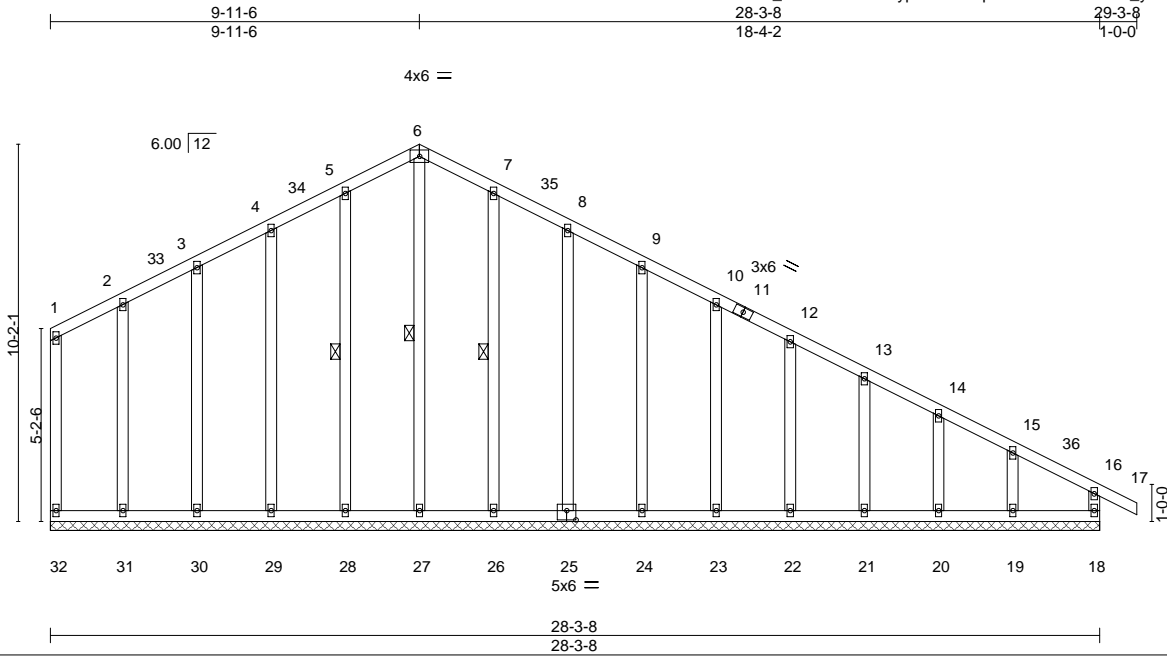
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128454
PERMIT	A01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:19:50 2022 Page 1  
 ID:k9haJc8HLGnwac5Cl\_Kow4znDcS-32ypYt1eEXApsMMJ8SwYOIBR5\_yPo589JXwZG1yLaEt



Scale = 1:62.1

Plate Offsets (X,Y)--	[25:0-3-0,0-3-0]				
<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 0.25	Vert(LL) -0.00 17 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) -0.00 17 n/r 120		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.14	Horz(CT) 0.01 18 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R			
				Weight: 217 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.3	WEBS 1 Row at midpt 6-27, 5-28, 7-26
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 28-3-8.  
 (lb) - Max Horz 32=-210(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 32, 18, 28, 29, 30, 31, 26, 25, 24, 23, 22, 21, 20 except 19=-120(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 32, 18, 27, 28, 29, 30, 31, 26, 25, 24, 23, 22, 21, 20, 19

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 5-6=-130/266, 6-7=-130/276

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 9-11-6, Corner(3) 9-11-6 to 12-11-6, Exterior(2) 12-11-6 to 29-3-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
  - 7) Gable studs spaced at 2-0-0 oc.
  - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 18, 28, 29, 30, 31, 26, 25, 24, 23, 22, 21, 20 except (jt=19) 19=120.

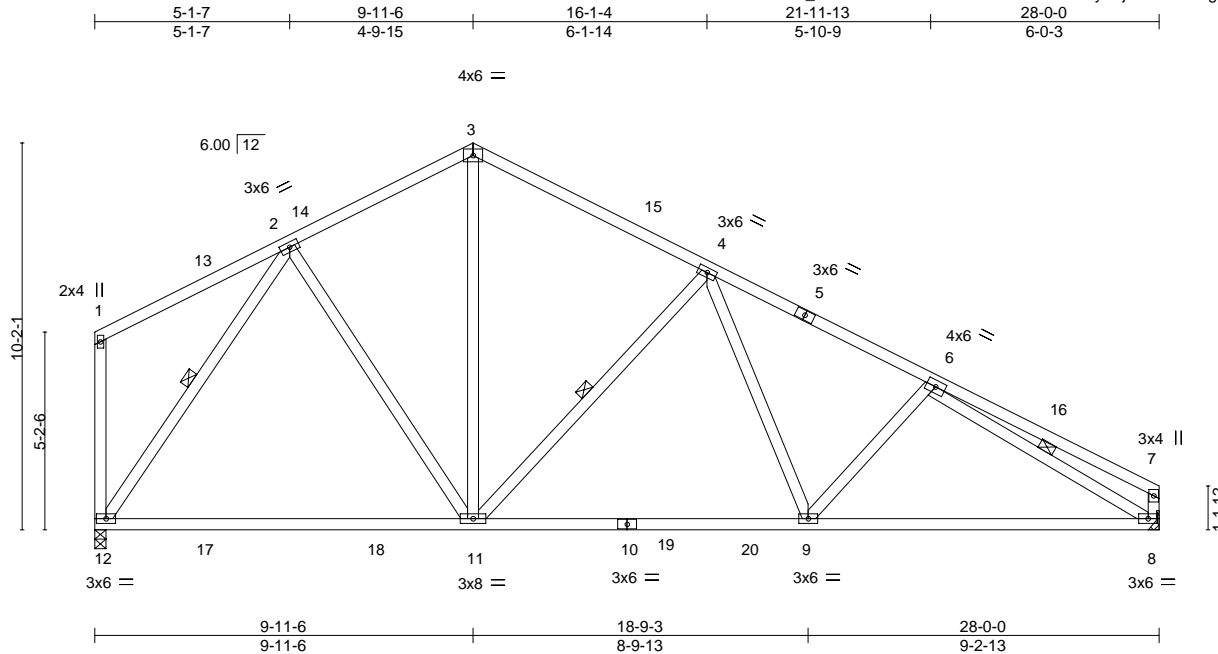


Job PERMIT	Truss A02	Truss Type COMMON	Qty 6	Ply 1	MATTAMY HOMES/TETON Job Reference (optional)	155128455
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:19:52 2022 Page 1

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Scale = 1:60.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.63	Vert(LL)	-0.34 11-12	>991	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.59 11-12	>562	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.05 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.03 9-11	>999	240		
								Weight: 177 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-6-13 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.  
 WEBS 1 Row at midpt 2-12, 4-11, 6-8

**REACTIONS.** (size) 12=0-3-8, 8=Mechanical  
 Max Horz 12=-201(LC 8)  
 Max Grav 12=1130(LC 2), 8=1108(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-904/137, 3-4=-922/144, 4-6=-1475/109, 6-7=-308/50, 7-8=-267/68  
 BOT CHORD 11-12=0/661, 9-11=0/1133, 8-9=-46/1357  
 WEBS 2-12=-1057/102, 2-11=0/325, 3-11=-30/507, 4-11=-600/104, 4-9=0/387, 6-8=-1373/55

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-11-6, Exterior(2) 9-11-6 to 14-2-5, Interior(1) 14-2-5 to 27-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.



November 7, 2022

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

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



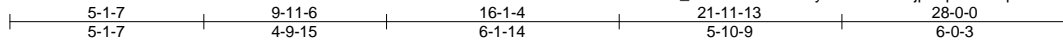
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128456
PERMIT	A03	COMMON	1	1	Job Reference (optional)	

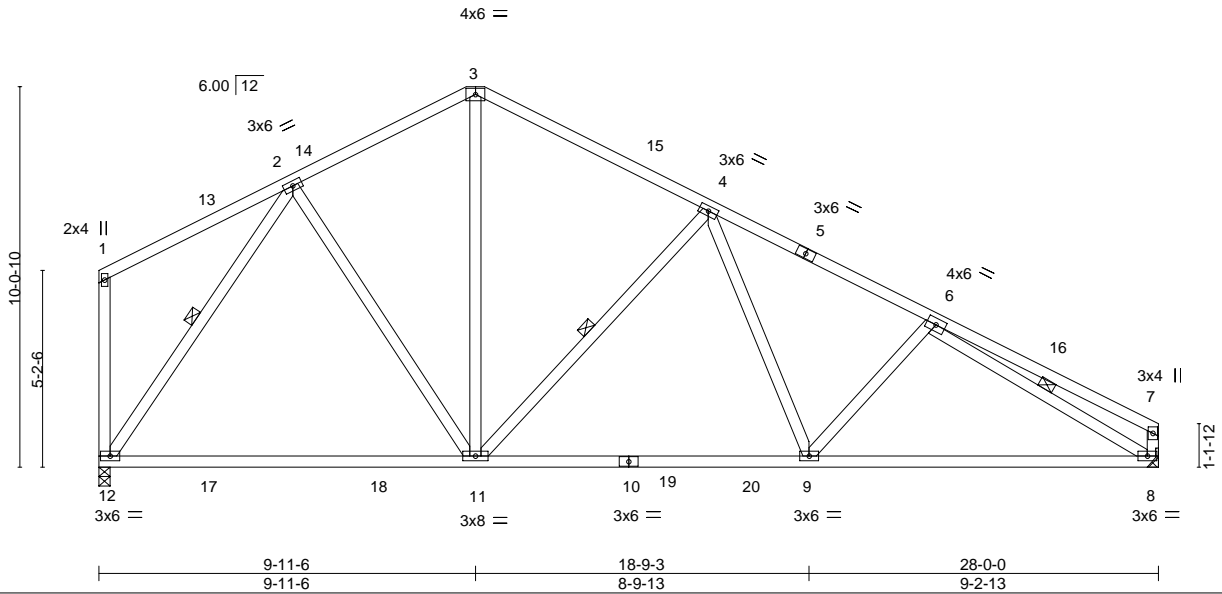
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:19:53 2022 Page 1

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Scale = 1:60.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	Vert(LL)	-0.34 11-12	>991	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 1.00	Vert(CT)	-0.59 11-12	>562	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.46	Horz(CT)	0.05 8	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Wind(LL)	0.03 9-11	>999	240		
	Code IRC2015/TPI2014						Weight: 177 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-6-13 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.  
 WEBS 1 Row at midpt 2-12, 4-11, 6-8

**REACTIONS.** (size) 12=0-3-8, 8=Mechanical  
 Max Horz 12=-201(LC 8)  
 Max Grav 12=1130(LC 2), 8=1108(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-903/136, 3-4=-923/143, 4-6=-1475/109, 6-7=-308/50, 7-8=-267/68  
 BOT CHORD 11-12=0/661, 9-11=0/1133, 8-9=-46/1357  
 WEBS 2-12=-1057/102, 2-11=0/332, 3-11=-27/495, 4-11=-594/103, 4-9=0/387, 6-8=-1373/55

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-11-6, Exterior(2) 9-11-6 to 14-2-5, Interior(1) 14-2-5 to 27-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.



November 7, 2022

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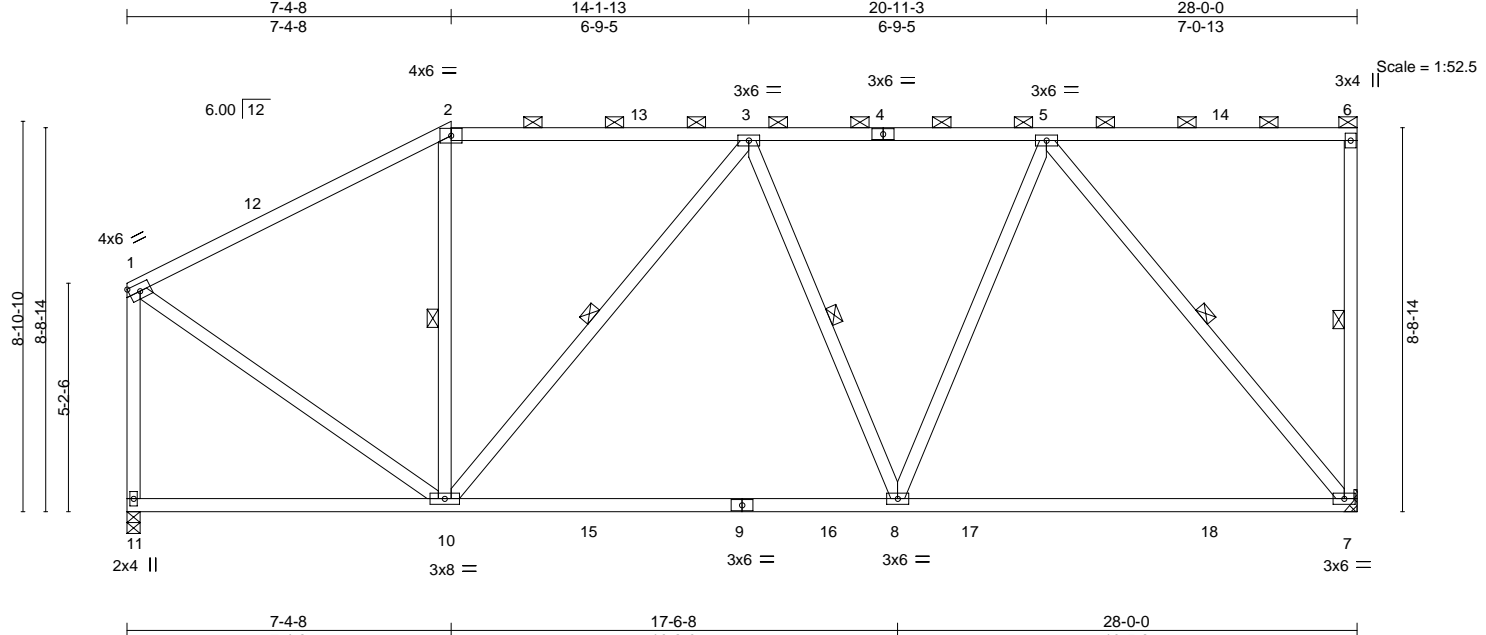


818 Soundside Road  
 Edenton, NC 27932

Job PERMIT	Truss A04	Truss Type MONO HIP	Qty 1	Ply 1	MATTAMY HOMES/TETON	155128457
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:19:54 2022 Page 1

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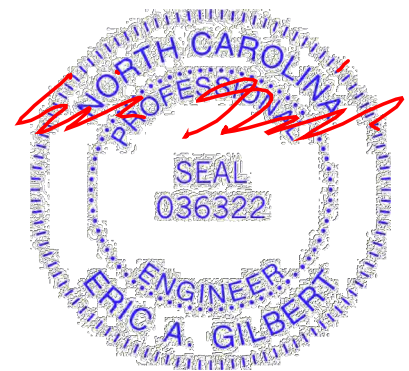
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.33 7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.58 7-8	>570	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.03 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	-0.05 7-8	>999	240	Weight: 186 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-3 max.): 2-6.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 6-7: 2x4 SP No.2	WEBS 1 Row at midpt 6-7, 2-10, 3-10, 3-8, 5-7

**REACTIONS.** (size) 11=0-3-8, 7=Mechanical  
 Max Horz 11=252(LC 9)  
 Max Uplift 7=-122(LC 9)  
 Max Grav 11=1108(LC 1), 7=1175(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-11=-1051/107, 1-2=-909/77, 2-3=-749/111, 3-5=-957/107  
 BOT CHORD 10-11=-293/256, 8-10=-197/982, 7-8=-151/748  
 WEBS 1-10=-32/885, 3-10=-418/114, 5-8=0/559, 5-7=-1150/157

- 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=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-4-8, Exterior(2) 7-4-8 to 11-7-7, Interior(1) 11-7-7 to 27-10-4 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
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 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) except (jt=lb) 7=122.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

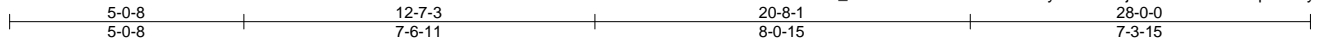


Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128458
PERMIT	A05	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523,

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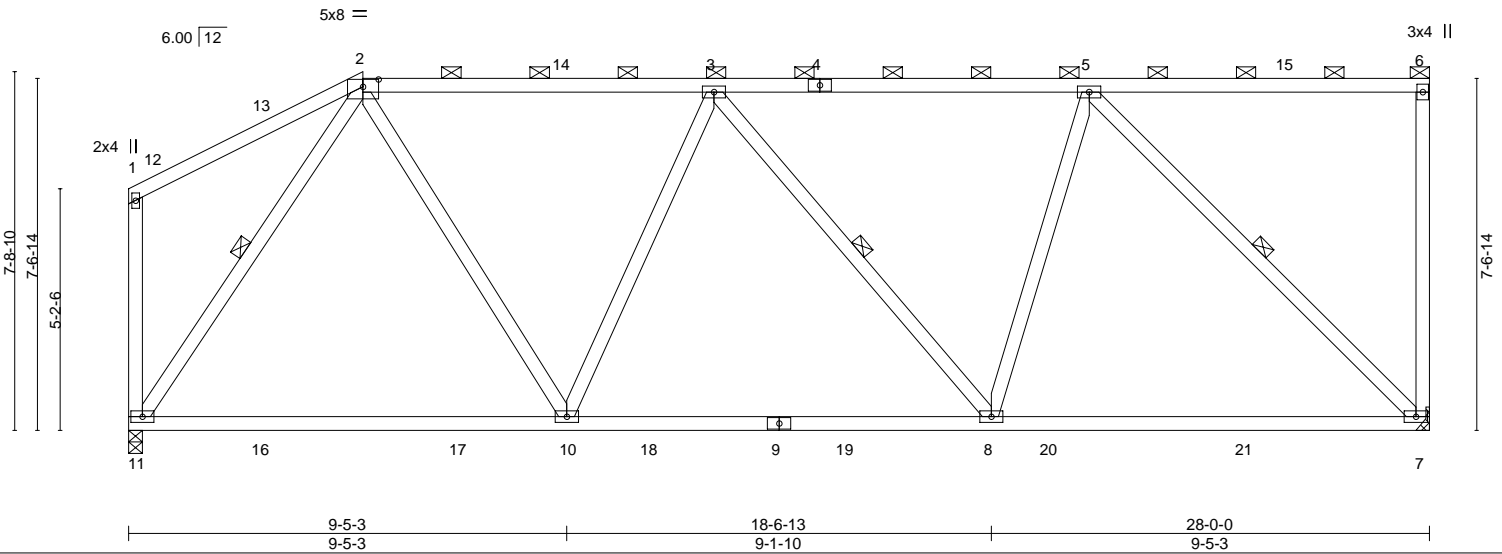


Plate Offsets (X,Y)--	[2:0-4-0,0-1-15]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 20.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.26 10-11 >999 360	MT20	244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -0.47 10-11 >712 240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.04 7 n/a n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.04 8-10 >999 240			Weight: 177 lb FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-2 max.): 2-6.  
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
 WEBS 1 Row at midpt 2-11, 3-8, 5-7

**REACTIONS.** (size) 11=0-3-8, 7=Mechanical  
 Max Horz 11=215(LC 11)  
 Max Uplift 11=-14(LC 8), 7=-118(LC 9)  
 Max Grav 11=1169(LC 2), 7=1151(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1019/80, 3-5=-1032/97  
 BOT CHORD 10-11=-225/638, 8-10=-201/1143, 7-8=-154/894  
 WEBS 2-11=-1095/111, 2-10=-19/759, 3-10=-401/148, 5-8=0/496, 5-7=-1244/157

- 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=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-0-8, Exterior(2) 5-0-8 to 9-3-7, Interior(1) 9-3-7 to 27-10-4 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
  - Provide adequate drainage to prevent water ponding.
  - All plates are 3x6 MT20 unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 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) 11 except (jt=lb) 7=118.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 7, 2022

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128459
PERMIT	A06	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:19:56 2022 Page 1

ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-uCJ4pw6PqNwzaHpTUI1ydZRlgPpOCc11hTNtThyLaEn



Scale = 1:49.6

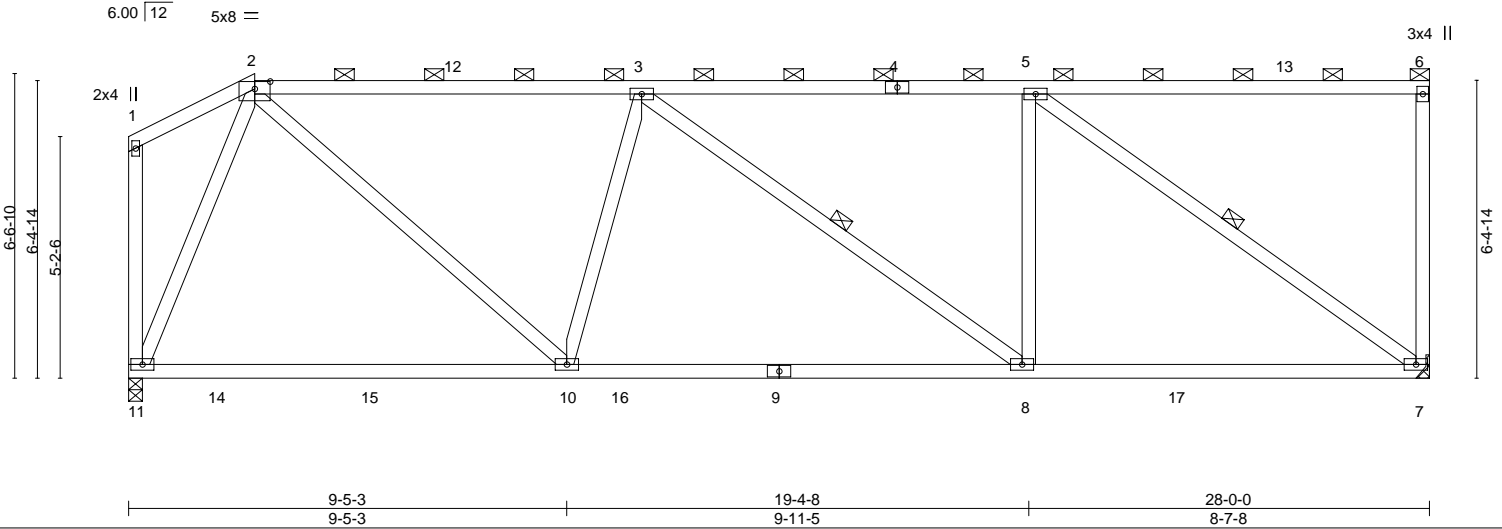
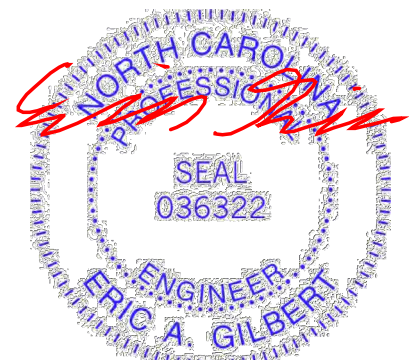


Plate Offsets (X,Y)--	[2:0-4-0,0-1-15]				
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>
TCLL 20.0	Plate Grip DOL 1.15		TC 0.95	in (loc) l/defl L/d	MT20 244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.96	Vert(LL) -0.18 10-11 >999 360	
BCLL 0.0 *	Rep Stress Incr YES		WB 0.95	Vert(CT) -0.37 10-11 >898 240	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Horz(CT) 0.04 7 n/a n/a	
				Wind(LL) 0.05 8-10 >999 240	Weight: 170 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, and 2-0-0 oc purlins (2-2-0 max.): 2-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-8, 5-7
<b>REACTIONS.</b>	
(size) 11=0-3-8, 7=Mechanical	
Max Horz 11=179(LC 9)	
Max Uplift 11=-56(LC 8), 7=-113(LC 9)	
Max Grav 11=1138(LC 2), 7=1108(LC 1)	

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1189/97, 3-5=-1179/121
BOT CHORD	10-11=-191/427, 8-10=-207/1284, 7-8=-160/1179
WEBS	2-11=-1082/160, 2-10=-60/1041, 3-10=-473/173, 5-8=0/437, 5-7=-1421/146

- 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=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 6-11-7, Interior(1) 6-11-7 to 27-10-4 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
  - Provide adequate drainage to prevent water ponding.
  - All plates are 3x6 MT20 unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 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) 11 except (jt=lb) 7=113.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



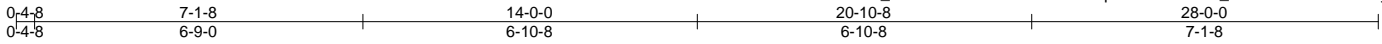
November 7, 2022

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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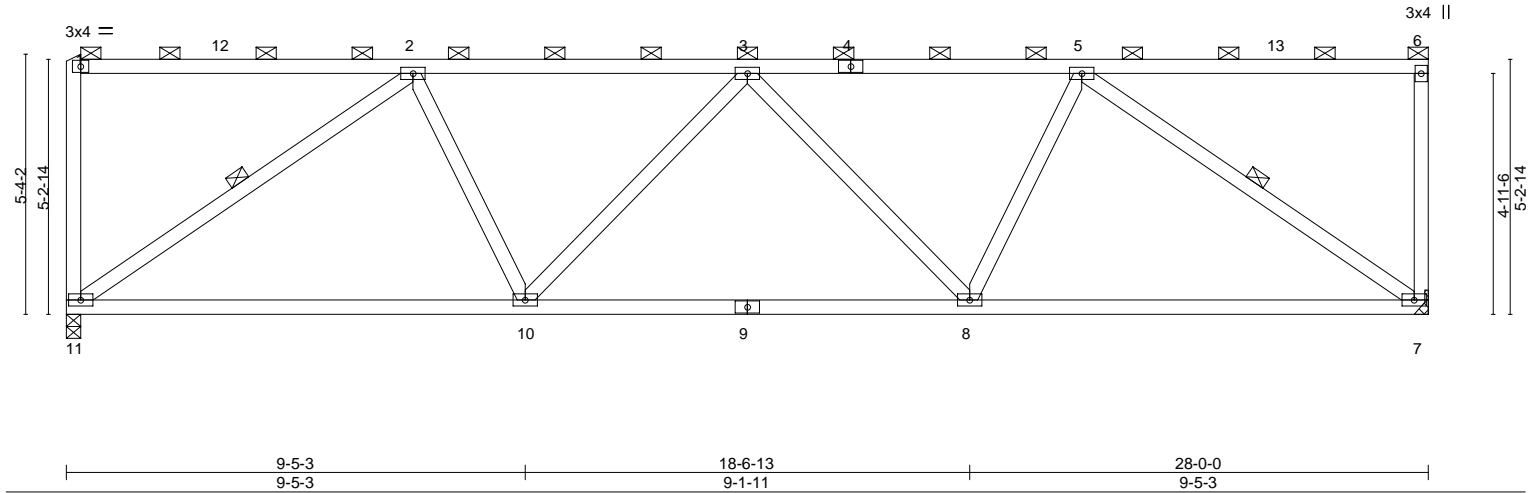
Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128460
PERMIT	A07	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:19:57 2022 Page 1

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Scale = 1:47.4



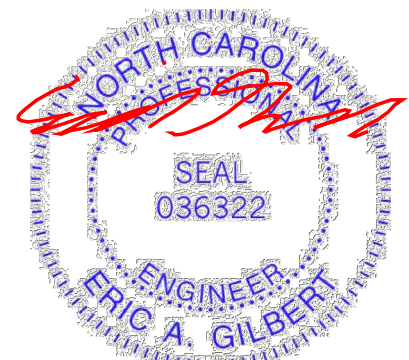
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.87	Vert(LL) -0.20 7-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.60	Vert(CT) -0.42 7-8 >795 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 7 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.06 8-10 >999 240	Weight: 157 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (4-4-9 max.): 1-6, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-11, 5-7

**REACTIONS.** (size) 11=0-3-8, 7=Mechanical  
 Max Horz 11=-143(LC 8)  
 Max Uplift 11=-107(LC 8), 7=-107(LC 9)  
 Max Grav 11=1108(LC 1), 7=1108(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1401/111, 3-5=-1401/111  
 BOT CHORD 10-11=-205/1219, 8-10=-218/1582, 7-8=-171/1219  
 WEBS 2-11=-1458/174, 2-10=0/504, 3-10=-266/108, 3-8=-266/108, 5-8=0/504, 5-7=-1458/173

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 27-10-4 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) Provide adequate drainage to prevent water ponding.
  - 3) All plates are 3x6 MT20 unless otherwise indicated.
  - 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) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=107, 7=107.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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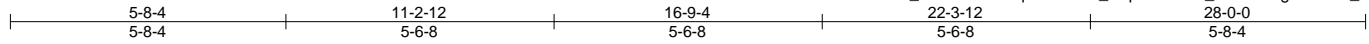


Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128461
PERMIT	A08-2PL	SPECIAL	1	2	Job Reference (optional)	

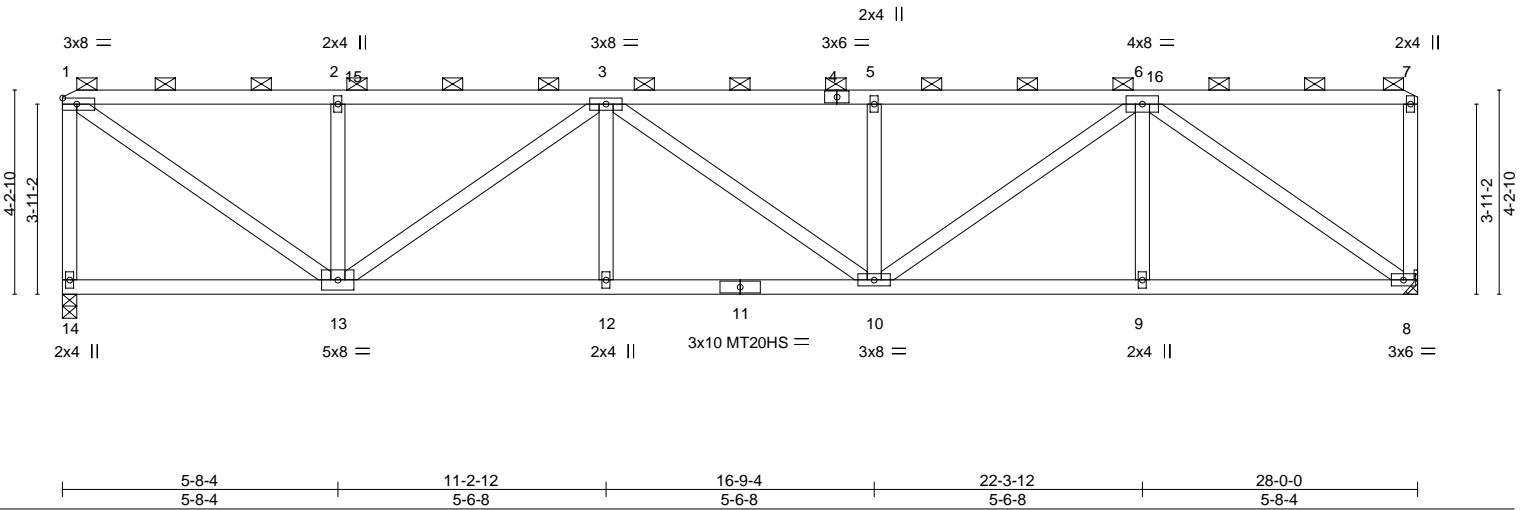
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:19:58 2022 Page 1

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Scale: 1/4"=1'



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 0.52	Vert(LL)	-0.13 10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.26 10-12	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.69	Horz(CT)	0.07 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.10 10-12	>999	240		
								Weight: 326 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD 2-0-0 oc purlins (5-3-5 max.): 1-7, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 14=0-3-8, 8=Mechanical  
 Max Horz 14=-113(LC 4)  
 Max Uplift 14=-245(LC 4), 8=-245(LC 5)  
 Max Grav 14=2785(LC 1), 8=2785(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-14=-2610/261, 1-2=-3283/300, 2-3=-3283/300, 3-5=-4830/420, 5-6=-4830/420,  
 7-8=-321/61  
 BOT CHORD 12-13=-470/4831, 10-12=-470/4831, 9-10=-315/3285, 8-9=-315/3285  
 WEBS 1-13=-350/3956, 2-13=-786/151, 3-13=-1898/176, 3-12=0/418, 5-10=-717/136,  
 6-10=-175/1894, 6-9=0/455, 6-8=-3960/351

**NOTES-**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) except (jt=lb) 14=245, 8=245.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-7=-132(F=-72), 8-14=-69(F=-49)



November 7, 2022

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

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



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 Edenton, NC 27932

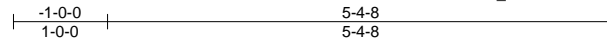
Job PERMIT	Truss B01	Truss Type JACK	Qty 13	Ply 1	MATTAMY HOMES/TETON Job Reference (optional)	I55128462
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Builders FirstSource (Apex, NC),

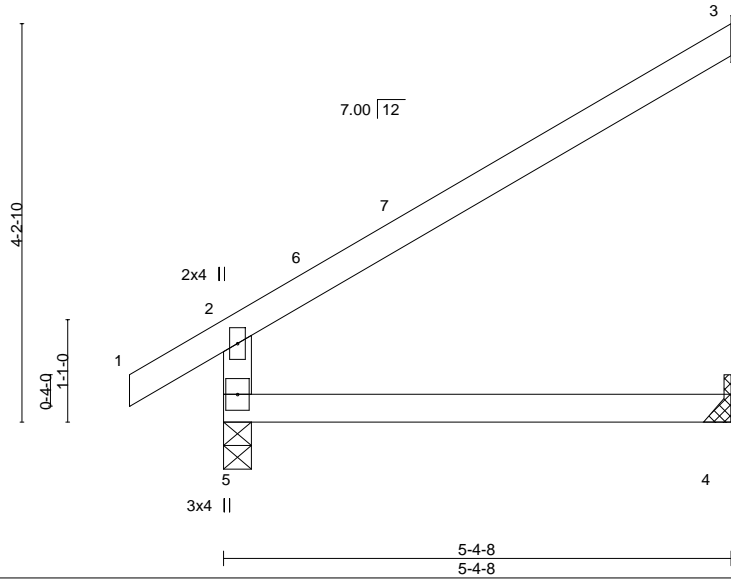
Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:19:59 2022 Page 1

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Scale = 1:24.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	-0.03 4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.07 4-5	>858	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.05 3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR	Wind(LL)	0.04 4-5	>999	240	Weight: 20 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical  
 Max Horz 5=101(LC 12)  
 Max Uplift 3=71(LC 12)  
 Max Grav 5=282(LC 1), 3=144(LC 19), 4=97(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-11-15 to 2-0-1, Interior(1) 2-0-1 to 5-3-12 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.



November 7, 2022

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

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



818 Soundside Road  
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Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128463
PERMIT	B01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

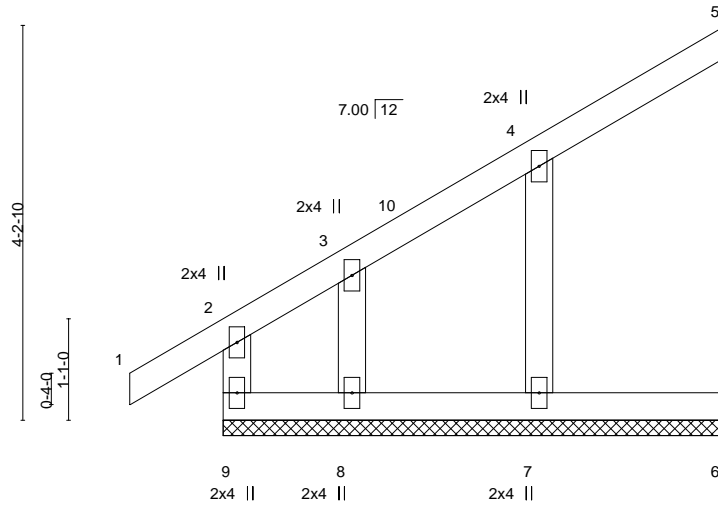
Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:00 2022 Page 1

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Scale = 1:24.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.01	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 26 lb	FT = 20%

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

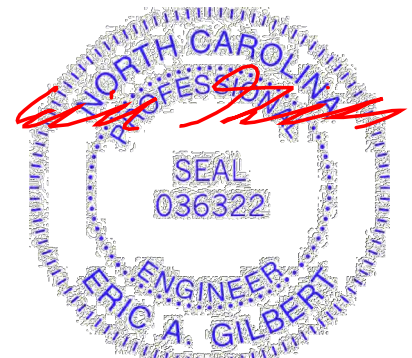
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 5-4-8.  
 (lb) - Max Horz 9=102(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 5, 7 except 8=113(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 9, 5, 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; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-11-15 to 2-0-1, Interior(1) 2-0-1 to 5-4-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) 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) 5, 7 except (jt=lb) 8=113.



November 7, 2022

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

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

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



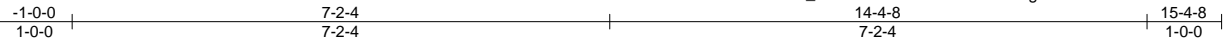
818 Soundside Road  
 Edenton, NC 27932

Job PERMIT	Truss C01G	Truss Type GABLE	Qty 1	Ply 1	MATTAMY HOMES/TETON Job Reference (optional)	155128464
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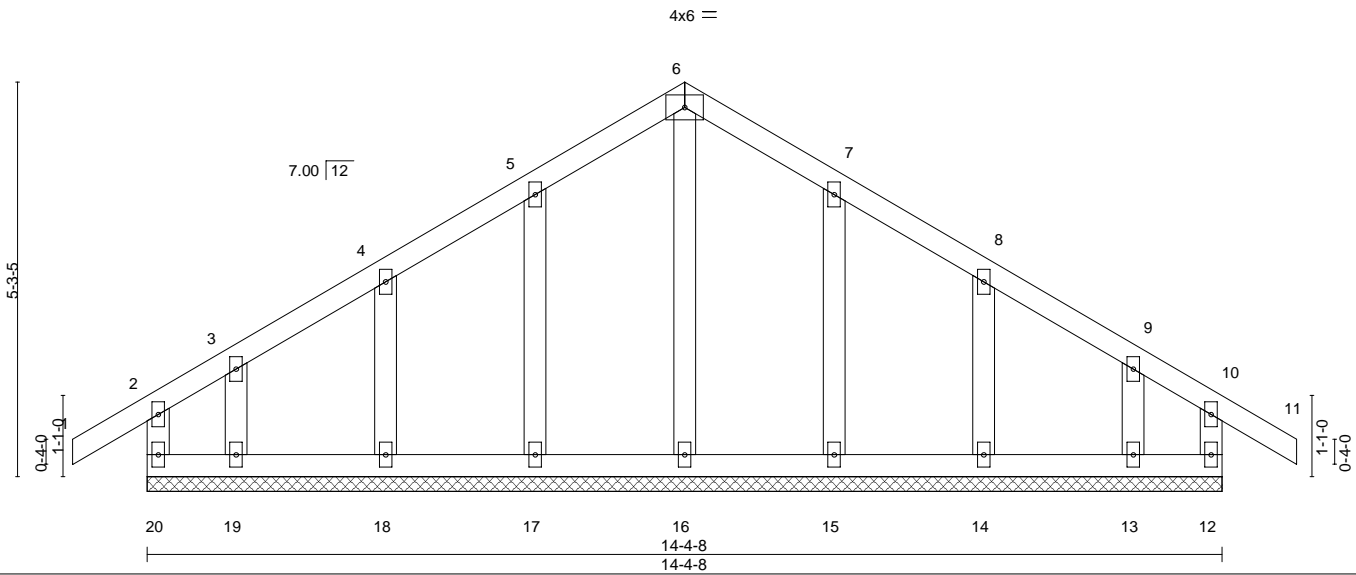
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:01 2022 Page 1

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Scale = 1:30.8



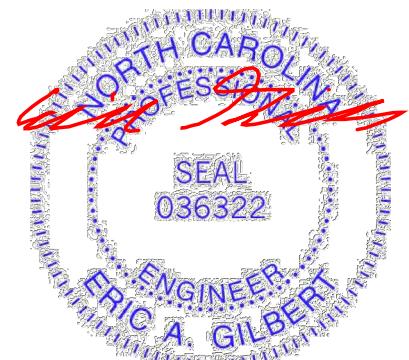
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.00	11	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.01	11	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	-0.00	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 80 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 14-4-8.  
 (lb) - Max Horz 20=119(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13  
 Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 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; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-11-15 to 2-0-1, Exterior(2) 2-0-1 to 7-2-4, Corner(3) 7-2-4 to 10-2-4, Exterior(2) 10-2-4 to 15-4-7 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 2x4 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, 12, 17, 18, 19, 15, 14, 13.



November 7, 2022

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

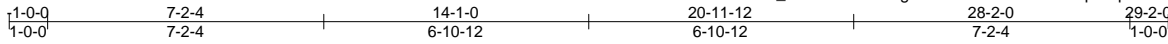
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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

**TRENCO**  
 ENGINEERING BY  
 818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128465
PERMIT	D01	COMMON	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:02 2022 Page 1

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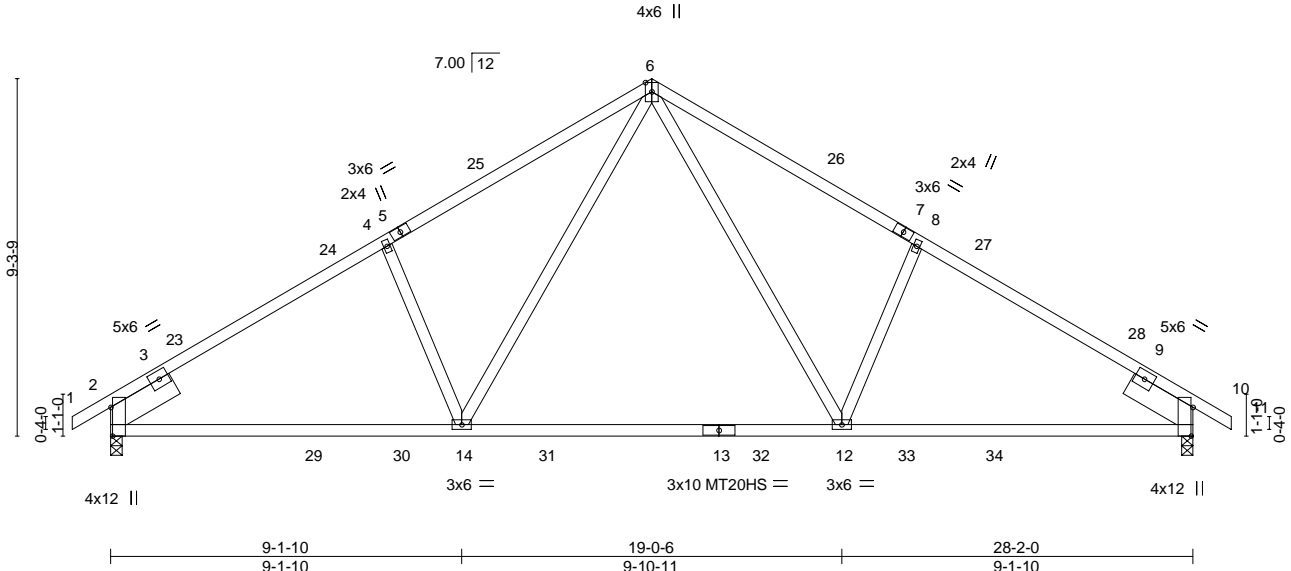


Plate Offsets (X,Y)--	[2:0-8-15,Edge], [10:0-8-15,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.95	in (loc) l/defl L/d	MT20 244/190	
TCDL 10.0	Plate Grip DOL 1.15	BC 1.00	Vert(LL) -0.41 12-14 >815 360	MT20HS 187/143	
BCLL 0.0 *	Lumber DOL 1.15	WB 0.26	Vert(CT) -0.69 12-14 >492 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.11 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.05 12-14 >999 240	Weight: 151 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-5,7-11: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2 *Except* 2-13: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12	

**REACTIONS.** (size) 2=0-3-8, 10=0-3-8  
 Max Horz 2=173(LC 11)  
 Max Grav 2=1237(LC 19), 10=1237(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1639/151, 4-6=-1536/137, 6-8=-1534/138, 8-10=-1637/180  
 BOT CHORD 2-14=0/1443, 12-14=0/994, 10-12=0/1311  
 WEBS 6-12=-41/685, 8-12=-333/150, 6-14=-40/688, 4-14=-334/149

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-11-15 to 2-0-1, Interior(1) 2-0-1 to 14-1-0, Exterior(2) 14-1-0 to 18-3-15, Interior(1) 18-3-15 to 29-1-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are MT20 plates unless otherwise indicated.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



November 7, 2022

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

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**TRENCO**  
 ENGINEERING BY  
 818 Soundside Road  
 Edenton, NC 27932



Job PERMIT	Truss D02-3PL	Truss Type COMMON	Qty 1	Ply 3	MATTAMY HOMES/TETON	155128467
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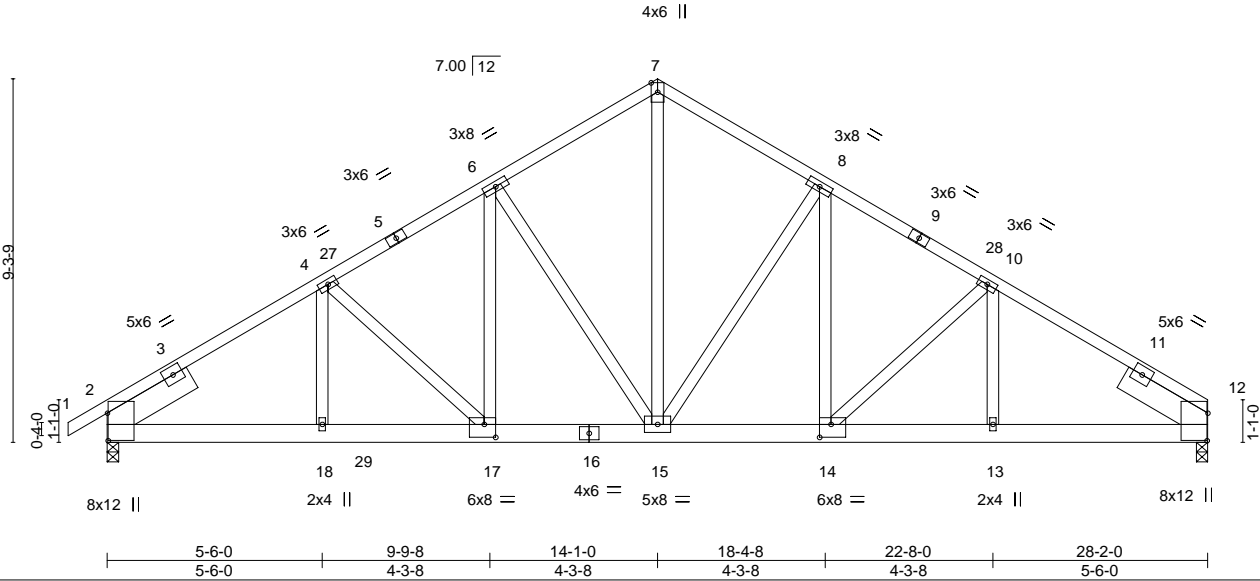
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:05 2022 Page 1

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.96	Vert(LL)	-0.16 17-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.31 17-18	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.64	Horz(CT)	0.08 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-MS	Wind(LL)	0.11 17-18	>999	240	Weight: 632 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except* 1-5,9-12: 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 2x6 SP DSS	
WEBS 2x4 SP No.2	
SLIDER Left 2x8 SP DSS 2-5-12, Right 2x8 SP DSS 2-5-12	

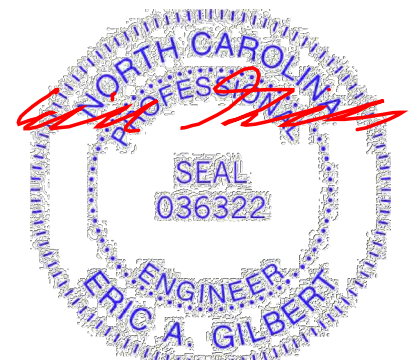
**REACTIONS.** (size) 2=0-3-8, 12=0-3-8  
 Max Horz 2=170(LC 7)  
 Max Uplift 2=-536(LC 8), 12=-601(LC 9)  
 Max Grav 2=7648(LC 1), 12=8507(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-11702/839, 4-6=-10341/744, 6-7=-8110/610, 7-8=-8106/609, 8-10=-10097/723,  
 10-12=-11255/804  
 BOT CHORD 2-18=-739/9833, 17-18=-739/9833, 15-17=-604/8957, 14-15=-534/8725, 13-14=-614/9507,  
 12-13=-614/9507  
 WEBS 7-15=-576/7884, 8-15=-3225/294, 8-14=-259/3310, 10-14=-1095/172, 10-13=-110/1478,  
 6-15=-3641/329, 6-17=-295/3733, 4-17=-1332/183, 4-18=-138/1984

- NOTES-**
- 3-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 - 3 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=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=536, 12=601.
  - Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2705 lb down and 230 lb up at 5-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

Continued on page 2



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**TRENCO**  
 ENGINEERING BY  
 818 Soundside Road  
 Edenton, NC 27932

Job PERMIT	Truss D02-3PL	Truss Type COMMON	Qty 1	Ply <b>3</b>	MATTAMY HOMES/TETON Job Reference (optional)	I55128467
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:06 2022 Page 2  
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**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
  - Vert: 1-7=-60, 7-12=-60, 19-29=-20, 23-29=-534(B=-514)
- Concentrated Loads (lb)
  - Vert: 18=-2705(B)

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

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818 Soundside Road  
Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128468
PERMIT	E01	MONO HIP	10	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:06 2022 Page 1  
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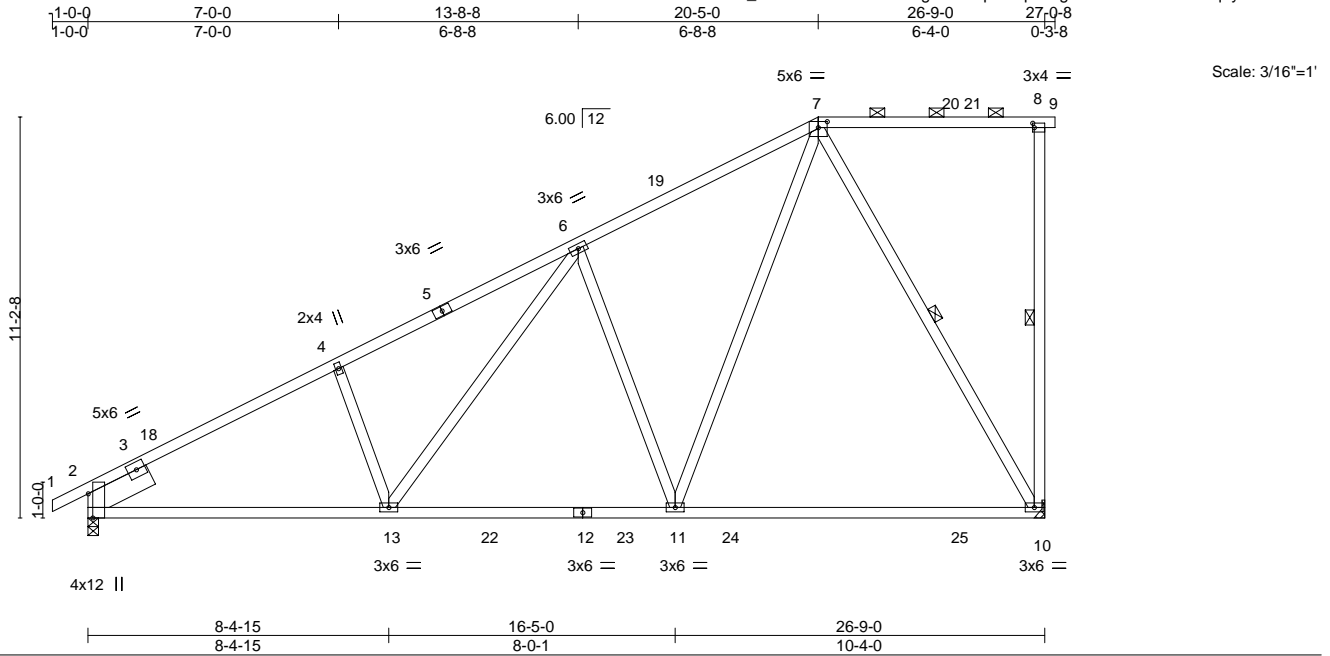


Plate Offsets (X,Y)-- [2:0-8-1,Edge], [7:0-3-0,0-2-0], [8:0-0-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.76	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.91	Vert(LL) -0.46 10-11 >700 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.78	Vert(CT) -0.74 10-11 >431 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) -0.08 10-11 >999 240	Weight: 173 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-5: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-11-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD 2x4 SP No.2 *Except* 10-12: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 8-0-1 oc bracing.
WEBS 2x4 SP No.3 *Except* 8-10,7-10: 2x4 SP No.2	WEBS 1 Row at midpt 8-10, 7-10
SLIDER Left 2x8 SP DSS 1-11-12	

**REACTIONS.** (size) 10=Mechanical, 2=0-3-8  
 Max Horz 2=343(LC 11)  
 Max Uplift 10=80(LC 9), 2=60(LC 12)  
 Max Grav 10=1161(LC 2), 2=1125(LC 23)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1573/98, 4-6=-1460/154, 6-7=-1014/154  
 BOT CHORD 2-13=-281/1336, 11-13=-218/1027, 10-11=-165/500  
 WEBS 4-13=-279/157, 6-13=-77/459, 6-11=-626/214, 7-11=-91/1001, 7-10=-955/185

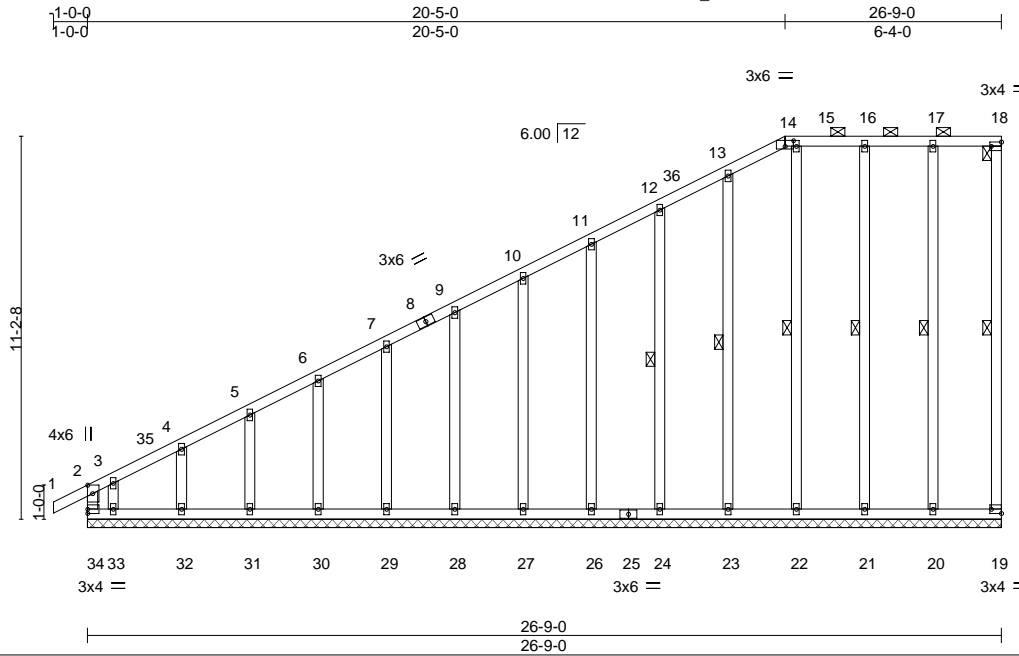
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 20-5-0, Exterior(2) 20-5-0 to 24-7-15, Interior(1) 24-7-15 to 27-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 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) 10, 2.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128469
PERMIT	E01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:08 2022 Page 1  
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Scale = 1:67.5

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [14:0-3-0,0-2-0], [18:Edge,0-1-8], [19:Edge,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.61	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.15	Horz(CT)	-0.01	19	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 228 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 14-18.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 18-19, 17-20, 16-21, 15-22, 13-23, 12-24
18-19: 2x4 SP No.2	
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 26-9-0.  
 (lb) - Max Horz 34=349(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 34, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32 except 33=-382(LC 9)  
 Max Grav All reactions 250 lb or less at joint(s) 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 33 except 34=498(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-34=-513/210, 2-3=-643/309, 3-4=-479/242, 4-5=-443/229, 5-6=-404/216,  
 6-7=-366/203, 7-9=-328/189, 9-10=-290/176, 10-11=-252/163  
 WEBS 3-33=-189/360

- 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=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 20-5-0, Corner(3) 20-5-0 to 23-5-0, Exterior(2) 23-5-0 to 26-7-4 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.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 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) 34, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32 except (jt=lb) 33=382.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

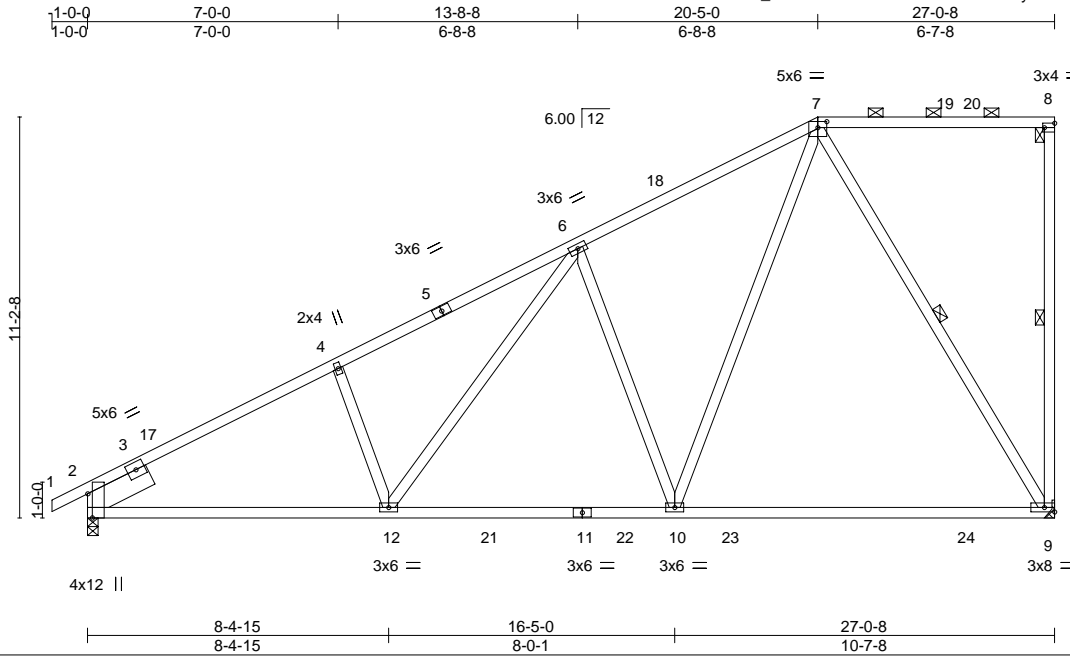


November 7, 2022

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128470
PERMIT	E02	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:09 2022 Page 1  
 ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-?ib?YNGZmNZ7eGJylxmOfIUy6eEMkXvyh\_13RRyLaEa



Scale: 3/16"=1'

Plate Offsets (X,Y)--	[2:0-8-1,Edge], [7:0-3-0,0-2-0], [8:Edge,0-1-8]
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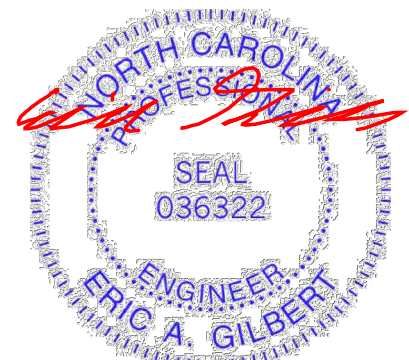
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL)	-0.51	9-10	>630	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.96	Vert(CT)	-0.83	9-10	>388		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.04	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	-0.09	9-10	>999		
								Weight: 174 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-5: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-9-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD 2x4 SP No.2 *Except* 9-11: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 8-9,7-9: 2x4 SP No.2	WEBS 1 Row at midpt 8-9, 7-9
SLIDER Left 2x8 SP DSS 1-11-12	

REACTIONS.
(size) 9=Mechanical, 2=0-3-8 Max Horz 2=343(LC 11) Max Uplift 9=88(LC 12), 2=69(LC 12) Max Grav 9=1152(LC 2), 2=1137(LC 1)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1594/114, 4-6=-1482/170, 6-7=-1043/164 BOT CHORD 2-12=-284/1355, 10-12=-221/1051, 9-10=-169/522 WEBS 4-12=-278/156, 6-12=-76/454, 6-10=-623/211, 7-10=-85/1007, 7-9=-970/183

- 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=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 20-5-0, Exterior(2) 20-5-0 to 24-7-15, Interior(1) 24-7-15 to 26-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 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, 2.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 7, 2022

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

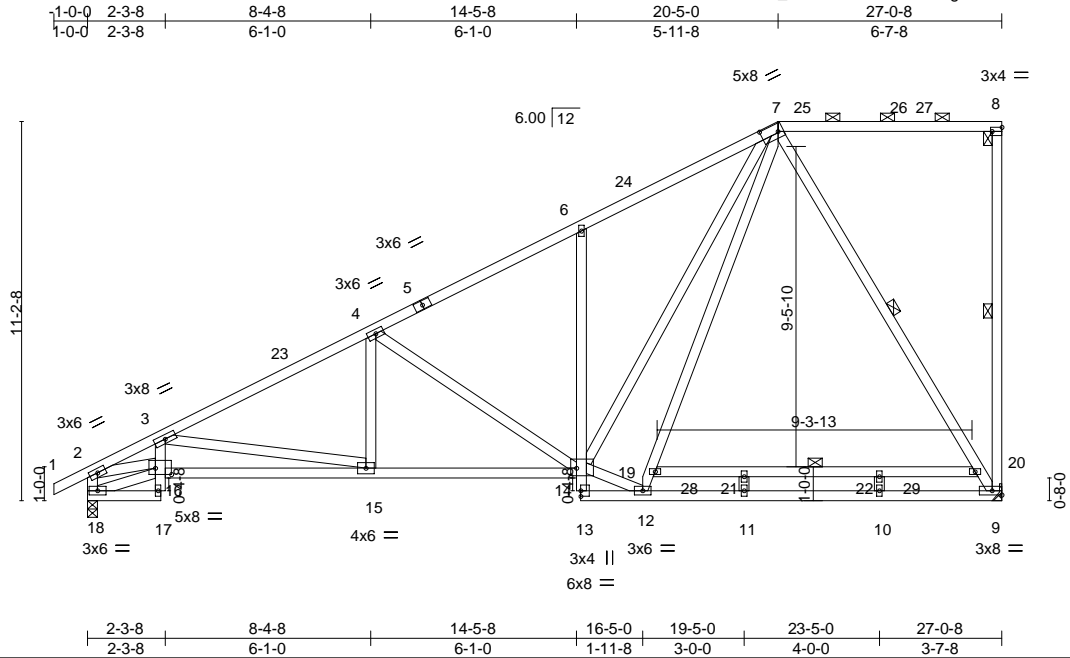
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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

**TRENCO**  
 ENGINEERING BY  
 818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128471
PERMIT	E03T	SPECIAL	7	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MITek Industries, Inc. Mon Nov 7 13:44:09 2022 Page 1  
 ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-n0ARRNgvs2IcUzFrKGA9buDtylSndzxod6vIKJyLZ?q



Scale = 1:68.1

Plate Offsets (X,Y)--	[7:0-6-0,0-2-12], [8:Edge,0-1-8], [14:0-2-0,0-2-12], [16:0-5-12,0-2-4]								
<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 0.66	Vert(LL) -0.45	10-11	>711	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.63	10-11	>506	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.82	Horz(CT) 0.08	9	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) -0.05	10	>999	240			
								Weight: 217 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD 2x4 SP No.3 *Except* 17-18,14-16: 2x4 SP No.2, 9-13: 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 8-9,7-9,19-20: 2x4 SP No.2	WEBS 1 Row at midpt 8-9, 7-9, 19-20

**REACTIONS.** (size) 18=0-3-8, 9=Mechanical  
 Max Horz 18=349(LC 9)  
 Max Uplift 18=-1(LC 12), 9=-69(LC 9)  
 Max Grav 18=1140(LC 1), 9=1089(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-18=-1069/74, 2-3=-1915/119, 3-23=-1765/36, 4-23=-1661/53, 4-5=-1198/69,  
 5-6=-1114/98, 6-24=-1188/153, 7-24=-1105/181  
 BOT CHORD 15-16=-545/1883, 14-15=-297/1509, 13-14=-345/0, 6-14=-364/132, 11-12=-159/537,  
 10-11=-159/537, 9-10=-159/537  
 WEBS 16-18=-357/216, 2-16=-101/1628, 3-15=-402/251, 4-15=0/330, 4-14=-619/80,  
 12-14=-28/853, 7-14=-251/985, 12-19=0/480, 7-19=0/559, 7-20=-920/182, 9-20=-974/151

- 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=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-1-12, Interior(1) 2-1-12 to 20-5-0, Exterior(2) 20-5-0 to 24-7-15, Interior(1) 24-7-15 to 26-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 18 and 69 lb uplift at joint 9.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) N/A
  - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 7, 2022

**LOAD CASE(S)**

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 truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128471
PERMIT	E03T	SPECIAL	7	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MITek Industries, Inc. Mon Nov 7 13:44:09 2022 Page 2  
ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-n0ARRNngvs2IcUzFrKGA9buDtylSndzxod6vIKJyLZ?q

**LOAD CASE(S)**

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-7=-60, 7-8=-60, 17-18=-20, 14-16=-20, 9-13=-20
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-50, 2-7=-50, 7-8=-50, 17-18=-20, 14-16=-20, 9-13=-20, 28-29=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-7=-20, 7-8=-20, 17-18=-40, 14-16=-40, 9-13=-40, 28-29=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=42, 2-3=22, 3-7=12, 7-27=20, 8-27=15, 17-18=-12, 14-16=-12, 9-13=-12  
Horz: 2-18=14, 1-2=-54, 2-3=-34, 3-7=-24, 8-9=26
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=8, 2-24=12, 7-24=22, 7-26=15, 8-26=20, 17-18=-12, 14-16=-12, 9-13=-12  
Horz: 2-18=-26, 1-2=-20, 2-24=-24, 7-24=-34, 8-9=-14
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-13, 2-7=-32, 7-8=-29, 17-18=-20, 14-16=-20, 9-13=-20  
Horz: 2-18=-17, 1-2=-7, 2-7=12, 8-9=23
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-27, 2-7=-32, 7-8=-29, 17-18=-20, 14-16=-20, 9-13=-20  
Horz: 2-18=23, 1-2=7, 2-7=12, 8-9=17
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=7, 2-7=3, 7-8=19, 17-18=-12, 14-16=-12, 9-13=-12  
Horz: 2-18=13, 1-2=-19, 2-7=-9, 8-9=16
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=2, 2-7=7, 7-8=19, 17-18=-12, 14-16=-12, 9-13=-12  
Horz: 2-18=-16, 1-2=-14, 2-7=-19, 8-9=-13
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-15, 2-7=-20, 7-8=2, 17-18=-20, 14-16=-20, 9-13=-20  
Horz: 2-18=21, 1-2=-5, 2-7=0, 8-9=7
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-6, 2-7=-10, 7-8=2, 17-18=-20, 14-16=-20, 9-13=-20  
Horz: 2-18=7, 1-2=-14, 2-7=-10, 8-9=21
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=14, 2-23=19, 7-23=9, 7-8=2, 17-18=-12, 14-16=-12, 9-13=-12  
Horz: 2-18=11, 1-2=-26, 2-23=-31, 7-23=-21, 8-9=12
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-3, 2-7=2, 7-25=2, 8-25=5, 17-18=-12, 14-16=-12, 9-13=-12  
Horz: 2-18=-12, 1-2=-9, 2-7=-14, 8-9=11
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=5, 2-7=9, 7-8=2, 17-18=-12, 14-16=-12, 9-13=-12  
Horz: 2-18=5, 1-2=-17, 2-7=-21, 8-9=12
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-3, 2-7=2, 7-8=2, 17-18=-12, 14-16=-12, 9-13=-12  
Horz: 2-18=-12, 1-2=-9, 2-7=-14, 8-9=5
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=6, 2-23=2, 7-23=7, 7-8=-15, 17-18=-20, 14-16=-20, 9-13=-20  
Horz: 2-18=19, 1-2=-26, 2-23=-22, 7-23=-13, 8-9=3
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-11, 2-7=-15, 7-25=-15, 8-25=-11, 17-18=-20, 14-16=-20, 9-13=-20  
Horz: 2-18=-3, 1-2=-9, 2-7=-5, 8-9=-19
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-7=-20, 7-8=-20, 17-18=-20, 14-16=-20, 9-13=-20, 28-29=-40
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-46, 2-7=-50, 7-8=-34, 17-18=-20, 14-16=-20, 9-13=-20, 28-29=-30  
Horz: 2-18=16, 1-2=-4, 2-7=0, 8-9=6
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128471
PERMIT	E03T	SPECIAL	7	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MITek Industries, Inc. Mon Nov 7 13:44:09 2022 Page 3  
 ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-n0ARRNgvs2IcUzFrKGA9buDtylSndzxod6vIKJyLZ?q

**LOAD CASE(S)**

Uniform Loads (plf)

Vert: 1-2=-39, 2-7=-43, 7-8=-34, 17-18=-20, 14-16=-20, 9-13=-20, 28-29=-30  
 Horz: 2-18=-6, 1-2=-11, 2-7=-7, 8-9=-16

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-30, 2-23=-34, 7-23=-41, 7-8=-46, 17-18=-20, 14-16=-20, 9-13=-20, 28-29=-30  
 Horz: 2-18=15, 1-2=-20, 2-23=-16, 7-23=-9, 8-9=2

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-43, 2-7=-46, 7-25=-46, 8-25=-44, 17-18=-20, 14-16=-20, 9-13=-20, 28-29=-30  
 Horz: 2-18=-2, 1-2=-7, 2-7=-4, 8-9=-15

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-7=-60, 7-8=-60, 17-18=-20, 14-16=-20, 9-13=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-7=-20, 7-8=-60, 17-18=-20, 14-16=-20, 9-13=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-50, 2-7=-50, 7-8=-50, 17-18=-20, 14-16=-20, 9-13=-20, 28-29=-30

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-7=-20, 7-8=-50, 17-18=-20, 14-16=-20, 9-13=-20, 28-29=-30

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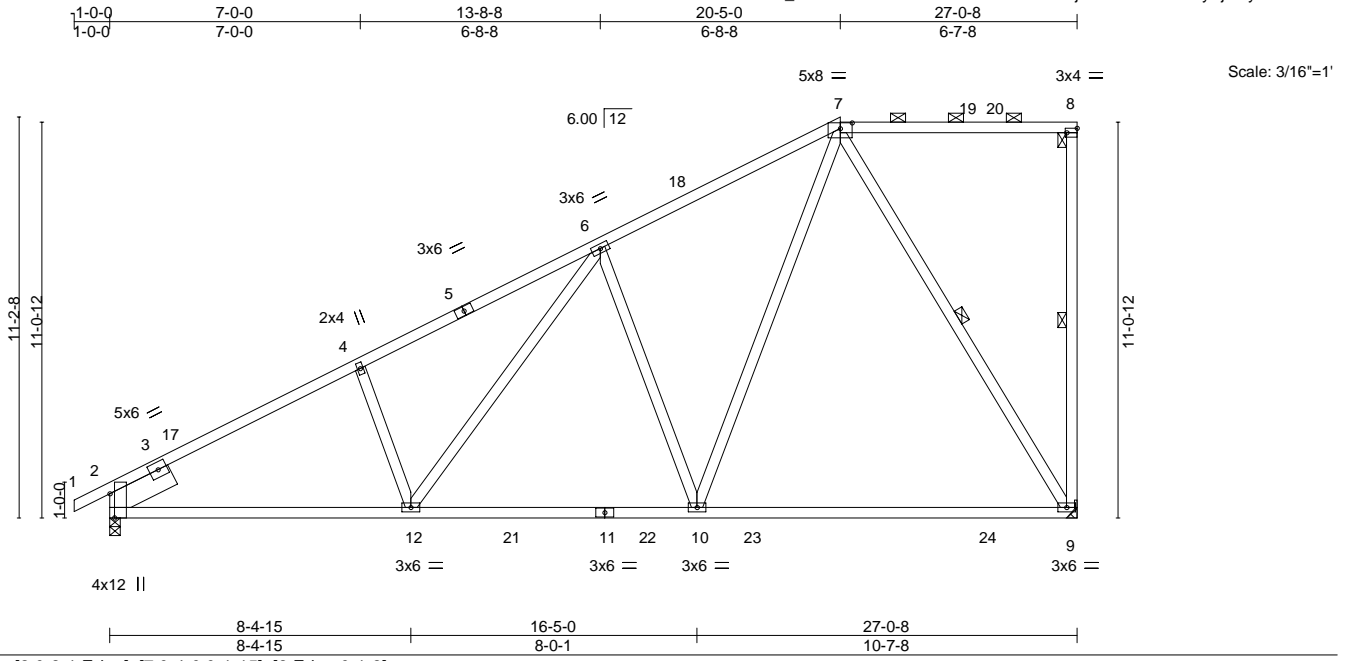
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128472
PERMIT	E04	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:12 2022 Page 1

ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-QHH7AOIR3ixIVk2XQ3JjHx63LRG5xvONyFj1myLaEX



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.78	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.96	Vert(LL) -0.51 9-10 >633 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.77	Vert(CT) -0.83 9-10 >390 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) -0.09 9-10 >999 240	Weight: 174 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-5: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-9-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD 2x4 SP No.2 *Except* 9-11: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 8-9,7-9: 2x4 SP No.2	WEBS 1 Row at midpt 8-9, 7-9
SLIDER Left 2x8 SP DSS 1-11-12	

REACTIONS.
(size) 9=Mechanical, 2=0-3-8 Max Horz 2=338(LC 11) Max Uplift 9=66(LC 9), 2=62(LC 12) Max Grav 9=1151(LC 2), 2=1137(LC 1)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1594/100, 4-6=-1482/156, 6-7=-1040/152 BOT CHORD 2-12=-282/1355, 10-12=-219/1050, 9-10=-167/526 WEBS 4-12=-278/157, 6-12=-78/454, 6-10=-613/212, 7-10=-86/998, 7-9=-971/181

- 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=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 20-5-0, Exterior(2) 20-5-0 to 24-7-15, Interior(1) 24-7-15 to 26-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 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, 2.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 7, 2022

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**TRENCO**  
ENGINEERING BY  
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128473
PERMIT	E05G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:13 2022 Page 1  
 ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-uTrWnkJ3qb3Z6udk\_nqyp8elqFm6gWAXcc?GaCyLaEW

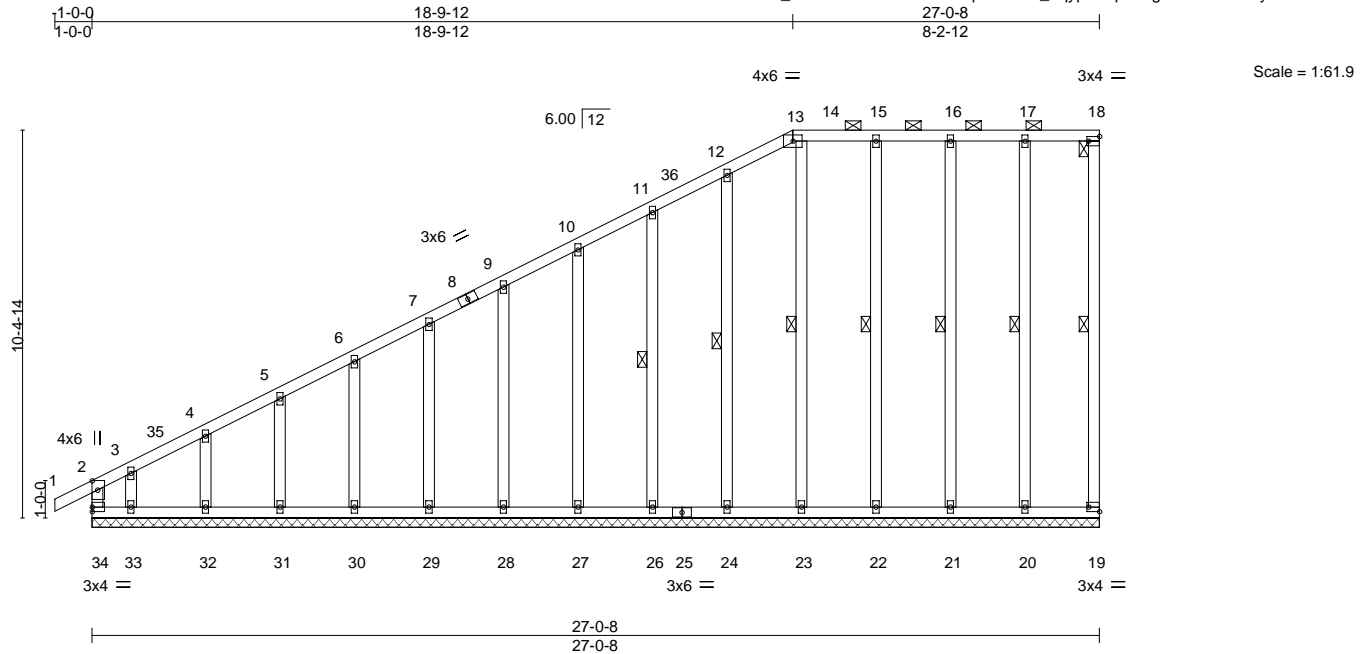


Plate Offsets (X,Y)--	[2:0-3-0,Edge], [18:Edge,0-1-8], [19:Edge,0-1-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.00 1 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.12	Horz(CT) -0.00 19 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R		Weight: 226 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, and 2-0-0 oc purlins (6-0-0 max.): 13-18.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 27-0-8.  
 (lb) - Max Horz 34=324(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 34, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32 except 33=260(LC 9)  
 Max Grav All reactions 250 lb or less at joint(s) 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 33 except 34=360(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-34=-396/152, 2-3=-561/270, 3-4=-432/220, 4-5=-401/208, 5-6=-361/195, 6-7=-324/182, 7-9=-286/168  
 WEBS 3-33=-153/276

- 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=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 18-9-12, Corner(3) 18-9-12 to 21-9-12, Exterior(2) 21-9-12 to 26-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 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) 34, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32 except (jt=lb) 33=260.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 7, 2022

**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

**TRENCO**  
 ENGINEERING BY  
 818 Soundside Road  
 Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128474
PERMIT	P01	MONO TRUSS	5	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:14 2022 Page 1

ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-MgPub4KhbvBPk2BwYULBMMBVif6rPzlhqGkq6eyLaEV

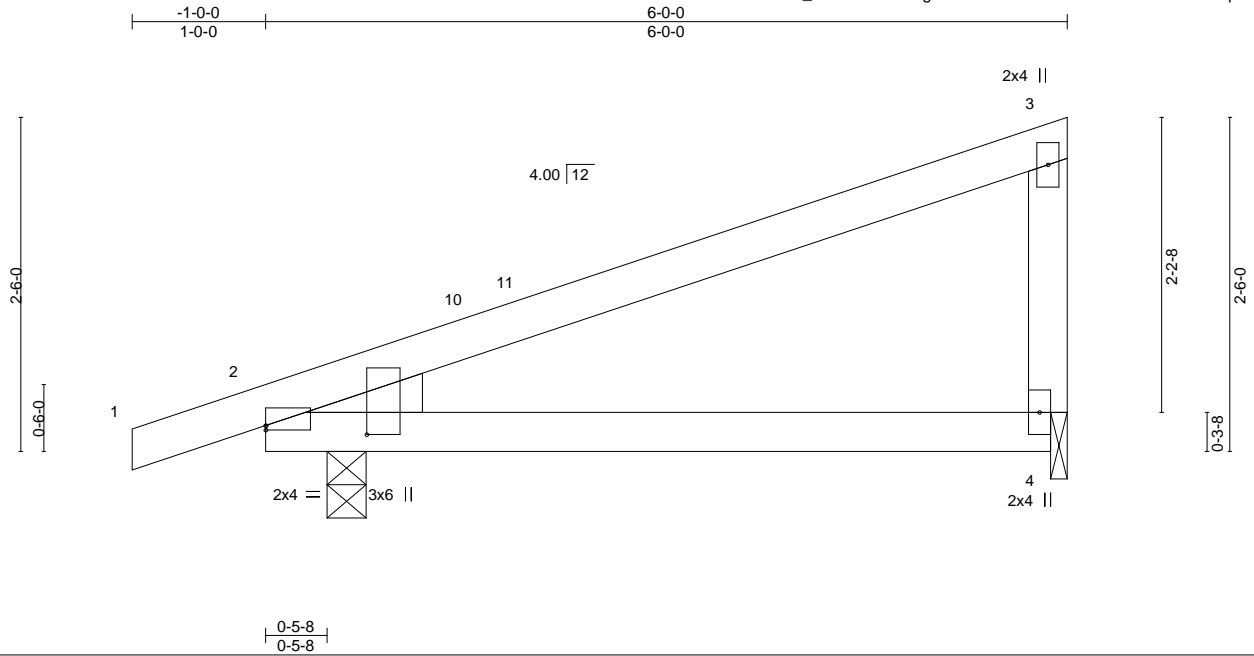


Plate Offsets (X,Y)-- [2:0-0-0,0-0-6], [2:0-0-13,0-9-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(LL) -0.03 4-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.08 4-9 >896 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.01 2 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 4-9 >999 240	Weight: 24 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-8, 4=0-1-8  
 Max Horz 2=75(LC 11)  
 Max Uplift 2=-50(LC 8), 4=-22(LC 12)  
 Max Grav 2=325(LC 1), 4=204(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 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) 2, 4.



November 7, 2022

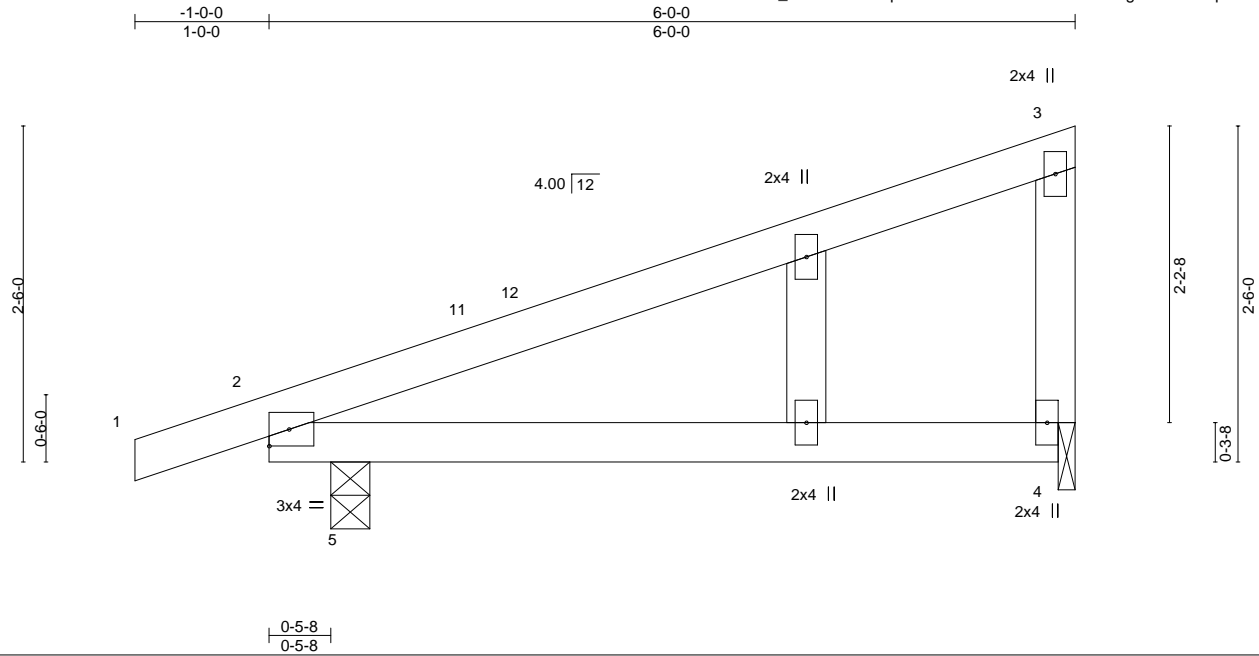
Job PERMIT	Truss P01SG	Truss Type GABLE	Qty 1	Ply 1	MATTAMY HOMES/TETON Job Reference (optional)	155128475
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:15 2022 Page 1

ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-qszGoQLJMDJGMBm65CtQuZkgz3SD8QYq3wUNe4yLaEU



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	Vert(LL)	-0.03	4-5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.29	Vert(CT)	-0.07	4-5	>861		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Wind(LL)	0.02	4-5	>999		
	Code IRC2015/TPI2014						Weight: 25 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.** (size) 5=0-3-8, 4=0-1-8  
 Max Horz 5=75(LC 11)  
 Max Uplift 5=-60(LC 8), 4=-21(LC 12)  
 Max Grav 5=334(LC 1), 4=195(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 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 studs spaced at 2-0-0 oc.
- 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) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.



November 7, 2022

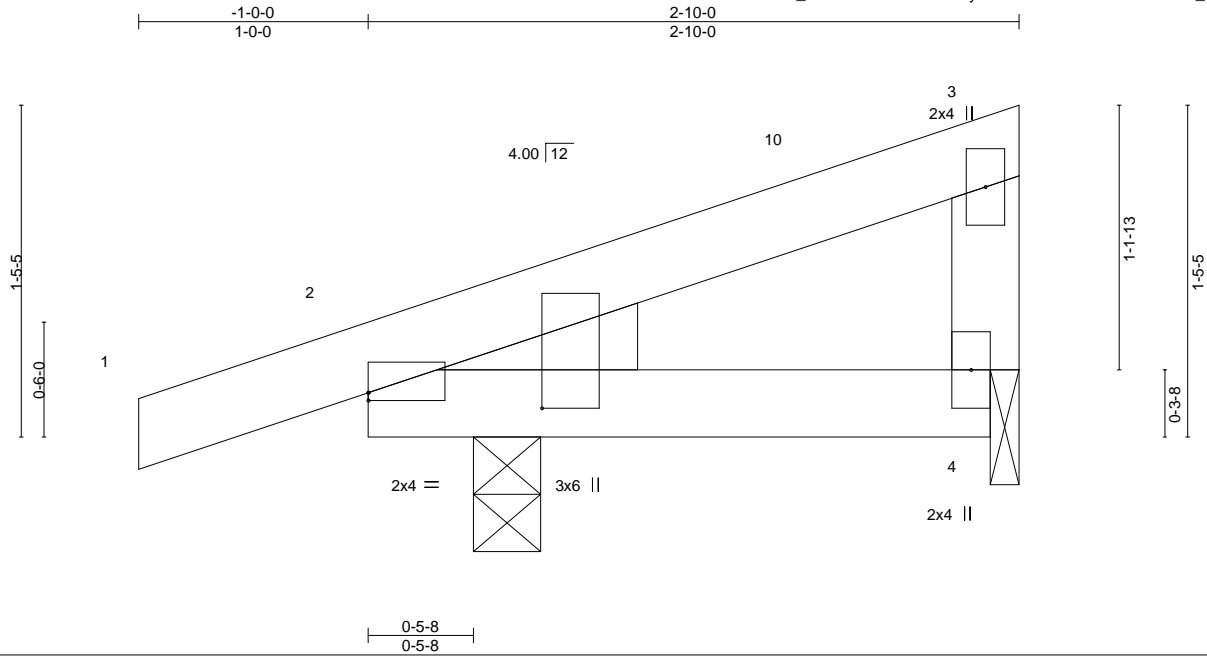
Job PERMIT	Truss P02	Truss Type MONO TRUSS	Qty 5	Ply 1	MATTAMY HOMES/TETON	155128476
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:16 2022 Page 1

ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-I2Xe0mLy6WS7zLLJfVOfRnGwSTsRtto\_laDxBXyLaET



Scale = 1:10.0

Plate Offsets (X,Y)--	[2:0-0-0,0-0-6], [2:0-0-13,0-9-1]				
<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 0.07	Vert(LL) -0.00 9 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00 9 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.00 9 >999 240	Weight: 13 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-10-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-8, 4=0-1-8  
 Max Horz 2=40(LC 11)  
 Max Uplift 2=-49(LC 8), 4=-5(LC 12)  
 Max Grav 2=215(LC 1), 4=60(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-8-4 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) 2, 4.



November 7, 2022

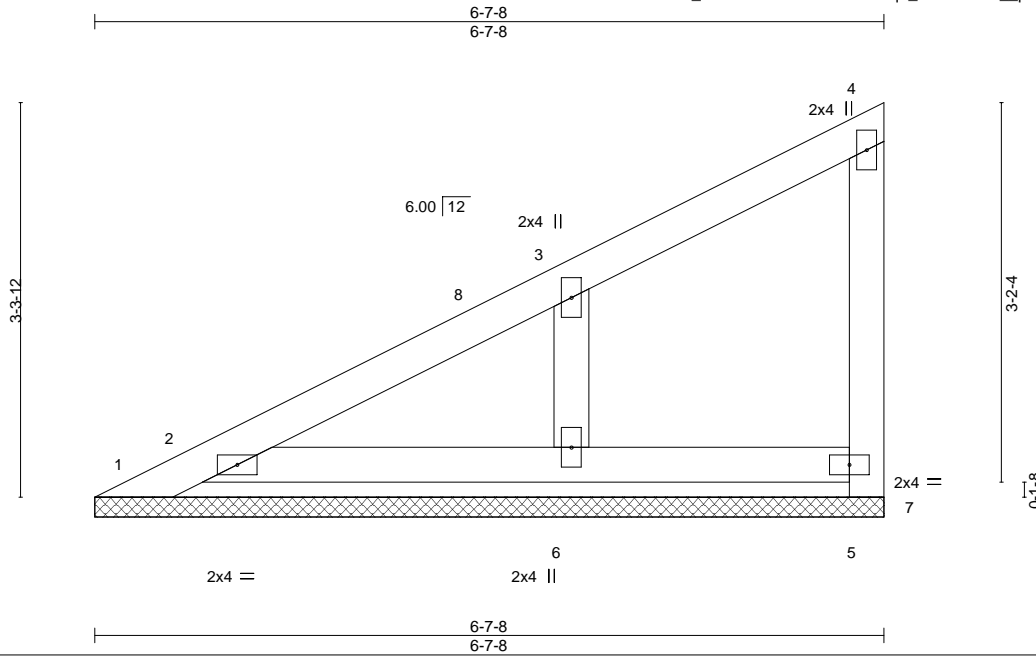
Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128477
PERMIT	PB01	GABLE	16	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:17 2022 Page 1

ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-mF40D6Matqa\_bVwVdvcu\_\_p5HsBrckG7WEzUjzyLaES



Scale = 1:19.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	-0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 26 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 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 6-7-8.  
 (lb) - Max Horz 1=97(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 2, 5, 6  
 Max Grav All reactions 250 lb or less at joint(s) 1, 2, 5 except 6=260(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-15 to 3-3-15, Exterior(2) 3-3-15 to 6-5-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 1, 7, 2, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 5, 6.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



November 7, 2022

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

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



818 Soundside Road  
 Edenton, NC 27932

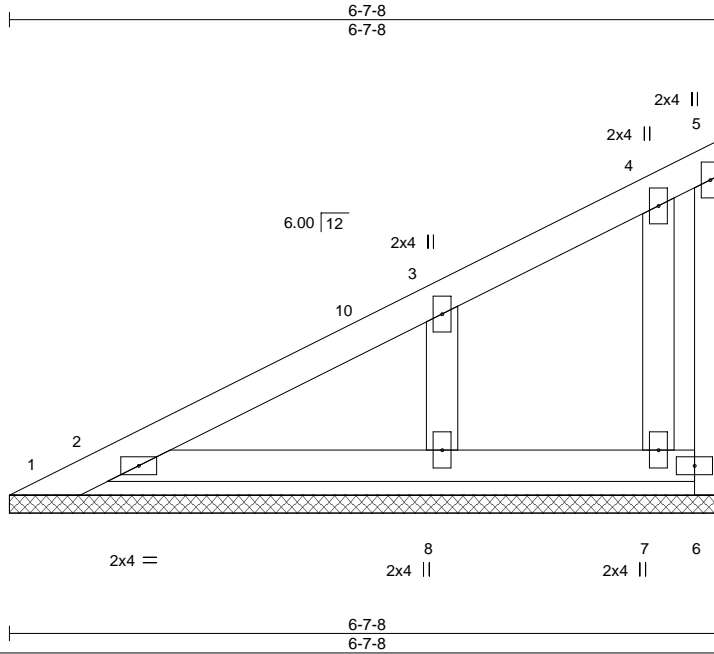
Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128478
PERMIT	PB01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:18 2022 Page 1

ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-ERePRSNce8irDfVhnKQ7WCMG4GWCLnZGlu1FPyLaER



Scale = 1:21.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.12	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	-0.00	9	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-P					Weight: 29 lb	FT = 20%
	Code IRC2015/TPI2014							

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

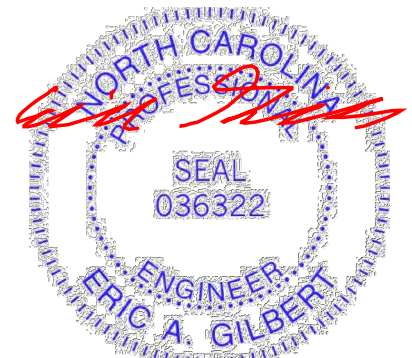
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 6-7-8.  
 (lb) - Max Horz 1=97(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 2, 6, 8, 7  
 Max Grav All reactions 250 lb or less at joint(s) 1, 2, 6, 8, 7

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-15 to 3-3-15, Exterior(2) 3-3-15 to 6-5-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 1, 9, 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 6, 8, 7.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



November 7, 2022

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

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128479
PERMIT	PB02	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:19 2022 Page 1

ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-jdCneoOqPRqiqp4tK1xM3PuQjgsJ4EfQ\_YSbnsyLaEQ

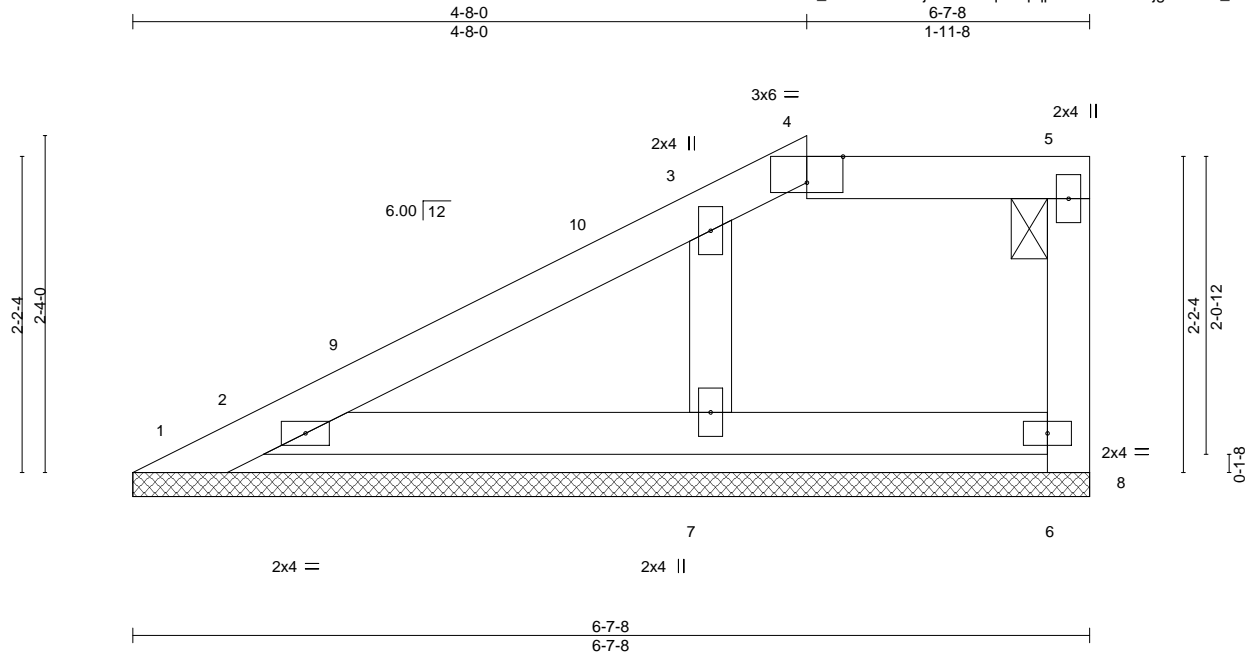


Plate Offsets (X,Y)--	[4:0-3:0,Edge]						
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a 999
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a 999
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	-0.00	8	n/a n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P				
							<b>PLATES</b>
							MT20
							<b>GRIP</b>
							244/190
							Weight: 24 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, and 2-0-0 oc purlins: 4-5.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

**REACTIONS.** All bearings 6-7-8.  
 (lb) - Max Horz 1=63(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 2, 6, 7  
 Max Grav All reactions 250 lb or less at joint(s) 1, 2, 6 except 7=261(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-15 to 3-3-15, Exterior(2) 3-3-15 to 4-8-0, Corner(3) 4-8-0 to 6-5-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) Gable studs spaced at 4-0-0 oc.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 9) Bearing at joint(s) 8, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 6, 7.
  - 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
  - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128480
PERMIT	PB03	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:20 2022 Page 1  
 ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-Bqm9r7OSAlYzSzf4ulSbbdRXG49XphnZDCB8KlyLaEP



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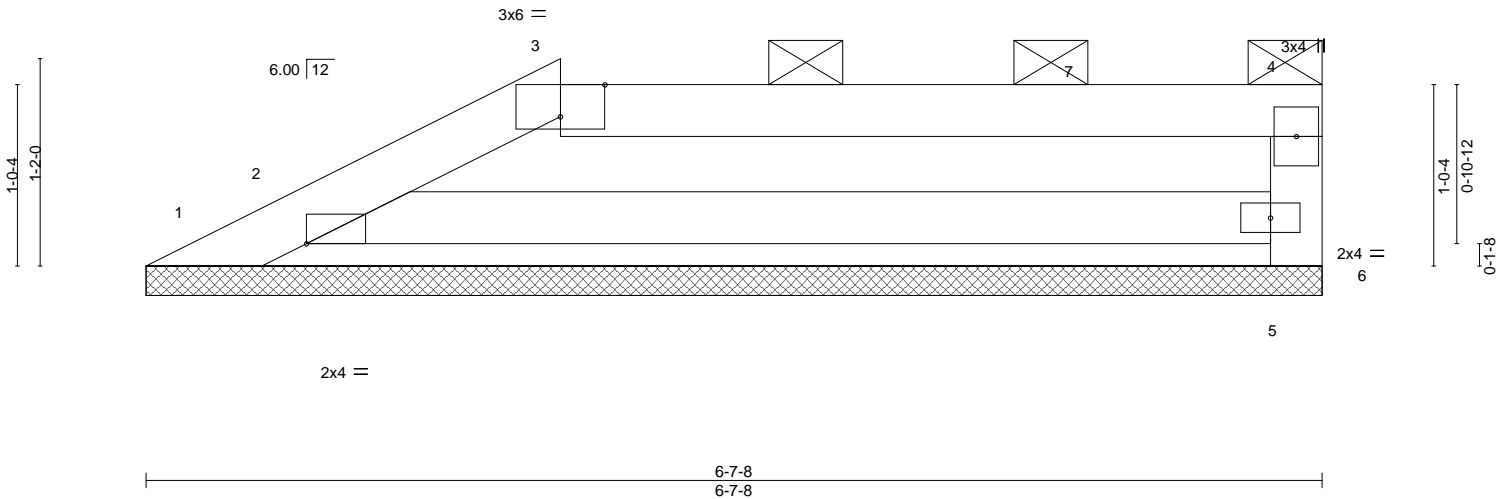


Plate Offsets (X, Y)--	[3:0-3-0,Edge]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 19 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, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

**REACTIONS.** (size) 1=6-7-8, 6=6-7-8, 2=6-7-8  
 Max Horz 1=27(LC 9)  
 Max Uplift 1=-154(LC 1), 6=-15(LC 9), 2=-39(LC 9)  
 Max Grav 1=37(LC 9), 6=205(LC 1), 2=442(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-275/180

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-15 to 5-4-0, Exterior(2) 5-4-0 to 6-5-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2 except (jt=lb) 1=154.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 7, 2022

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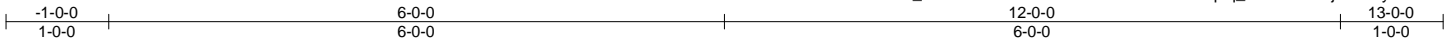
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128481
PERMIT	SP01	COMMON	4	1	Job Reference (optional)	

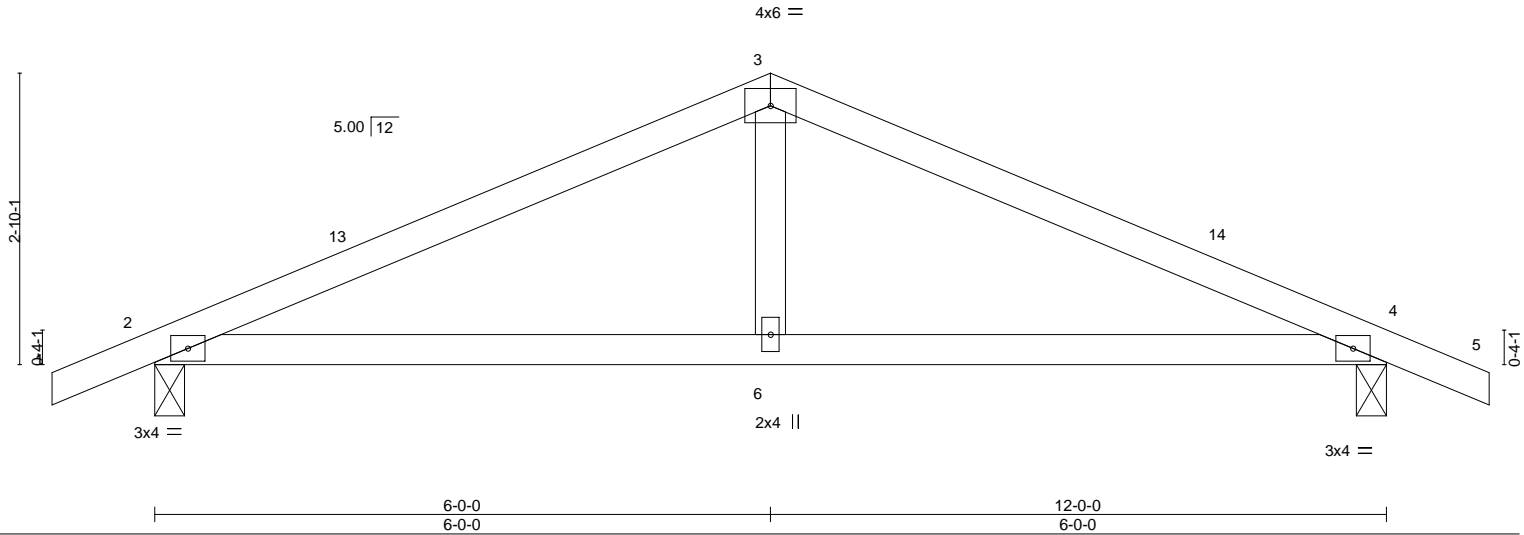
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:21 2022 Page 1

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Scale = 1:22.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	-0.05 6-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.09 6-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.01 4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.04 6-9	>999	240		
								Weight: 44 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 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=-50(LC 13)  
 Max Uplift 2=-26(LC 12), 4=-26(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=-763/88, 3-4=-763/84  
 BOT CHORD 2-6=-4/652, 4-6=-4/652  
 WEBS 3-6=0/280

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



November 7, 2022

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

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



818 Soundside Road  
 Edenton, NC 27932

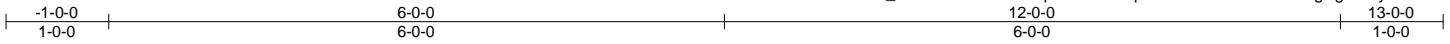


Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128482
PERMIT	SP01G	GABLE	1	1	Job Reference (optional)	

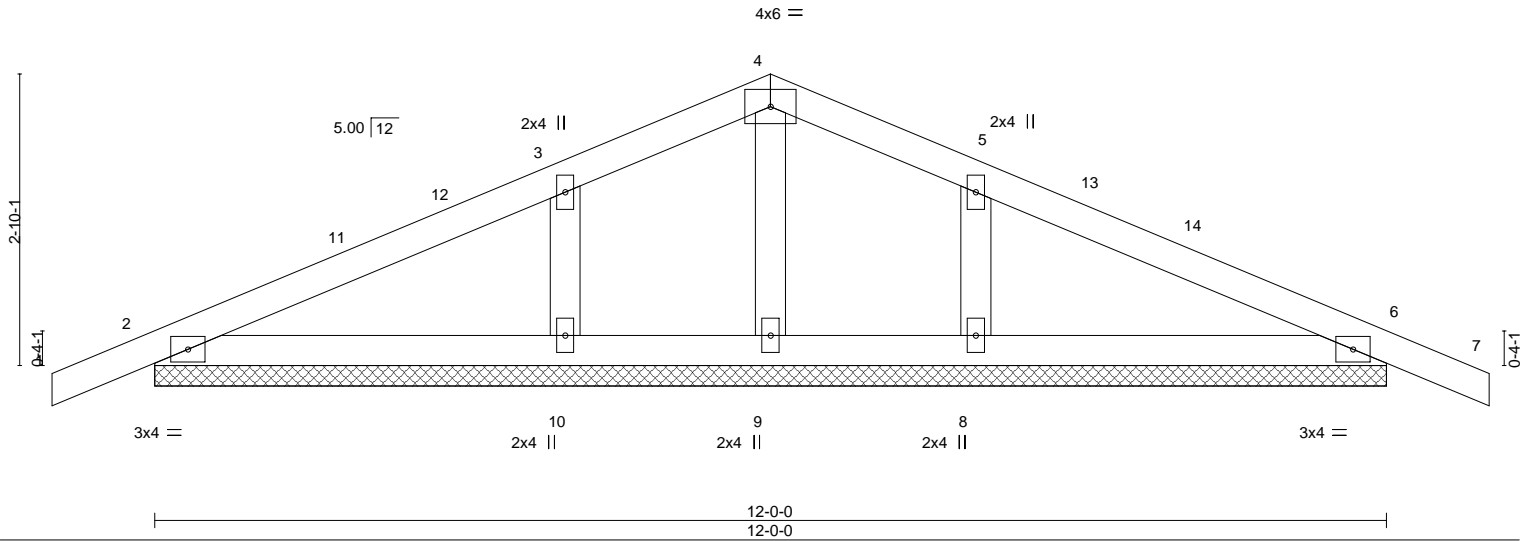
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:22 2022 Page 1

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Scale = 1:22.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	0.00	7	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	0.01	7	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 48 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=-39(LC 13)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8  
 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 10=321(LC 1), 8=321(LC 1)

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

**NOTES-**

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



November 7, 2022

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

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



818 Soundside Road  
 Edenton, NC 27932

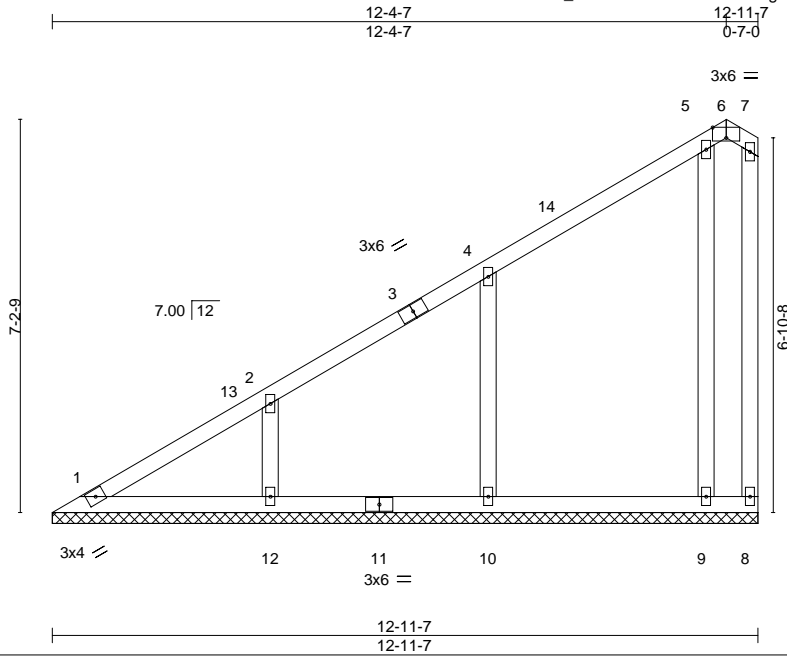
Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128483
PERMIT	V01	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:23 2022 Page 1

ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-bOSHU9RLTgK8JQOfZt0IDF32qHBa0?\_0v9QowdyLaEM



Scale = 1:42.3

Plate Offsets (X,Y)--	[6:0-3-0,Edge]						
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.38	Vert(LL)	n/a	-	n/a 999
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	n/a	-	n/a 999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23	Horz(CT)	-0.00	8	n/a n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S				
							<b>PLATES</b>
							MT20
							<b>GRIP</b>
							244/190
							Weight: 69 lb
							FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.3	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

**REACTIONS.** All bearings 12-11-7.  
 (lb) - Max Horz 1=205(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 10, 9 except 8=-119(LC 19)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 8 except 12=330(LC 1), 10=396(LC 19), 9=407(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-251/261  
 WEBS 4-10=-254/123, 5-9=-268/171

- 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=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 12-4-7, Exterior(2) 12-4-7 to 12-9-11 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
  - All plates are 2x4 MT20 unless otherwise indicated.
  - 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, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 10, 9 except (jt=lb) 8=119.



November 7, 2022

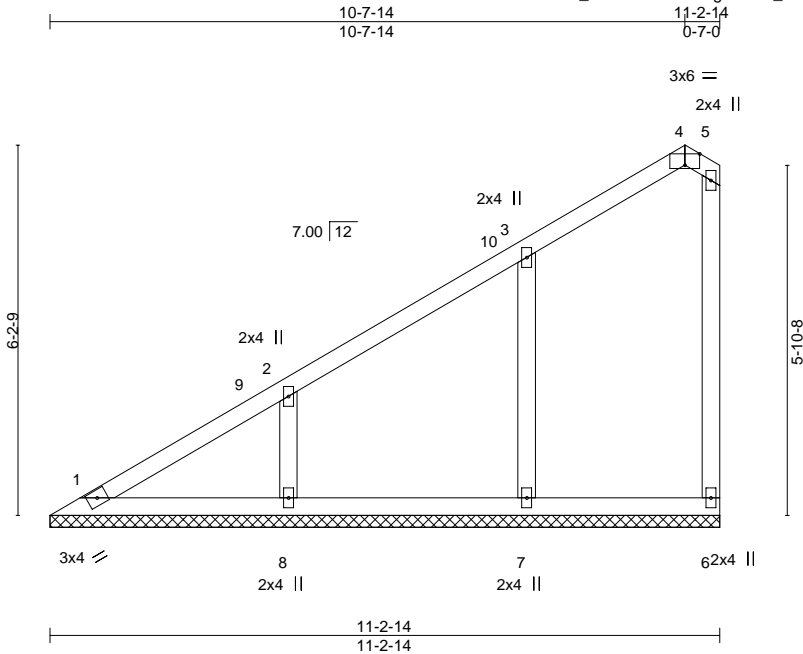
Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128484
PERMIT	V02	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:24 2022 Page 1

ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-3b?ghVSzE\_S?xayr7bXXmTbEWWhXtlUO97p9MT3yLaEL



Scale = 1:38.7

Plate Offsets (X,Y)--	[4:0-3:0,Edge]				
<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 0.32	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) -0.00 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 52 lb	FT = 20%

<b>LUMBER-</b>	
TOP CHORD	2x4 SP No.3
BOT CHORD	2x4 SP No.3
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

<b>BRACING-</b>	
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 11-2-14.  
 (lb) - Max Horz 1=175(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 6, 8, 7  
 Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 8=338(LC 23), 7=362(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-8=-252/123

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 10-7-14, Exterior(2) 10-7-14 to 11-1-2 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, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 8, 7.



November 7, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



818 Soundside Road  
 Edenton, NC 27932

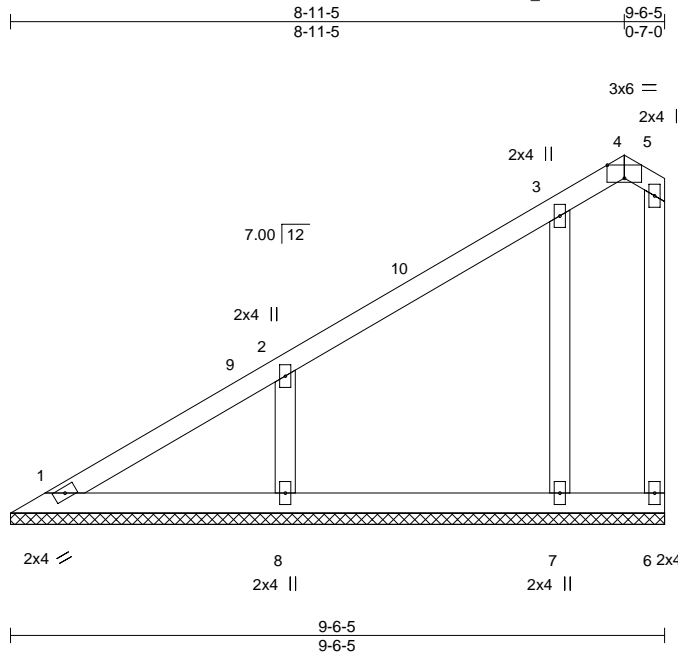
Job PERMIT	Truss V03	Truss Type GABLE	Qty 1	Ply 1	MATTAMY HOMES/TETON Job Reference (optional)	155128485
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:25 2022 Page 1

ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-XnZ2vrSb?HasZkX1hI2mlg8O05t?UxqlMTw?VyLaEK



Scale = 1:33.6

Plate Offsets (X,Y)--	[4:0-3:0,Edge]				
<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 0.33	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) -0.00 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 45 lb	FT = 20%

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

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

**REACTIONS.** All bearings 9-6-5.  
(lb) - Max Horz 1=145(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 6, 8, 7  
Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 8=349(LC 19), 7=269(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-8=-258/124

- 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=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 8-11-5, Exterior(2) 8-11-5 to 9-4-9 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) 6, 8, 7.



November 7, 2022

**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

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

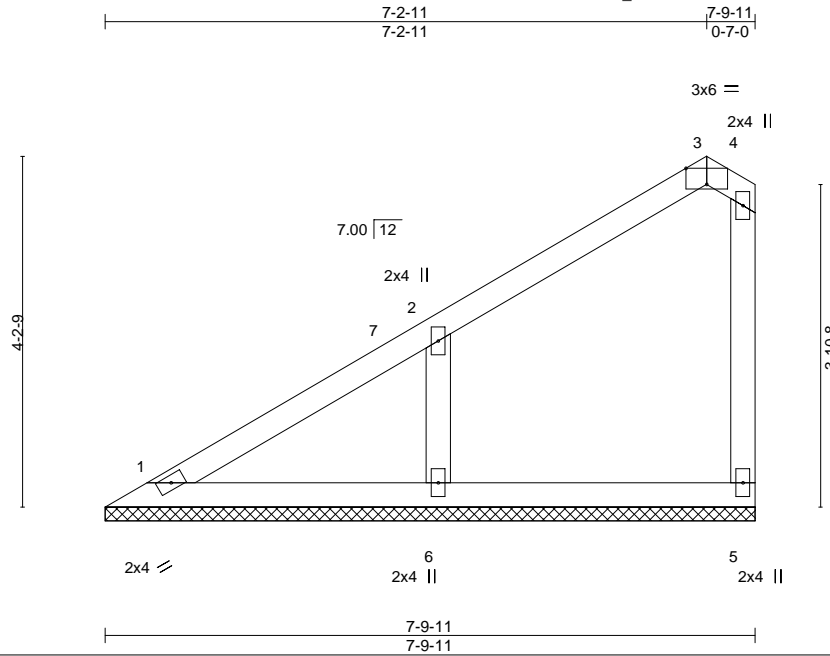


818 Soundside Road  
Edenton, NC 27932

Job PERMIT	Truss V04	Truss Type GABLE	Qty 1	Ply 1	MATTAMY HOMES/TETON Job Reference (optional)	155128486
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:25 2022 Page 1  
ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-XnZ2vrSb?HasZkX1h2mIg8P15txUyDlMTv?VylLaEK



Scale = 1:27.7

Plate Offsets (X,Y)--	[3:0-3-0,Edge]						
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	n/a	-	n/a 999
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	n/a	-	n/a 999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	5	n/a n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S				
							<b>PLATES</b>
							MT20
							<b>GRIP</b>
							244/190
							Weight: 32 lb
							FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.3	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

**REACTIONS.** (size) 1=7-9-11, 5=7-9-11, 6=7-9-11  
 Max Horz 1=115(LC 9)  
 Max Uplift 5=8(LC 13), 6=68(LC 12)  
 Max Grav 1=117(LC 20), 5=120(LC 19), 6=344(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-6=-256/122

- 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=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 7-2-11, Exterior(2) 7-2-11 to 7-7-15 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) 5, 6.



November 7, 2022

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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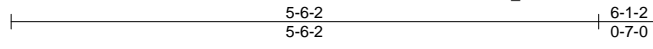
Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/TETON	155128487
PERMIT	V05	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:26 2022 Page 1

ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-?z7Q6BTDbiiAu6EF?Z?ruh2VE?DPbSb7eTXyLaEJ



Scale = 1:21.6

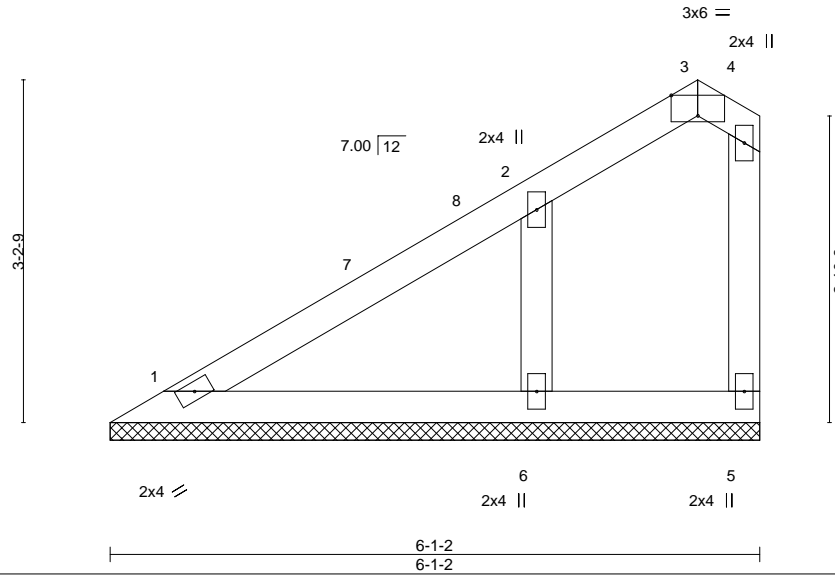


Plate Offsets (X,Y)--	[3:0-3:0,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.25	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 25 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** (size) 1=6-1-2, 5=6-1-2, 6=6-1-2  
 Max Horz 1=85(LC 11)  
 Max Uplift 5=5(LC 13), 6=56(LC 12)  
 Max Grav 1=112(LC 1), 5=32(LC 1), 6=293(LC 19)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 5-6-2, Exterior(2) 5-6-2 to 5-11-6 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) 5, 6.

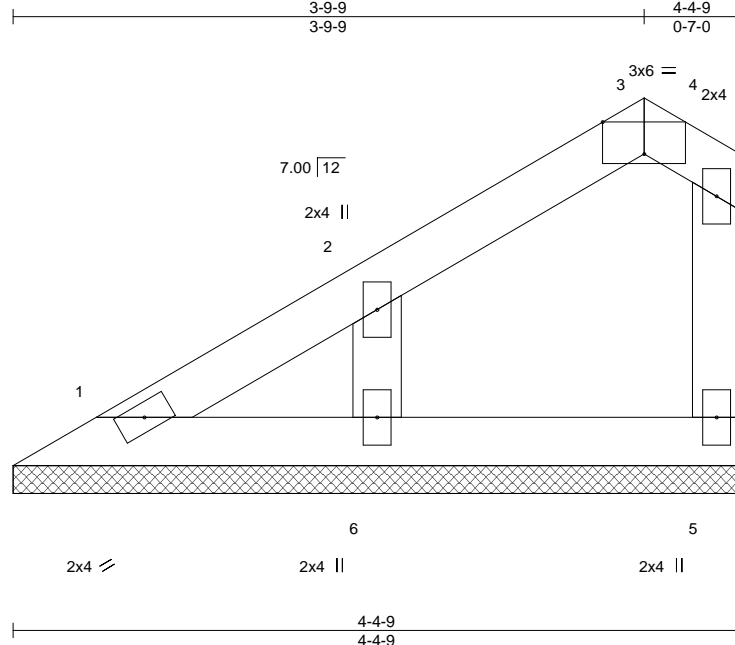


Job PERMIT	Truss V06	Truss Type VALLEY	Qty 1	Ply 1	MATTAMY HOMES/TETON	155128488
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:27 2022 Page 1

ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-UAhoJXUrXvqZo2hQoj4EO5DoWuciyS8bqnO03OyLaEI



Scale = 1:13.9

Plate Offsets (X,Y)--	[3:0-3-0,Edge]								
<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 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 17 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.3	TOP CHORD	Structural wood sheathing directly applied or 4-4-9 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

**REACTIONS.** (size) 1=4-4-9, 5=4-4-9, 6=4-4-9  
 Max Horz 1=54(LC 11)  
 Max Uplift 5=-3(LC 13), 6=-31(LC 12)  
 Max Grav 1=56(LC 20), 5=71(LC 1), 6=173(LC 19)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) 5, 6.

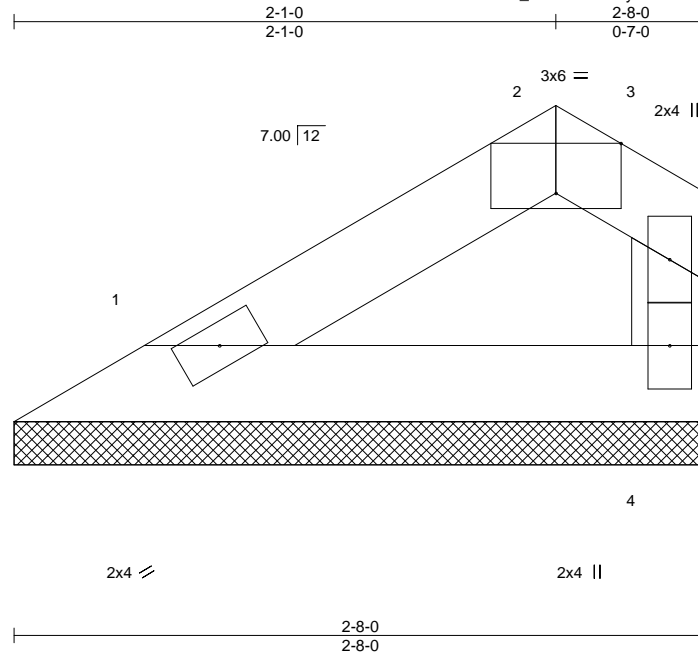


Job PERMIT	Truss V07	Truss Type VALLEY	Qty 1	Ply 1	MATTAMY HOMES/TETON	155128489
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 12:20:28 2022 Page 1  
ID:k9haJc8HLGnwac5Ci\_Kow4znDcS-yMFAXsVTICyQQBGcMQcTwJm\_alyxJml2R7ZcqyLaEH



Scale = 1:8.9

Plate Offsets (X,Y)--	[2:0-3-0,Edge]									
<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 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-R						Weight: 9 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.3	TOP CHORD	Structural wood sheathing directly applied or 2-8-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

**REACTIONS.** (size) 1=2-8-0, 4=2-8-0  
 Max Horz 1=24(LC 9)  
 Max Uplift 1=3(LC 12), 4=5(LC 12)  
 Max Grav 1=79(LC 1), 4=79(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; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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, 4.

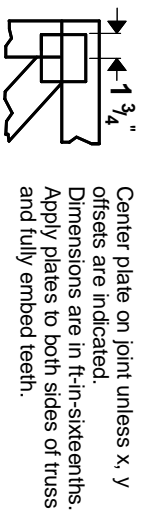


November 7, 2022

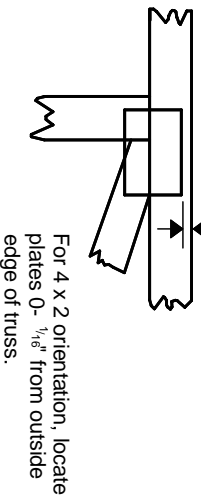


# Symbols

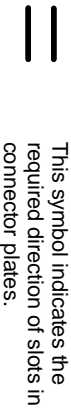
## PLATE LOCATION AND ORIENTATION



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.



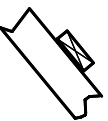
This symbol indicates the required direction of slots in connector plates.

## PLATE SIZE

4 X 4

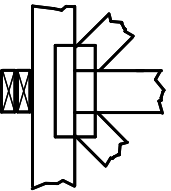
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

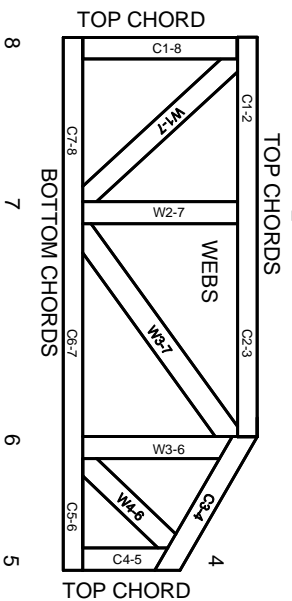


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TFP 1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988  
ESR-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/TFP 1 section 6.3 These truss designs rely on lumber values established by others.

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Mitek Engineering Reference Sheet: MIT-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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.