

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: TH157-R  
Chesapeake-6260D:Lot157 TheFarms

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource (Apex,NC).

Pages or sheets covered by this seal: I68496469 thru I68496501

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



September 27, 2024

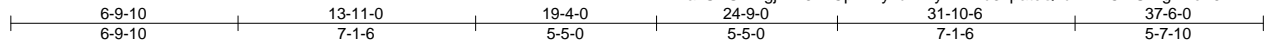
Gilbert, Eric

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



Job TH157-R	Truss A02H	Truss Type ROOF TRUSS	Qty 1	Ply 1	Chesapeake-6260D:Lot157 TheFarms Job Reference (optional)	6830 s Mar 9 2023 MiTek Industries, Inc. Thu Sep 26 10:08:25 2024 Page 1 ID:hazSNSvRlgjAW5liYCphTxyvdPZ-ymfFBd3vpatcQvdVEMCMUWgKZcV5i?xkPK3?yryZo4K	168496470
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Builders FirstSource, Apex, NC 27523



5x6 =

Scale = 1:69.0

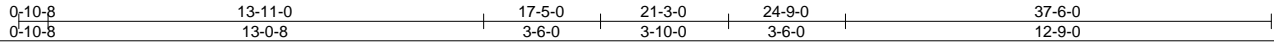
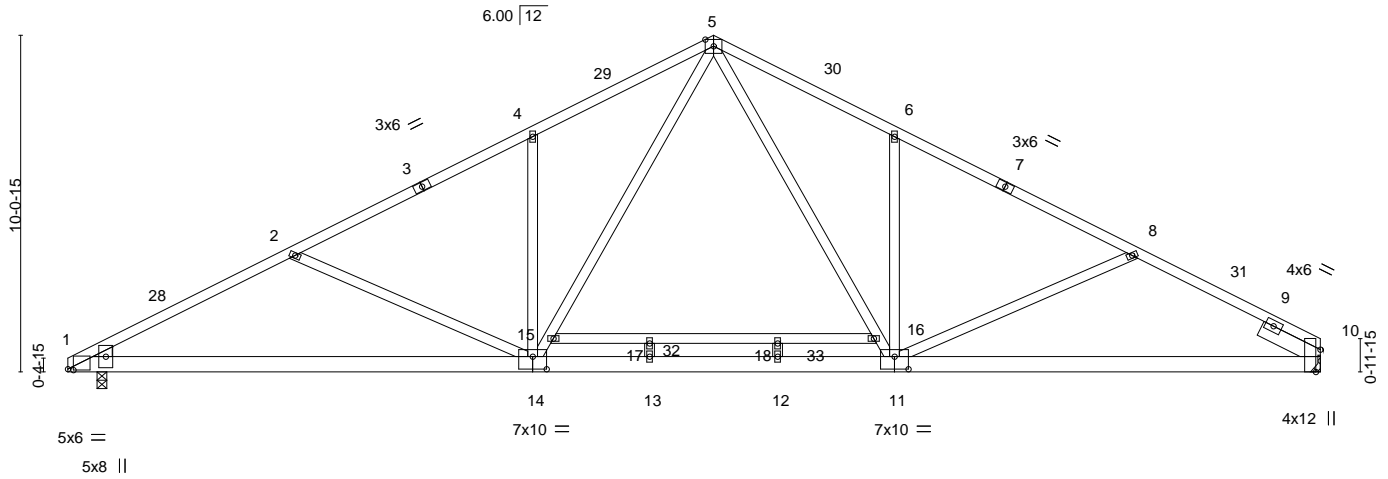


Plate Offsets (X,Y)-- [1:0-2-0,0-0-6], [10:0-8-0,Edge], [11:0-5-0,0-4-8], [14:0-5-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.88	Vert(LL)	-0.31	12-13	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.97	Vert(CT)	-0.47	12-13	>961		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.69	Horz(CT)	0.09	10	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Wind(LL)	0.14	12-13	>999		
	Code IRC2015/TPI2014						Weight: 246 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 7-10: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-7-6 oc purlins.
BOT CHORD 2x6 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	
SLIDER Right 2x6 SP No.2 1-11-12	

**REACTIONS.** (lb/size) 10=1464/Mechanical, 1=1536/0-3-8 (min. 0-1-13)  
Max Horz 1=151(LC 12)  
Max Uplift 10=-89(LC 13), 1=-99(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-28=-2502/197, 2-28=-2374/222, 2-3=-2117/132, 3-4=-2011/153, 4-29=-2115/232,  
5-29=-2026/258, 5-30=-2007/258, 6-30=-2097/232, 6-7=-1989/159, 7-8=-2095/138,  
8-31=-2352/212, 9-31=-2393/191, 9-10=-916/0  
BOT CHORD 1-14=-269/2164, 13-14=0/1341, 12-13=0/1341, 11-12=0/1341, 10-11=-123/2072  
WEBS 5-16=-174/889, 11-16=-173/893, 6-11=-441/216, 8-11=-337/190, 14-15=-170/925,  
5-15=-172/920, 4-14=-432/216, 2-14=-405/206

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 19-4-0, Exterior(2) 19-4-0 to 22-4-0, Interior(1) 22-4-0 to 37-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are 2x4 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 10 and 99 lb uplift at joint 1.
  - 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.
  - N/A

**LOAD CASE(S)**



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Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)



818 Soundside Road  
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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	I68496470
TH157-R	A02H	ROOF TRUSS	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Thu Sep 26 10:08:26 2024 Page 2  
ID:hazSNSvRlgjAW5iiYChpTxyvdPZ-QyCdOz4Xau?T23Cho3jc0jDVJ0rKRSBte\_pYUlyZo4J

**LOAD CASE(S)**

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-60, 5-10=-60, 19-23=-20
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-50, 5-10=-50, 19-23=-20, 32-33=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-5=-20, 5-10=-20, 19-23=-40, 32-33=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-28=25, 5-28=14, 5-30=25, 10-30=14, 19-23=-12  
Horz: 1-28=-37, 5-28=-26, 5-30=37, 10-30=26
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-29=14, 5-29=25, 5-31=14, 10-31=25, 19-23=-12  
Horz: 1-29=-26, 5-29=-37, 5-31=26, 10-31=37
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-33, 5-10=-33, 19-23=-20  
Horz: 1-5=13, 5-10=-13
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-33, 5-10=-33, 19-23=-20  
Horz: 1-5=13, 5-10=-13
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-2, 5-10=9, 19-23=-12  
Horz: 1-5=-10, 5-10=21
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=9, 5-10=-2, 19-23=-12  
Horz: 1-5=-21, 5-10=10
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-20, 5-10=-9, 19-23=-20  
Horz: 1-5=-0, 5-10=11
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-9, 5-10=-20, 19-23=-20  
Horz: 1-5=-11, 5-10=0
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=22, 5-10=7, 19-23=-12  
Horz: 1-5=-34, 5-10=19
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=7, 5-10=22, 19-23=-12  
Horz: 1-5=-19, 5-10=34
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=11, 5-10=3, 19-23=-12  
Horz: 1-5=-23, 5-10=15
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=3, 5-10=11, 19-23=-12  
Horz: 1-5=-15, 5-10=23
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=4, 5-10=-11, 19-23=-20  
Horz: 1-5=-24, 5-10=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-11, 5-10=4, 19-23=-20  
Horz: 1-5=-9, 5-10=24
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90  
Uniform Loads (plf)  
Vert: 1-5=-20, 5-10=-20, 19-23=-20, 32-33=-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: 1-5=-50, 5-10=-42, 19-23=-20, 32-33=-30  
Horz: 1-5=-0, 5-10=8
- 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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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	I68496470
TH157-R	A02H	ROOF TRUSS	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Thu Sep 26 10:08:26 2024 Page 3  
 ID:hazSNSvRlgjAW5iiYcPhTxyvdPZ-QyCdOz4Xau?T23Cho3jc0jDVJ0rKRSBte\_pYUlyZoJ

**LOAD CASE(S)**

- Uniform Loads (plf)
  - Vert: 1-5=-42, 5-10=-50, 19-23=-20, 32-33=-30
  - Horz: 1-5=-8, 5-10=0
- 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: 1-5=-32, 5-10=-43, 19-23=-20, 32-33=-30
    - Horz: 1-5=-18, 5-10=7
- 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: 1-5=-43, 5-10=-32, 19-23=-20, 32-33=-30
    - Horz: 1-5=-7, 5-10=18
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-5=-60, 5-10=-20, 19-23=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-5=-20, 5-10=-60, 19-23=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-5=-50, 5-10=-20, 19-23=-20, 32-33=-30
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-5=-20, 5-10=-50, 19-23=-20, 32-33=-30

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	68496471
TH157-R	A02HT	ROOF TRUSS	2	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MITek Industries, Inc. Thu Sep 26 10:09:47 2024 Page 1  
 ID:hazSNSvRlgjAW5liYCphTxyvdPZ-YXcFOi3KVmD\_FVuf1agboo4lGUuw6aoG5wLr5yZo32

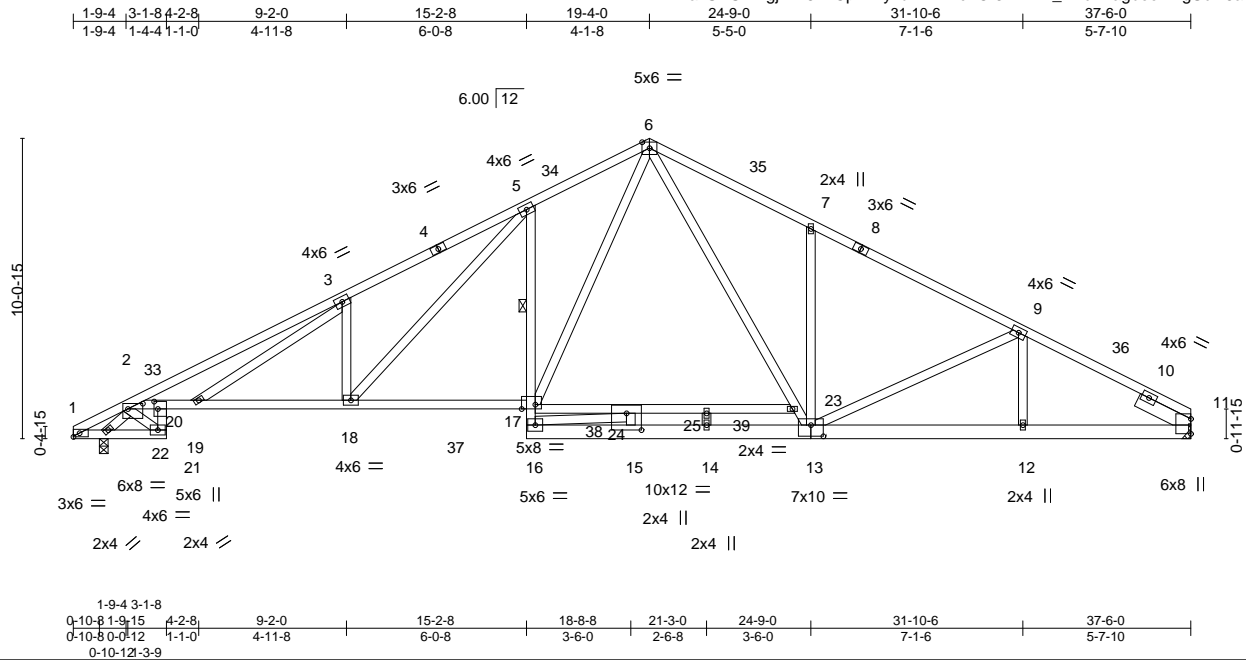


Plate Offsets (X,Y)--	[2:0-6-0,0-2-3], [13:0-5-0,0-4-8], [17:0-5-8,Edge], [20:0-3-0,0-1-8], [24:0-6-0,0-6-12]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.98	Vert(LL) -0.21 17-18 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 1.00	Vert(CT) -0.43 17-18 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.54	Horz(CT) 0.24 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.16 17-18 >999 240		
				Weight: 261 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2 \*Except\*  
 1-4: 2x4 SP No.1  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 2-17: 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS  
 5-16: 2x4 SP No.3, 13-16: 2x6 SP No.2  
 11-13: 2x6 SP 2400F 2.0E or 2x6 SP DSS  
 WEBS 2x4 SP No.3 \*Except\*  
 17-23: 2x4 SP No.2  
 SLIDER Right 2x6 SP No.2 1-11-12

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:  
 1 Row at midpt 5-17

**REACTIONS.** (lb/size) 11=1459/Mechanical, 22=1541/0-3-8 (min. 0-1-13)  
 Max Horz 22=151(LC 12)  
 Max Uplift 11=-89(LC 13), 22=-99(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-33=-3942/347, 3-33=-3859/380, 3-4=-2978/301, 4-5=-2886/331, 5-34=-2112/236,  
 6-34=-2063/255, 6-35=-1971/268, 7-35=-2060/242, 7-8=-1888/169, 8-9=-2060/149,  
 9-36=-2229/159, 10-36=-2326/144, 10-11=-1059/0  
 BOT CHORD 21-22=-247/1298, 20-21=-215/1254, 2-20=-325/3232, 19-20=-383/3452, 18-19=-234/2604,  
 18-37=-77/1865, 17-37=-79/1863, 16-17=0/254, 5-17=-731/246, 15-16=0/1341,  
 14-15=0/1341, 13-14=0/1341, 12-13=-82/2027, 11-12=-82/2027  
 WEBS 3-18=-612/239, 5-18=-218/1085, 6-17=-174/1077, 6-23=-193/780, 13-23=-196/817,  
 7-13=-427/208, 9-13=-335/135, 17-38=0/1237, 24-38=0/1234, 16-24=-1179/0,  
 2-21=-1598/286, 3-19=-184/1043, 2-22=-1865/170

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 19-4-0, Exterior(2) 19-4-0 to 22-4-0, Interior(1) 22-4-0 to 37-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 11 and 99 lb uplift at joint 22.
  - 7) 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.
  - 8) N/A



September 27, 2024

Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	168496471
TH157-R	A02HT	ROOF TRUSS	2	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Thu Sep 26 10:09:47 2024 Page 2  
 ID:hazSNSvRIgjAW5IiYcPhTxyvdPZ-YXcFOi3KvM\_D\_FVuf1agboo4ILgUuw6aoG5wLr5yZo32

**LOAD CASE(S)**

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-6=-60, 6-11=-60, 21-26=-20, 17-20=-20, 16-29=-20
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-6=-50, 6-11=-50, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-6=-20, 6-11=-20, 21-26=-40, 17-20=-40, 16-29=-40, 38-39=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-33=25, 6-33=14, 6-35=25, 11-35=14, 22-26=18, 21-22=-12, 17-20=-12, 16-29=-12  
 Horz: 1-33=-37, 6-33=-26, 6-35=37, 11-35=26
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-34=14, 6-34=25, 6-36=14, 11-36=25, 22-26=18, 21-22=-12, 17-20=-12, 16-29=-12  
 Horz: 1-34=-26, 6-34=-37, 6-36=26, 11-36=37
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=-33, 6-11=-33, 22-26=-15, 21-22=-20, 17-20=-20, 16-29=-20  
 Horz: 1-6=13, 6-11=-13
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=-33, 6-11=-33, 22-26=-15, 21-22=-20, 17-20=-20, 16-29=-20  
 Horz: 1-6=13, 6-11=-13
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=-2, 6-11=9, 22-26=4, 21-22=-12, 17-20=-12, 16-29=-12  
 Horz: 1-6=-10, 6-11=21
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=9, 6-11=-2, 21-26=-12, 17-20=-12, 16-29=-12  
 Horz: 1-6=-21, 6-11=10
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=-20, 6-11=-9, 22-26=-4, 21-22=-20, 17-20=-20, 16-29=-20  
 Horz: 1-6=-0, 6-11=11
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=-9, 6-11=-20, 21-26=-20, 17-20=-20, 16-29=-20  
 Horz: 1-6=-11, 6-11=0
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=22, 6-11=7, 21-26=-12, 17-20=-12, 16-29=-12  
 Horz: 1-6=-34, 6-11=19
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=7, 6-11=22, 21-26=-12, 17-20=-12, 16-29=-12  
 Horz: 1-6=-19, 6-11=34
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=11, 6-11=3, 21-26=-12, 17-20=-12, 16-29=-12  
 Horz: 1-6=-23, 6-11=15
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=3, 6-11=11, 21-26=-12, 17-20=-12, 16-29=-12  
 Horz: 1-6=-15, 6-11=23
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=4, 6-11=-11, 21-26=-20, 17-20=-20, 16-29=-20  
 Horz: 1-6=-24, 6-11=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-6=-11, 6-11=4, 21-26=-20, 17-20=-20, 16-29=-20  
 Horz: 1-6=-9, 6-11=24
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-6=-20, 6-11=-20, 21-26=-20, 20-37=-20, 17-37=-60, 16-29=-20, 38-39=-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: 1-6=-50, 6-11=-42, 22-26=-8, 21-22=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30  
 Horz: 1-6=-0, 6-11=8
- 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	Chesapeake-6260D:Lot157 TheFarms	I68496471
TH157-R	A02HT	ROOF TRUSS	2	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Thu Sep 26 10:09:47 2024 Page 3  
 ID:hazSNSvRlgjAW5liYCphTxyvdPZ-YXcFOf3KVMd\_FVuF1agboo4ILgUuw6aoG5wLr5yZo32

**LOAD CASE(S)**

- Uniform Loads (plf)
  - Vert: 1-6=-42, 6-11=-50, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
  - Horz: 1-6=-8, 6-11=0
- 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: 1-6=-32, 6-11=-43, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
    - Horz: 1-6=-18, 6-11=7
- 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: 1-6=-43, 6-11=-32, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
    - Horz: 1-6=-7, 6-11=18
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-60, 6-11=-20, 21-26=-20, 17-20=-20, 16-29=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-20, 6-11=-60, 21-26=-20, 17-20=-20, 16-29=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-50, 6-11=-20, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-20, 6-11=-50, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30

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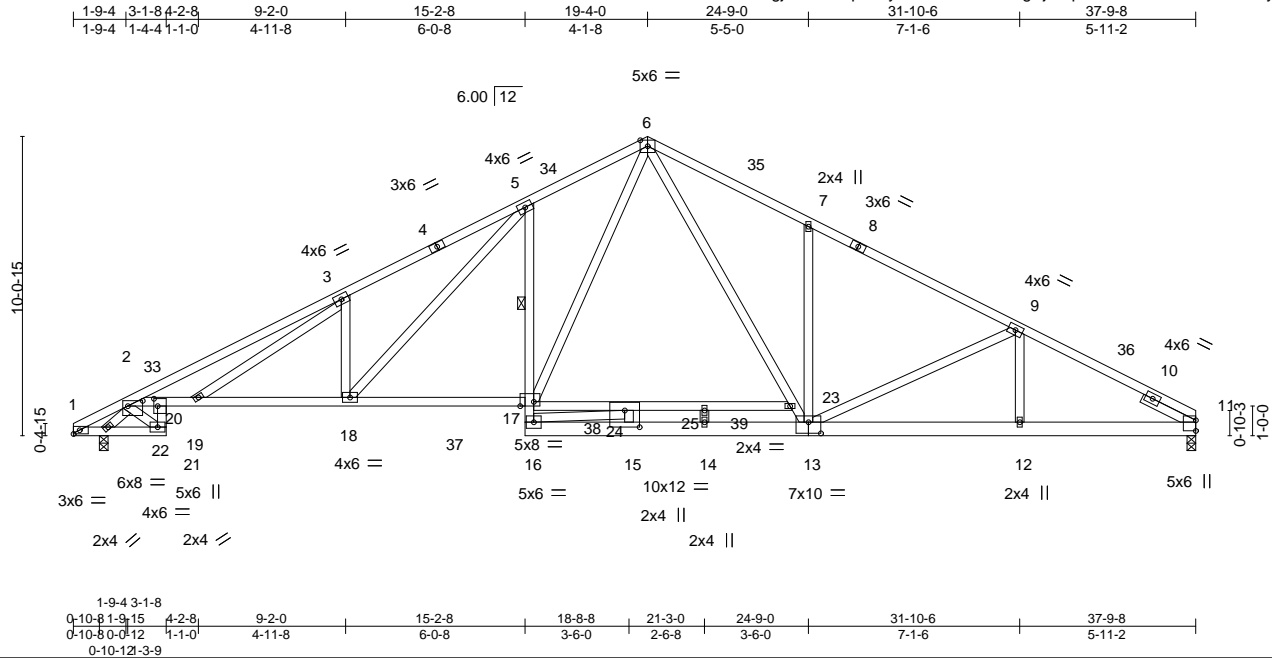
818 Soundside Road  
 Edenton, NC 27932



Job TH157-R	Truss A03HT	Truss Type ROOF TRUSS	Qty 1	Ply 1	Chesapeake-6260D:Lot157 TheFarms Job Reference (optional)	168496472
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Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MITek Industries, Inc. Thu Sep 26 10:09:59 2024 Page 1  
ID:hazSNSvRlgjAW5iYcPhTxyvdPZ-CrKnmCsgSjHlPzK5uPHKaM8VaaKXCZ1yqzFPyZo2s



Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	168496472
TH157-R	A03HT	ROOF TRUSS	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Thu Sep 26 10:09:59 2024 Page 2  
ID:hazSNSvRIgjAW5iiYCphTxyvdPZ-CrKnmvCsgSjHlPzK5uPHKaM8VaaKXCZ1yqzFPyZo2s

**LOAD CASE(S)**

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-60, 6-11=-60, 21-26=-20, 17-20=-20, 16-29=-20
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-50, 6-11=-50, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-11=-20, 21-26=-40, 17-20=-40, 16-29=-40, 38-39=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-33=25, 6-33=14, 6-35=25, 11-35=14, 22-26=18, 21-22=-12, 17-20=-12, 16-29=-12  
Horz: 1-33=-37, 6-33=-26, 6-35=37, 11-35=26
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-34=14, 6-34=25, 6-36=14, 11-36=25, 22-26=18, 21-22=-12, 17-20=-12, 16-29=-12  
Horz: 1-34=-26, 6-34=-37, 6-36=26, 11-36=37
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-33, 6-11=-33, 22-26=-15, 21-22=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=13, 6-11=-13
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-33, 6-11=-33, 22-26=-15, 21-22=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=13, 6-11=-13
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-2, 6-11=9, 22-26=4, 21-22=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-10, 6-11=21
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=9, 6-11=-2, 21-26=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-21, 6-11=10
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-11=-9, 22-26=-4, 21-22=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=-0, 6-11=11
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-9, 6-11=-20, 21-26=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=-11, 6-11=0
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=22, 6-11=7, 21-26=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-34, 6-11=19
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=7, 6-11=22, 21-26=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-19, 6-11=34
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=11, 6-11=3, 21-26=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-23, 6-11=15
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=3, 6-11=11, 21-26=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-15, 6-11=23
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=4, 6-11=-11, 21-26=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=-24, 6-11=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-11, 6-11=4, 21-26=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=-9, 6-11=24
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-11=-20, 21-26=-20, 20-37=-20, 17-37=-60, 16-29=-20, 38-39=-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: 1-6=-50, 6-11=-42, 22-26=-8, 21-22=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30  
Horz: 1-6=-0, 6-11=8
- 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	Chesapeake-6260D:Lot157 TheFarms	I68496472
TH157-R	A03HT	ROOF TRUSS	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Thu Sep 26 10:09:59 2024 Page 3  
 ID:hazSNSvRlgjAW5iiYCphTxyvdPZ-CrKnvmCsgSjHlPzK5uPHKaM8VaaKXCZ1yqzFPyZo2s

**LOAD CASE(S)**

- Uniform Loads (plf)
  - Vert: 1-6=-42, 6-11=-50, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
  - Horz: 1-6=-8, 6-11=0
- 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: 1-6=-32, 6-11=-43, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
    - Horz: 1-6=-18, 6-11=7
- 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: 1-6=-43, 6-11=-32, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
    - Horz: 1-6=-7, 6-11=18
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-60, 6-11=-20, 21-26=-20, 17-20=-20, 16-29=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-20, 6-11=-60, 21-26=-20, 17-20=-20, 16-29=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-50, 6-11=-20, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-20, 6-11=-50, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30

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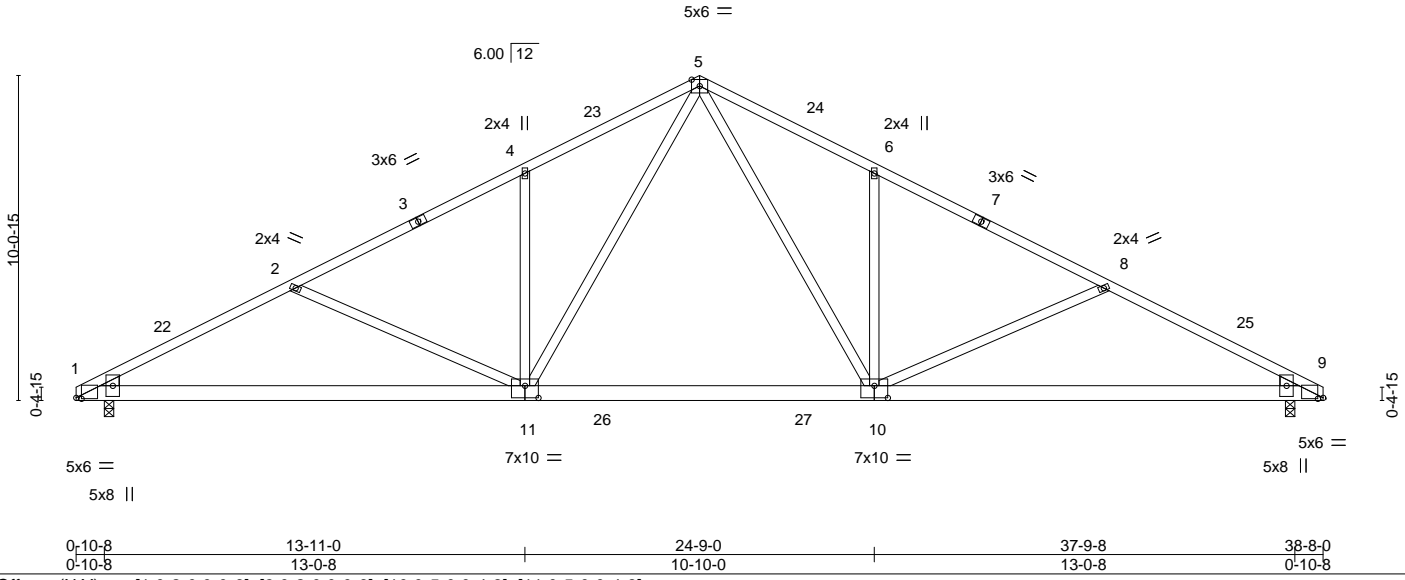
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	168496473
TH157-R	A04	ROOF TRUSS	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:30 2024 Page 1

ID:hazSNSvRlgjAW5liYcphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCdoi7J4zJC?f



Scale = 1:71.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.89	Vert(LL) -0.36 10-11 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.49	Vert(CT) -0.53 10-11 >880 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.07 9 n/a n/a		
	Code IRC2015/TP12014		Wind(LL) 0.15 10-11 >999 240	Weight: 231 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-3-8, 9=0-3-8  
Max Horz 1=140(LC 17)  
Max Uplift 1=99(LC 12), 9=99(LC 13)  
Max Grav 1=1547(LC 1), 9=1547(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-2525/223, 2-4=-2142/155, 4-5=-2139/259, 5-6=-2139/259, 6-8=-2142/155, 8-9=-2525/223  
BOT CHORD 1-11=-258/2184, 10-11=0/1392, 9-10=-119/2184  
WEBS 5-10=-174/922, 6-10=-432/215, 8-10=-404/206, 5-11=-174/922, 4-11=-432/216, 2-11=-404/205

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 19-4-0, Exterior(2) 19-4-0 to 22-4-0, Interior(1) 22-4-0 to 38-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 1 and 99 lb uplift at joint 9.



September 27, 2024

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

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	168496474
TH157-R	A04HT	ROOF TRUSS	2	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MITek Industries, Inc. Thu Sep 26 10:10:42 2024 Page 1  
 ID:hazSNSvRlgjAW5iYcPhTxyvdPZ-R7Q1xTjqYg8AMyqldAVXPsilrGeJ\_uw9iIGPyZo2B

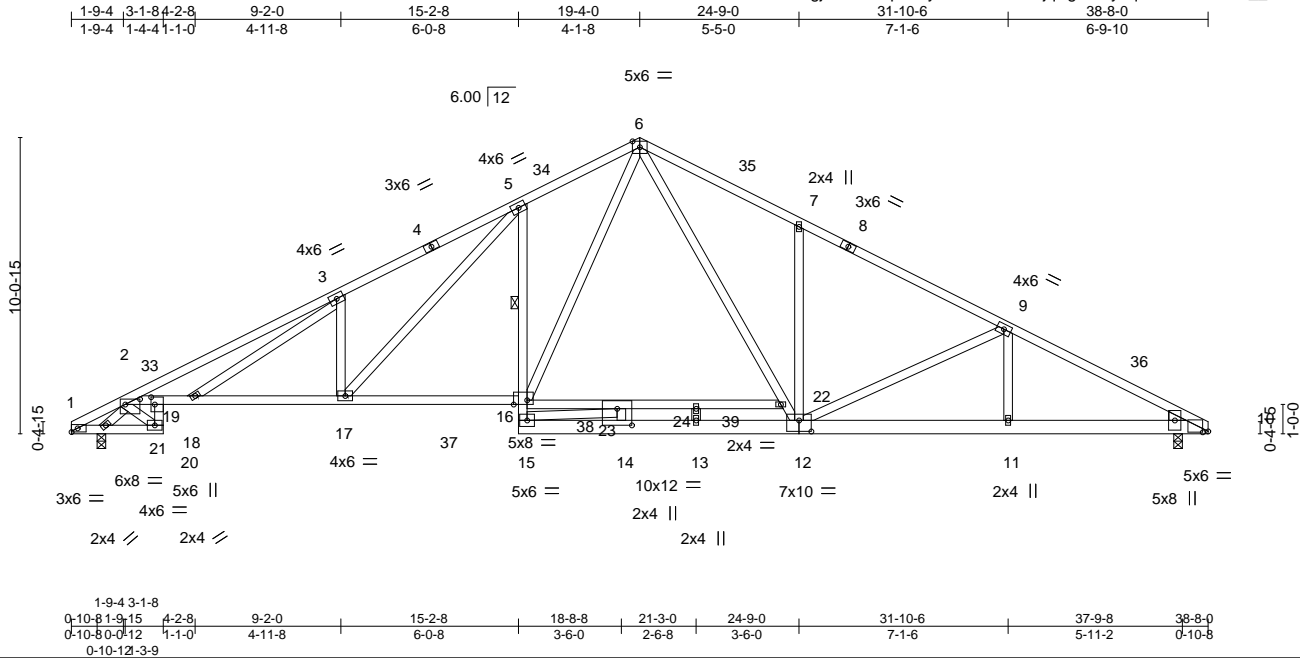


Plate Offsets (X,Y)-- [2:0-6-0,0-2-3], [10:0-2-4,0-0-6], [12:0-5-0,0-4-8], [16:0-5-8,Edge], [19:0-3-0,0-1-8], [23:0-6-0,0-6-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.99	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 1.00	Vert(LL) -0.21 16-17 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.56	Vert(CT) -0.43 16-17 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.24 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.16 16-17 >999 240	Weight: 262 lb	FT = 20%

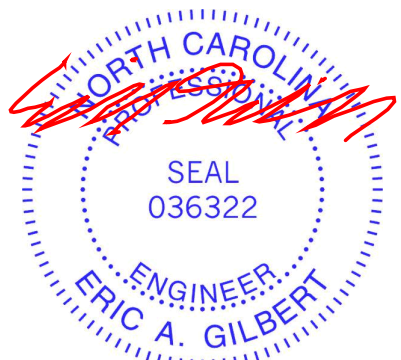
**LUMBER-**  
 TOP CHORD 2x4 SP No.2 \*Except\*  
 1-4,8-10: 2x4 SP No.1  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 2-16: 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS  
 5-15: 2x4 SP No.3, 12-15: 2x6 SP No.2  
 10-12: 2x6 SP 2400F 2.0E or 2x6 SP DSS  
 WEBS 2x4 SP No.3 \*Except\*  
 16-22: 2x4 SP No.2  
 WEDGE  
 Right: 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:  
 1 Row at midpt 5-16

**REACTIONS.** (lb/size) 21=1552/0-3-8 (min. 0-1-13), 10=1542/0-3-8 (min. 0-1-13)  
 Max Horz 21=140(LC 13)  
 Max Uplift 21=99(LC 12), 10=99(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-33=-3973/336, 3-33=-3891/370, 3-4=-3005/297, 4-5=-2913/328, 5-34=-2135/235,  
 6-34=-2087/254, 6-35=-2008/270, 7-35=-2095/244, 7-8=-1928/167, 8-9=-2100/148,  
 9-36=-2339/165, 10-36=-2471/145  
 BOT CHORD 20-21=-236/1307, 19-20=-204/1264, 2-19=-305/3259, 18-19=-363/3480, 17-18=-220/2628,  
 17-37=-65/1886, 16-37=-66/1884, 15-16=0/255, 5-16=-731/245, 14-15=0/1360,  
 13-14=0/1360, 12-13=0/1360, 11-12=-71/2140, 10-11=-71/2140  
 WEBS 3-17=-613/238, 5-17=-215/1088, 6-16=-172/1079, 6-22=-196/801, 12-22=-198/838,  
 7-12=-417/205, 9-12=-413/142, 16-38=0/1253, 23-38=0/1251, 15-23=-1194/0,  
 2-20=-1610/272, 3-18=-176/1048, 2-21=-1878/170

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 19-4-0, Exterior(2) 19-4-0 to 22-4-0, Interior(1) 22-4-0 to 38-8-0 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, with BCDL = 10.0psf.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 21 and 99 lb uplift at joint 10.
  - 6) 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.
  - 7) N/A



September 27, 2024

Continued on page 2

**LOAD CASE(S)** Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	I68496474
TH157-R	A04HT	ROOF TRUSS	2	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MITek Industries, Inc. Thu Sep 26 10:10:42 2024 Page 2  
ID:hazSNSvRlgjAW5iYCPhtXyvdpZ-R7Q1xTjYg8AMyBqldAVXPsirGeJ\_uw9iIGPyZo2B

**LOAD CASE(S)**

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-60, 6-10=-60, 20-25=-20, 16-19=-20, 15-28=-20
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-50, 6-10=-50, 20-25=-20, 19-37=-20, 16-37=-50, 15-28=-20, 38-39=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-10=-20, 20-25=-40, 16-19=-40, 15-28=-40, 38-39=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-33=25, 6-33=14, 6-35=25, 10-35=14, 21-25=18, 20-21=-12, 16-19=-12, 15-28=-12  
Horz: 1-33=-37, 6-33=-26, 6-35=37, 10-35=26
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-34=14, 6-34=25, 6-36=14, 10-36=25, 21-25=18, 20-21=-12, 16-19=-12, 15-28=-12  
Horz: 1-34=-26, 6-34=-37, 6-36=26, 10-36=37
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-33, 6-10=-33, 21-25=-15, 20-21=-20, 16-19=-20, 15-28=-20  
Horz: 1-6=13, 6-10=-13
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-33, 6-10=-33, 21-25=-15, 20-21=-20, 16-19=-20, 15-28=-20  
Horz: 1-6=13, 6-10=-13
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-2, 6-10=9, 21-25=4, 20-21=-12, 16-19=-12, 15-28=-12  
Horz: 1-6=-10, 6-10=21
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=9, 6-10=-2, 20-25=-12, 16-19=-12, 15-28=-12  
Horz: 1-6=-21, 6-10=10
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-10=-9, 21-25=-4, 20-21=-20, 16-19=-20, 15-28=-20  
Horz: 1-6=-0, 6-10=11
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-9, 6-10=-20, 20-25=-20, 16-19=-20, 15-28=-20  
Horz: 1-6=-11, 6-10=0
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=22, 6-10=7, 20-25=-12, 16-19=-12, 15-28=-12  
Horz: 1-6=-34, 6-10=19
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=7, 6-10=22, 20-25=-12, 16-19=-12, 15-28=-12  
Horz: 1-6=-19, 6-10=34
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=11, 6-10=3, 20-25=-12, 16-19=-12, 15-28=-12  
Horz: 1-6=-23, 6-10=15
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=3, 6-10=11, 20-25=-12, 16-19=-12, 15-28=-12  
Horz: 1-6=-15, 6-10=23
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=4, 6-10=-11, 20-25=-20, 16-19=-20, 15-28=-20  
Horz: 1-6=-24, 6-10=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-11, 6-10=4, 20-25=-20, 16-19=-20, 15-28=-20  
Horz: 1-6=-9, 6-10=24
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-10=-20, 20-25=-20, 19-37=-20, 16-37=-60, 15-28=-20, 38-39=-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: 1-6=-50, 6-10=-42, 21-25=-8, 20-21=-20, 19-37=-20, 16-37=-50, 15-28=-20, 38-39=-30  
Horz: 1-6=-0, 6-10=8
- 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

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacomponents.com](http://www.sbcacomponents.com))



818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	I68496474
TH157-R	A04HT	ROOF TRUSS	2	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Thu Sep 26 10:10:42 2024 Page 3  
 ID:hazSNSvRlgjAW5iiYCPHTxyvdPZ-R7Q1xTjqYg8AMyqldAVXPsirGeJ\_\_uw9ilGPYzo2B

**LOAD CASE(S)**

- Uniform Loads (plf)
  - Vert: 1-6=-42, 6-10=-50, 20-25=-20, 19-37=-20, 16-37=-50, 15-28=-20, 38-39=-30
  - Horz: 1-6=-8, 6-10=0
- 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: 1-6=-32, 6-10=-43, 20-25=-20, 19-37=-20, 16-37=-50, 15-28=-20, 38-39=-30
    - Horz: 1-6=-18, 6-10=7
- 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: 1-6=-43, 6-10=-32, 20-25=-20, 19-37=-20, 16-37=-50, 15-28=-20, 38-39=-30
    - Horz: 1-6=-7, 6-10=18
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-60, 6-10=-20, 20-25=-20, 16-19=-20, 15-28=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-20, 6-10=-60, 20-25=-20, 16-19=-20, 15-28=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-50, 6-10=-20, 20-25=-20, 19-37=-20, 16-37=-50, 15-28=-20, 38-39=-30
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-20, 6-10=-50, 20-25=-20, 19-37=-20, 16-37=-50, 15-28=-20, 38-39=-30

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacomponents.com](http://www.sbcacomponents.com))



818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	I68496475
TH157-R	A07G	GABLE	2	1	Job Reference (optional)	

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

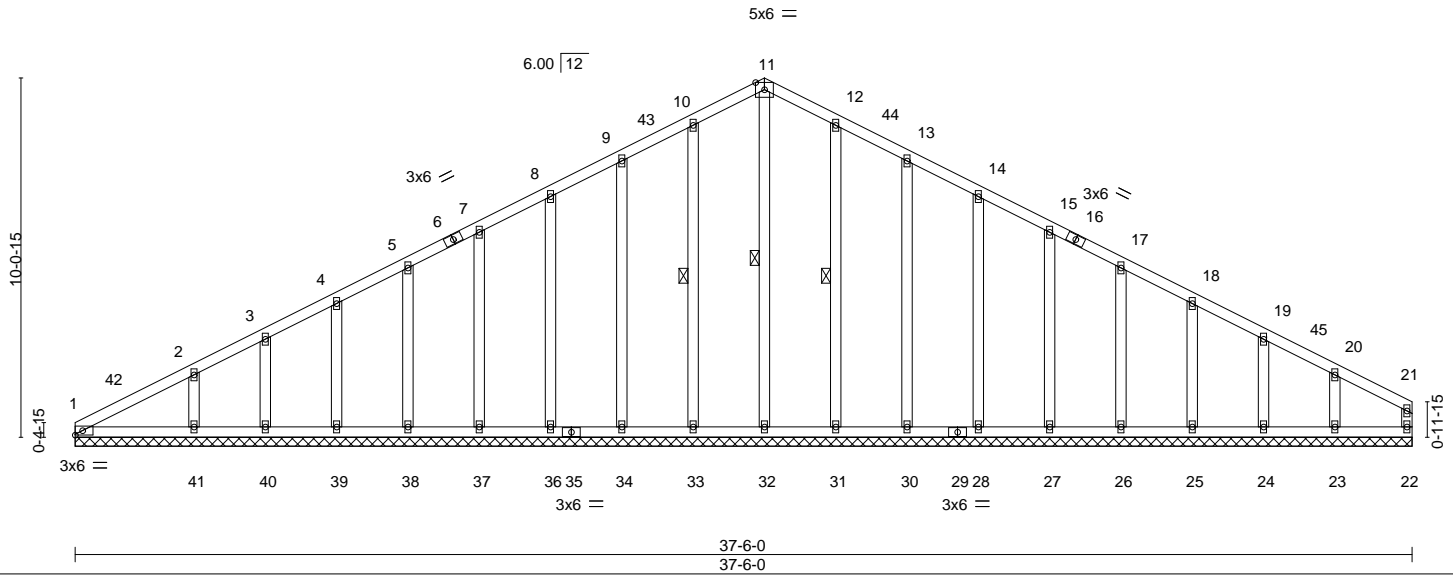
8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:32 2024 Page 1

ID:hazSNSvRlgjAW5iiYcPhTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

19-4-0  
19-4-0

37-6-0  
18-2-0

Scale: 3/16"=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 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.00	22	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 253 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	WEBS 1 Row at midpt 11-32, 10-33, 12-31
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 37-6-0.  
 (lb) - Max Horz 1=144(LC 16)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 33, 34, 36, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, 23  
 Max Grav All reactions 250 lb or less at joint(s) 1, 22, 32, 33, 34, 36, 37, 38, 39, 40, 31, 30, 28, 27, 26, 25, 24, 23 except 41=272(LC 23)

**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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 19-4-0, Exterior(2) 19-4-0 to 22-4-0, Interior(1) 22-4-0 to 37-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 33, 34, 36, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, 23.



September 27, 2024



Job TH157-R	Truss B02	Truss Type COMMON	Qty 1	Ply 1	Chesapeake-6260D:Lot157 TheFarms Job Reference (optional)	I68496476
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:33 2024 Page 1

ID:hazSNSvRlgjAW5IiYcPhTxvvdPZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f



4x6 ||

Scale = 1:59.5

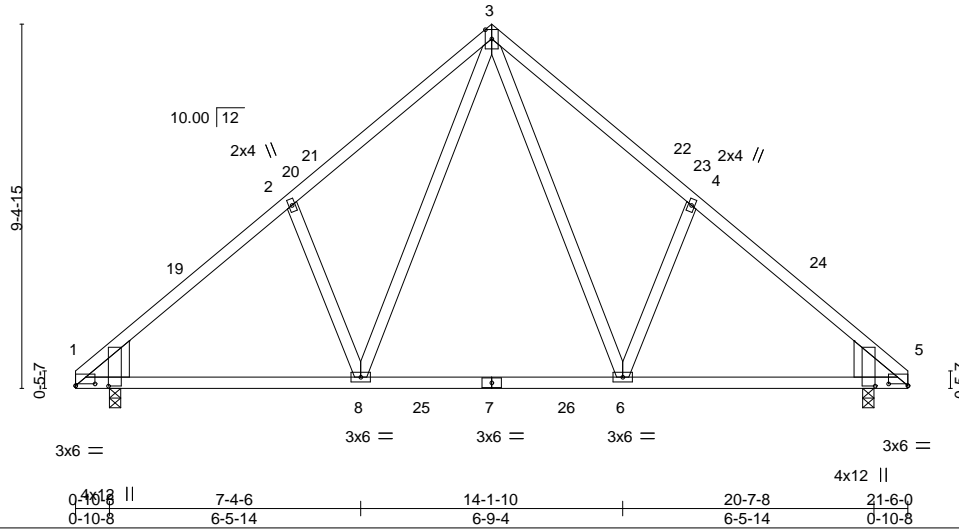


Plate Offsets (X,Y)-- [1:0-6-0,0-0-9], [1:0-0-2,0-10-3], [5:0-6-0,0-0-9], [5:0-0-2,0-10-3]

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 0.49	Vert(LL)	-0.15	6-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.23	6-8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.02	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.02	6-8	>999		
								Weight: 127 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 WEDGE  
 Left: 2x12 SP DSS or 2400F 2.0E , Right: 2x12 SP DSS or 2400F 2.0E

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-6-3 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-3-8, 5=0-3-8  
 Max Horz 1=-192(LC 8)  
 Max Uplift 1=-2(LC 12), 5=-2(LC 13)  
 Max Grav 1=860(LC 1), 5=860(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-890/98, 2-3=-802/183, 3-4=-803/183, 4-5=-890/98  
 BOT CHORD 1-8=-44/715, 6-8=0/493, 5-6=0/615  
 WEBS 3-6=-98/406, 3-8=-98/406

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-9-0, Exterior(2) 10-9-0 to 14-11-15, Interior(1) 14-11-15 to 21-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



September 27, 2024

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	168496477
TH157-R	B03GR	DBL. HOWE	1	2	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:33 2024 Page 1

ID:hazSNSvRlgjAW5liYcPhTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



5x8 ||

Scale = 1:59.4

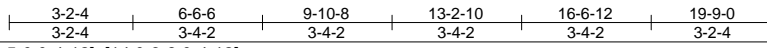
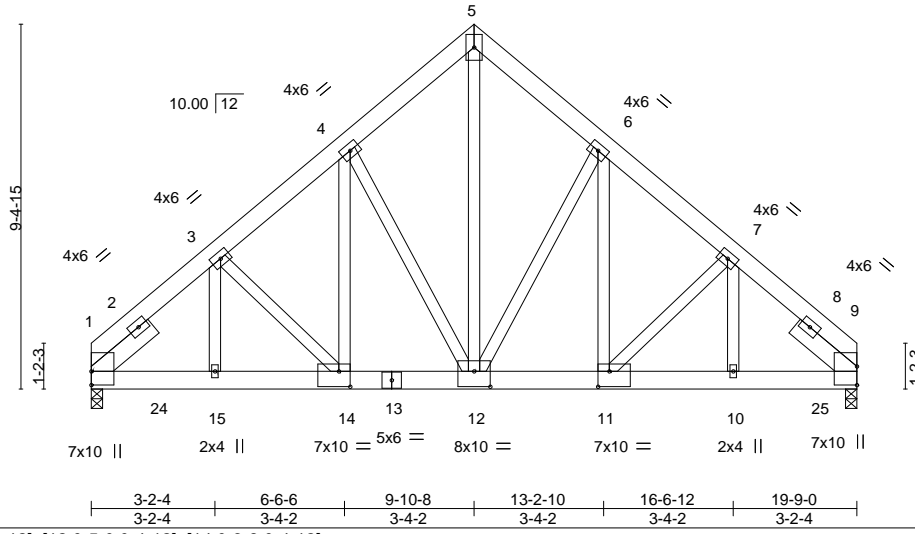


Plate Offsets (X,Y)-- [11:0-3-8,0-4-12], [12:0-5-0,0-4-12], [14:0-3-8,0-4-12]

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 0.53	Vert(LL) -0.08 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.88	Vert(CT) -0.17 12-14 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.05 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.07 12-14 >999 240	Weight: 374 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins.
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-12: 2x4 SP No.2	
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

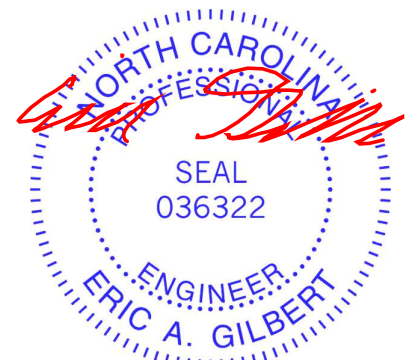
SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

**REACTIONS.** (size) 1=0-3-8 (req. 0-4-5), 9=0-3-8 (req. 0-4-5)  
 Max Horz 1=-177(LC 6)  
 Max Uplift 1=-803(LC 8), 9=-803(LC 9)  
 Max Grav 1=7278(LC 1), 9=7278(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-8528/965, 3-4=-7455/890, 4-5=-5900/773, 5-6=-5900/773, 6-7=-7455/890, 7-9=-8528/966  
 BOT CHORD 1-15=-763/6111, 14-15=-763/6111, 12-14=-658/5762, 11-12=-606/5762, 10-11=-661/6111, 9-10=-661/6111  
 WEBS 3-15=-151/1505, 4-14=-363/3006, 5-12=-899/7151, 6-11=-363/3006, 7-10=-152/1505, 3-14=-521/148, 4-12=-2568/410, 6-12=-2568/411, 7-11=-522/149

- NOTES-**
- 1) N/A
  - 2) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - 3) 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.
  - 4) Unbalanced roof live loads have been considered for this design.
  - 5) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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
  - 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) WARNING: Required bearing size at joint(s) 1, 9 greater than input bearing size.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=803, 9=803.

**LOAD CASE(S)** Standard



September 27, 2024

Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

Job TH157-R	Truss B03GR	Truss Type DBL. HOWE	Qty 1	Ply <b>2</b>	Chesapeake-6260D:Lot157 TheFarms Job Reference (optional)	I68496477
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:33 2024 Page 2  
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 16-24=-20, 24-25=-751(F=-731), 20-25=-20, 1-5=-60, 5-9=-60

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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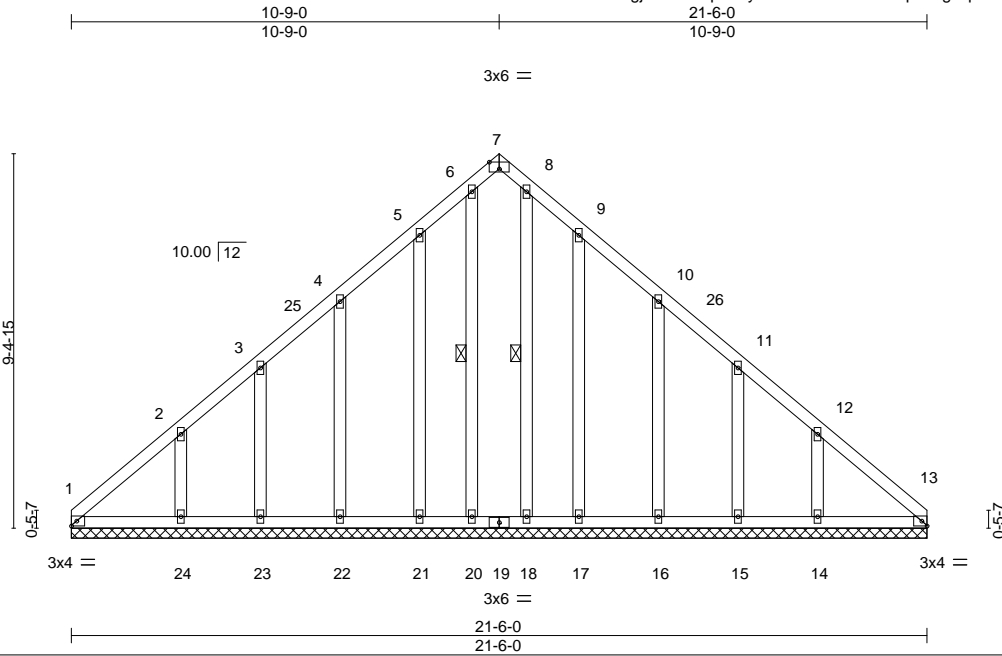
Job TH157-R	Truss B04G	Truss Type GABLE	Qty 1	Ply 1	Chesapeake-6260D:Lot157 TheFarms Job Reference (optional)	168496478
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:34 2024 Page 1

ID:hazSNSvRlgjAW5liYcphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:57.9

Plate Offsets (X,Y)--	[7:0-3-0,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>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	n/a	-	n/a	999
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 0.13	Horz(CT)	0.01	13	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					
								Weight: 155 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.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3	WEBS	1 Row at midpt 6-20, 8-18

**REACTIONS.** All bearings 21-6-0.  
 (lb) - Max Horz 1=195(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 21, 22, 23, 17, 16, 15 except 24=103(LC 12), 14=102(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 13, 20, 18, 21, 22, 23, 24, 17, 16, 15, 14

**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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 2-9-0, Interior(1) 2-9-0 to 10-9-0, Exterior(2) 10-9-0 to 14-9-0, Interior(1) 14-9-0 to 21-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 21, 22, 23, 17, 16, 15 except (jt=lb) 24=103, 14=102.



September 27, 2024

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	168496479
TH157-R	C02GR	COMMON	1	2	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:34 2024 Page 1  
 ID:hazSNSvRlgjAW5iiYcPhTxyvdPZ-RtC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



4x6 ||

Scale = 1:39.8

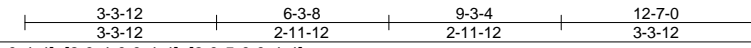
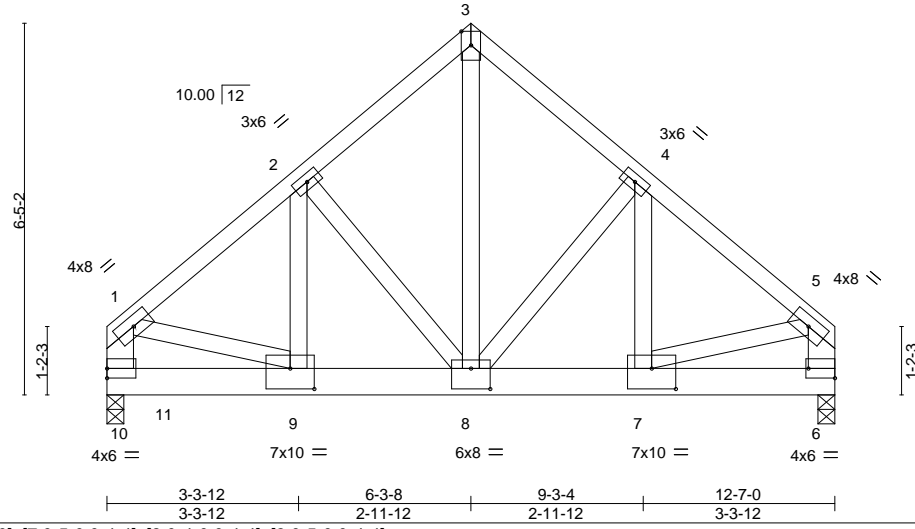


Plate Offsets (X, Y)-- [6:Edge,0-2-0], [7:0-5-0,0-4-4], [8:0-4-0,0-4-4], [9:0-5-0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.58	Vert(LL) -0.03 8-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.84	Vert(CT) -0.06 8-9 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.01 6 n/a n/a		
	Code IRC2015/TP12014		Wind(LL) 0.03 8-9 >999 240	Weight: 193 lb	FT = 20%

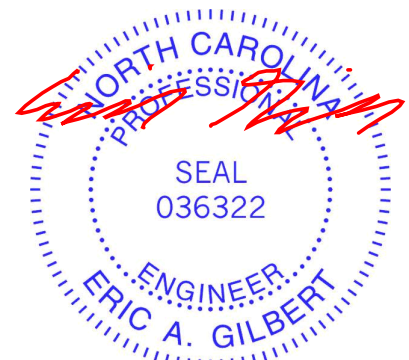
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-10-1 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 1-10,5-6: 2x6 SP No.2	

**REACTIONS.** (size) 10=0-3-8, 6=0-3-8  
 Max Horz 10=-131(LC 6)  
 Max Uplift 10=-466(LC 8), 6=-529(LC 9)  
 Max Grav 10=4682(LC 15), 6=5258(LC 15)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-10=-3954/408, 1-2=-4615/490, 2-3=-3592/437, 3-4=-3615/436, 4-5=-4702/498  
 BOT CHORD 9-10=-147/580, 8-9=-410/3563, 7-8=-356/3585  
 WEBS 3-8=-497/4377, 4-8=-1245/228, 4-7=-139/1531, 5-7=-372/3753, 2-8=-1197/213,  
 2-9=-130/1416, 1-9=-305/3123, 5-6=-4167/428

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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=120mph Vasd=95mph; 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) 10=466, 6=529.

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-60, 3-5=-60, 10-11=-20, 6-11=-751(F=-731)



September 27, 2024

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 Edenton, NC 27932

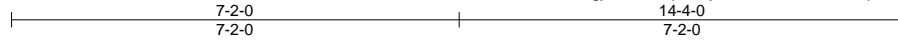
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	168496480
TH157-R	C03G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

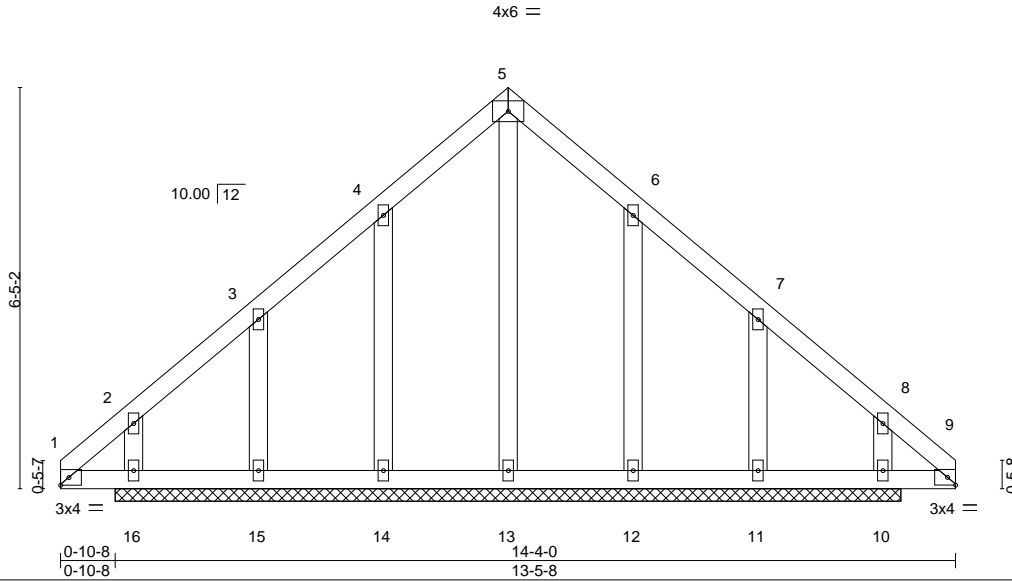
Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:35 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxvvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCdoi7J4zJC?f



Scale = 1:36.9



<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)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.12	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 81 lb	FT = 20%

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

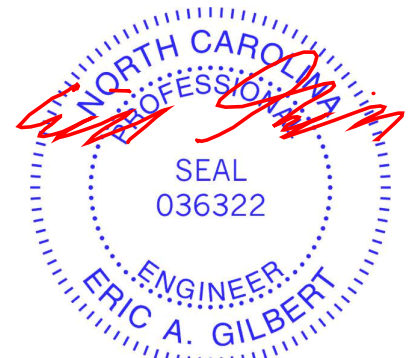
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** All bearings 12-7-0.  
 (lb) - Max Horz 16=131(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 14, 16, 12, 10 except 15=118(LC 12), 11=114(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 13, 14, 15, 16, 12, 11, 10

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 3-2-0, Exterior(2) 3-2-0 to 7-2-0, Corner(3) 7-2-0 to 10-2-0, Exterior(2) 10-2-0 to 14-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 16, 12, 10 except (jt=lb) 15=118, 11=114.
- Non Standard bearing condition. Review required.



September 27, 2024

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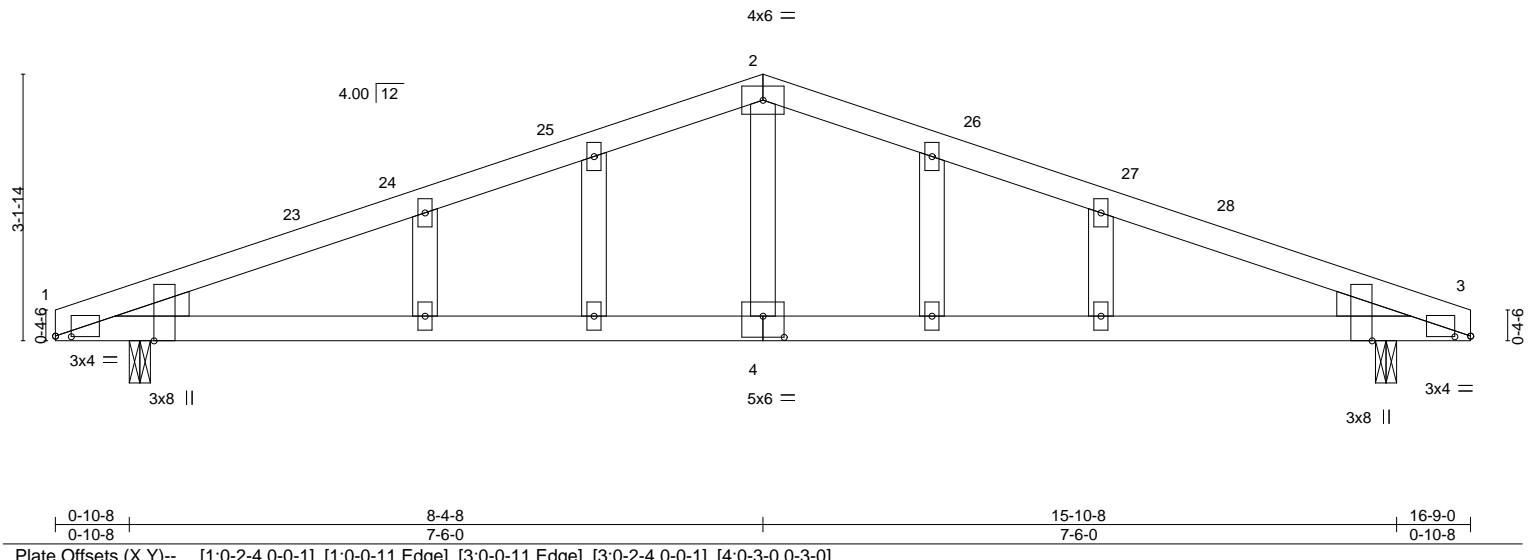
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	168496481
TH157-R	CP01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:35 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxvvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:27.3



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 0.68	Vert(LL)	-0.09	4-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.14	4-17	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.02	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.06	4-17	>999	Weight: 67 lb	FT = 20%

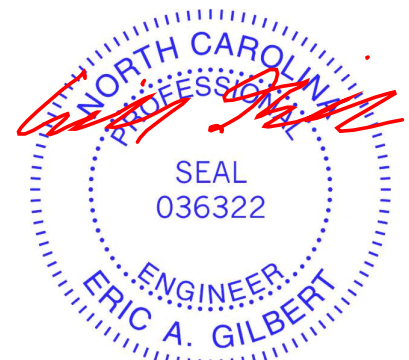
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-3-0, 3=0-3-0  
Max Horz 1=-44(LC 13)  
Max Uplift 1=-57(LC 8), 3=-57(LC 9)  
Max Grav 1=670(LC 1), 3=670(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-991/114, 2-3=-991/114  
BOT CHORD 1-4=-41/877, 3-4=-41/877  
WEBS 2-4=0/304

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-4-8, Exterior(2) 8-4-8 to 12-7-7, Interior(1) 12-7-7 to 16-9-0 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) All plates are 2x4 MT20 unless otherwise indicated.
  - 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) 1, 3.

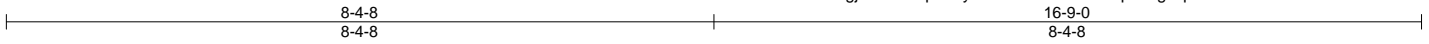


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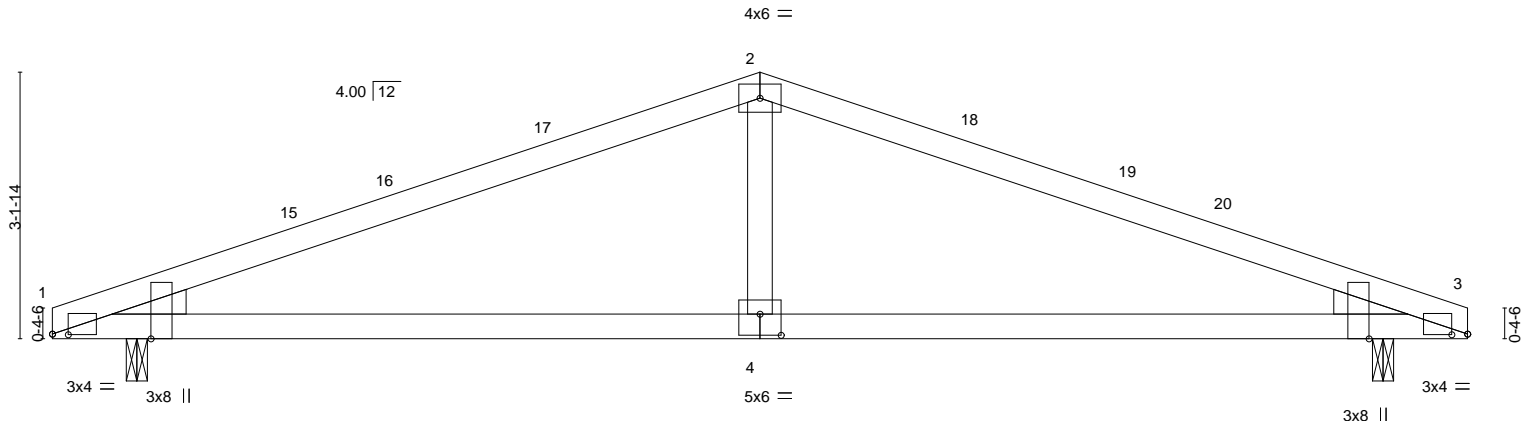
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	168496482
TH157-R	CP02	COMMON	3	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:36 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxvydPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:27.3



0-10-8	8-4-8	15-10-8	16-9-0
0-10-8	7-6-0	7-6-0	0-10-8

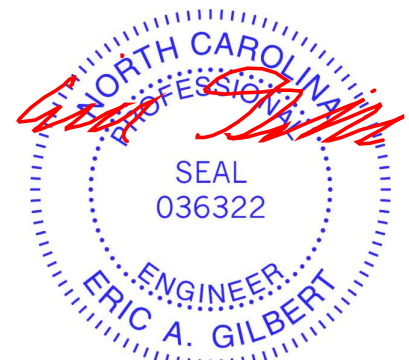
Plate Offsets (X,Y)-- [1:0-2-4,0-0-1], [1:0-0-11,Edge], [3:0-0-11,Edge], [3:0-2-4,0-0-1], [4:0-3-0,0-3-0]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	-0.09	4-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.14	4-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.02	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.06	4-9	>999		
								Weight: 58 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins.
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 , Right: 2x4 SP No.2	

**REACTIONS.** (size) 1=0-3-0, 3=0-3-0  
 Max Horz 1=-44(LC 13)  
 Max Uplift 1=-57(LC 8), 3=-57(LC 9)  
 Max Grav 1=670(LC 1), 3=670(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-991/114, 2-3=-991/114  
 BOT CHORD 1-4=-41/877, 3-4=-41/877  
 WEBS 2-4=0/304

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-4-8, Exterior(2) 8-4-8 to 12-7-7, Interior(1) 12-7-7 to 16-9-0 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) 1, 3.



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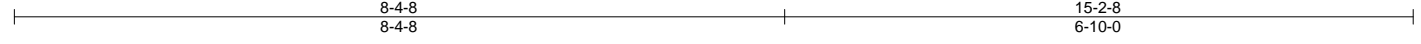
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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/TPH Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	168496483
TH157-R	CP03	COMMON	2	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:36 2024 Page 1

ID:hazSNSvRlgjAW5liYcPhTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



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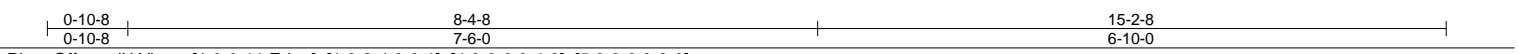
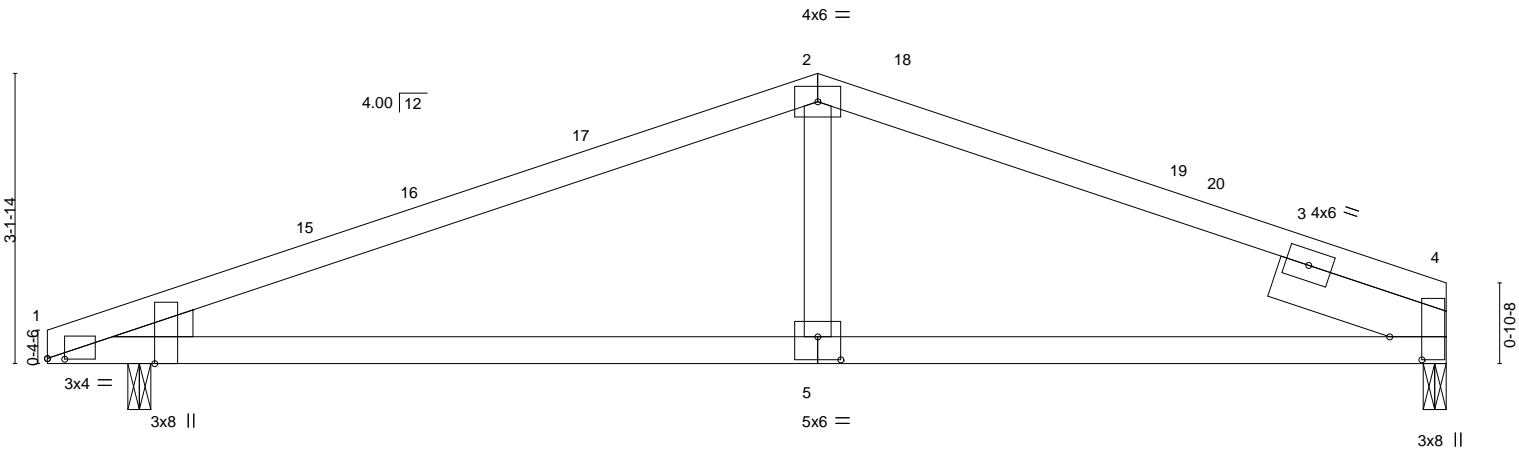


Plate Offsets (X, Y)-- [1:0-0-11,Edge], [1:0-2-4,0-0-1], [4:0-3-0,0-4-3], [5:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.71	Vert(LL)	-0.09 5-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.17 5-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.03 4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.07 5-14	>999	240	Weight: 56 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3  
SLIDER Right 2x6 SP No.2 1-11-12

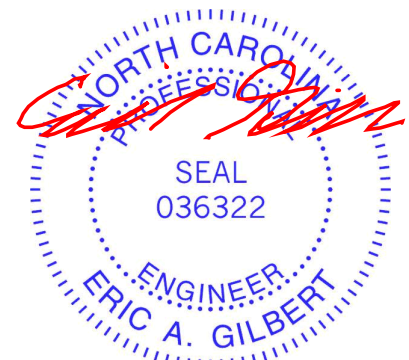
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-6-10 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 4=0-3-0, 1=0-3-0  
Max Horz 1=52(LC 12)  
Max Uplift 4=-45(LC 9), 1=-56(LC 8)  
Max Grav 4=571(LC 1), 1=645(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-907/114, 2-4=-888/126  
BOT CHORD 1-5=-64/797, 4-5=-64/797  
WEBS 2-5=0/283

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-4-8, Exterior(2) 8-4-8 to 12-7-7, Interior(1) 12-7-7 to 15-2-8 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 1.



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**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

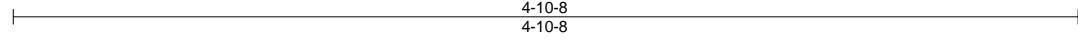
ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate  
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	168496484
TH157-R	M01G	GABLE	1	1	Job Reference (optional)	

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:36 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxvvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:10.5

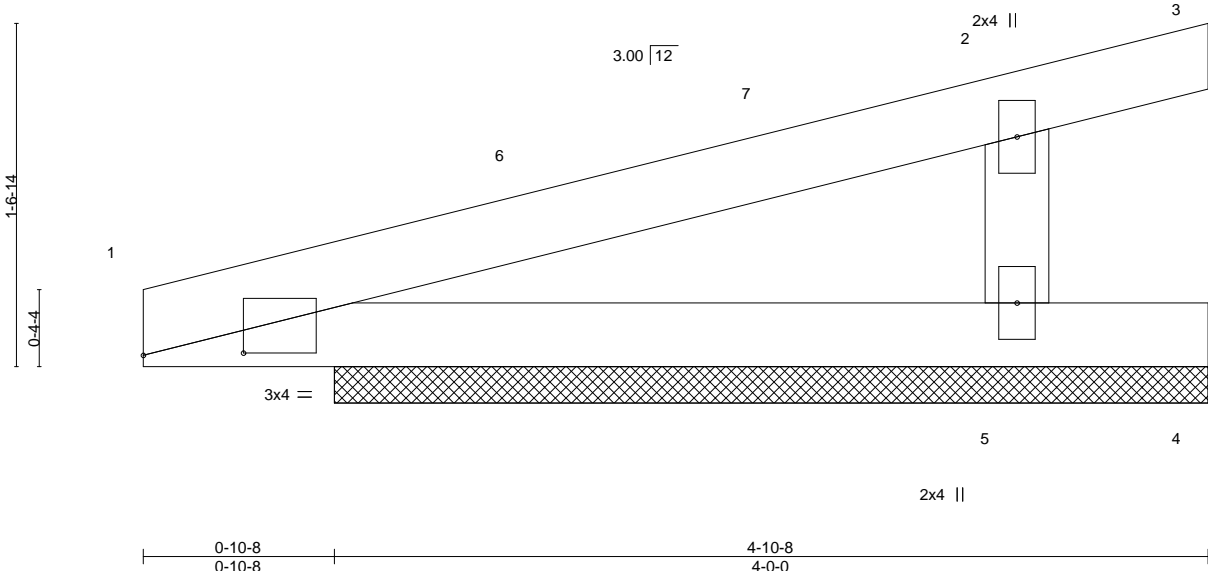


Plate Offsets (X, Y)--	[1:0-5-8,0-0-2]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.21	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 16 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** (size) 1=4-0-0, 3=4-0-0, 4=4-0-0, 5=4-0-0  
 Max Horz 1=43(LC 8)  
 Max Uplift 1=-8(LC 8), 3=-85(LC 1), 4=-58(LC 3), 5=-55(LC 8)  
 Max Grav 1=127(LC 1), 3=34(LC 8), 5=377(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-5=-282/285

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 3-0-0, Exterior(2) 3-0-0 to 4-10-8 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 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4, 5.
  - 7) Non Standard bearing condition. Review required.



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<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY</p> <p>A MITEK Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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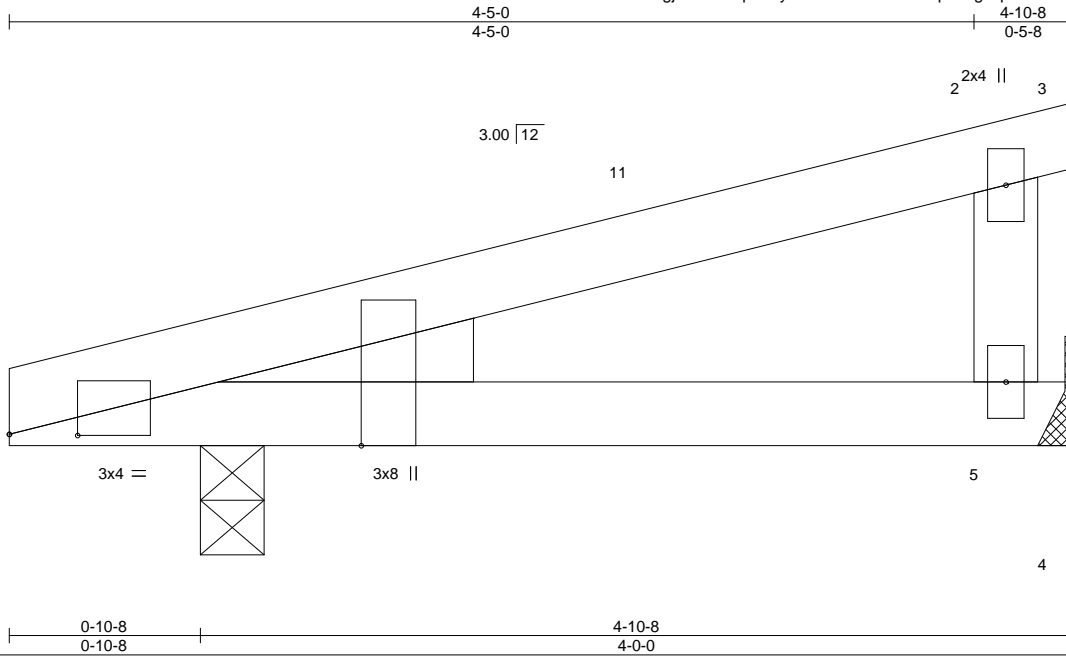
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	I68496485
TH157-R	M02	JACK	5	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:37 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxvvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:10.5

Plate Offsets (X,Y)--	[1:0-3-12,0-0-1], [1:0-0-10,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 0.15	Vert(LL)	-0.01	5-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.02	5-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	1	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.01	5-10	>999	240	Weight: 18 lb	FT = 20%

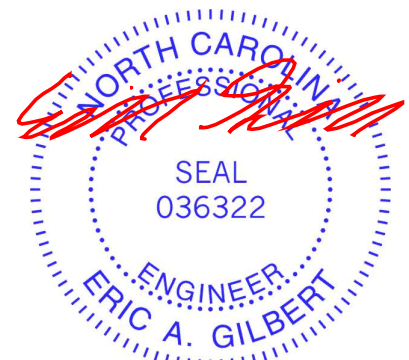
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3

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

**REACTIONS.** (size) 1=0-3-8, 5=Mechanical  
Max Horz 1=41(LC 8)  
Max Uplift 1=20(LC 8), 5=25(LC 8)  
Max Grav 1=225(LC 1), 5=165(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-10-8 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



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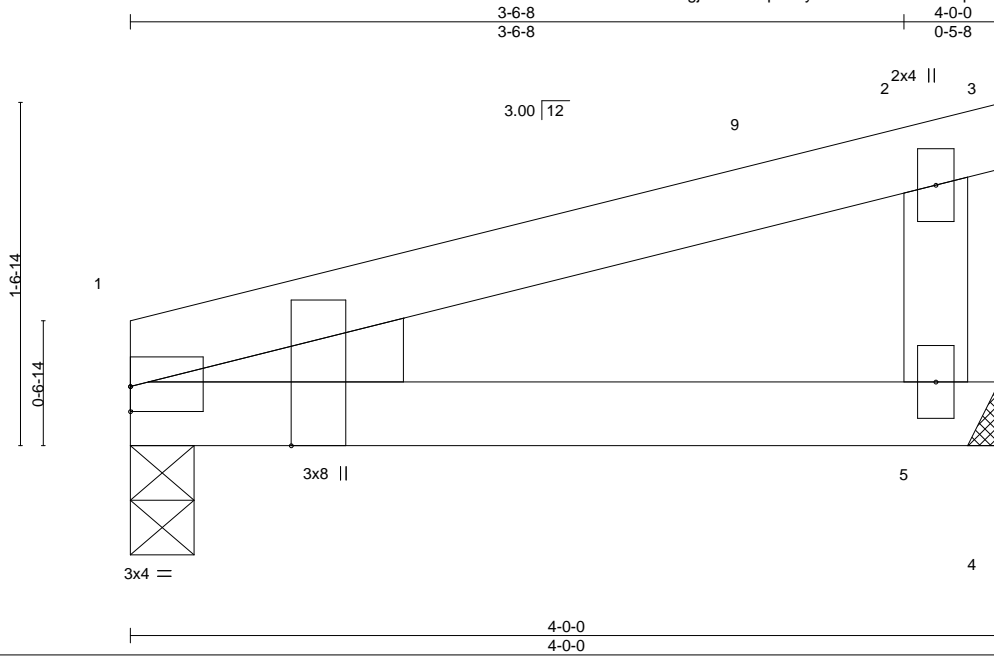
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	168496486
TH157-R	M03	JACK	1	1		

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:37 2024 Page 1

ID:hazSNSvRlgjAW5liYcphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:10.5

Plate Offsets (X, Y)--	[1:0-0-0,0-1-6], [1:0-3-4,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 0.16	Vert(LL) -0.01 5-8 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.02 5-8 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00 1 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.01 5-8 >999 240	Weight: 15 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins.
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) 1=0-3-8, 5=Mechanical  
 Max Horz 1=33(LC 8)  
 Max Uplift 1=-11(LC 8), 5=-26(LC 8)  
 Max Grav 1=146(LC 1), 5=174(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-8 to 3-10-8, Interior(1) 3-10-8 to 4-10-8 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



September 27, 2024

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	168496487
TH157-R	P04G	GABLE	1	1	Job Reference (optional)	

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:37 2024 Page 1

ID:hazSNSvRlgjAW5liY CphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:14.4

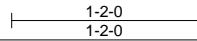
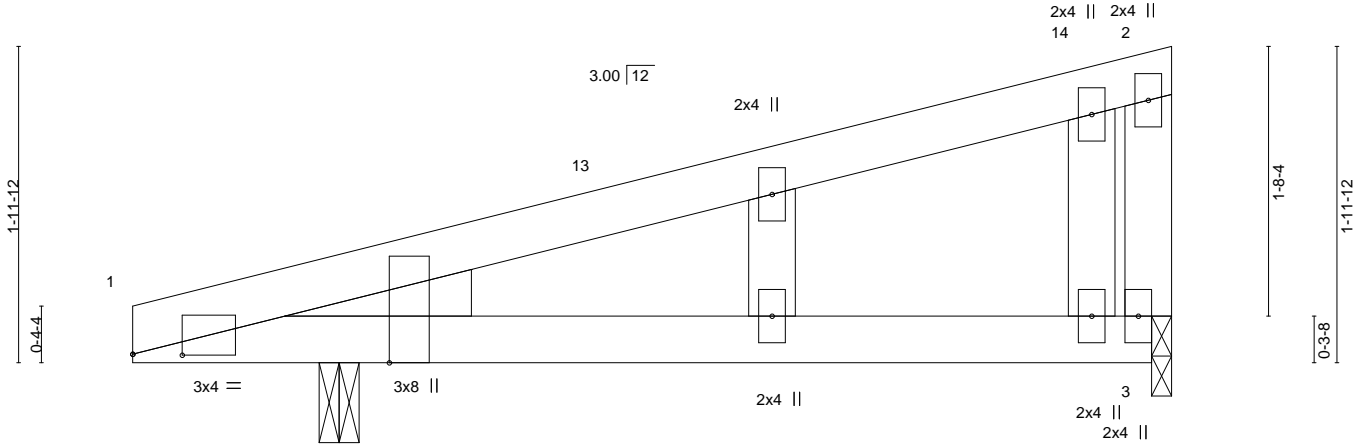


Plate Offsets (X, Y)-- [1:0-3-11,0-0-1], [1:0-0-10,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.03	3-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.07	3-12	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	1	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.03	3-12	>999	240		
							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  
WEDGE  
Left: 2x4 SP No.3

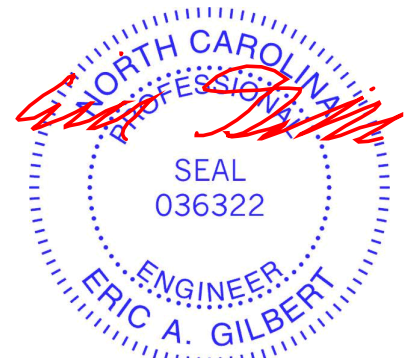
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-3-0, 3=0-1-8  
Max Horz 1=57(LC 11)  
Max Uplift 1=-33(LC 8), 3=-28(LC 8)  
Max Grav 1=311(LC 1), 3=197(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 3 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) 3.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



September 27, 2024

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	168496488
TH157-R	P05	MONO TRUSS	6	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:38 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

4-2-11  
4-2-11

6-6-0  
2-3-5

Scale = 1:13.4

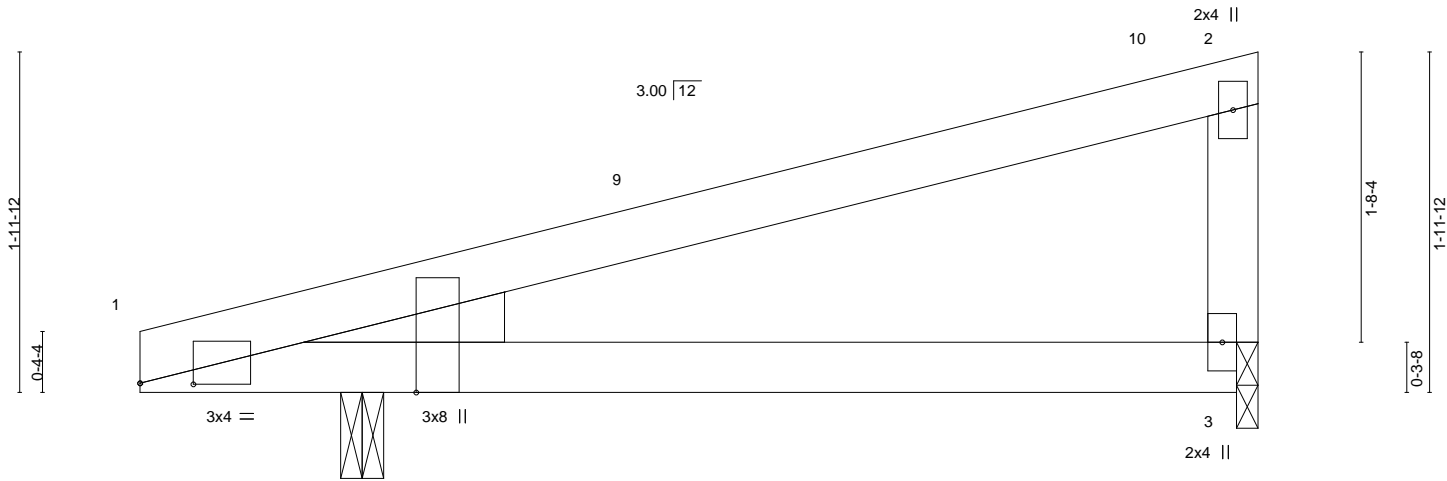


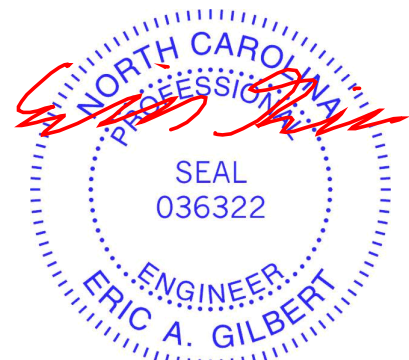
Plate Offsets (X,Y)--		[1:0-3-11,0-0-1], [1:0-0-10,Edge]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	-0.03	3-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.07	3-8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	1	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MP	Wind(LL)	0.03	3-8	>999	Weight: 23 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		
WEDGE			
Left: 2x4 SP No.3			

**REACTIONS.** (size) 1=0-3-0, 3=0-1-8  
 Max Horz 1=57(LC 11)  
 Max Uplift 1=33(LC 8), 3=28(LC 8)  
 Max Grav 1=311(LC 1), 3=197(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) 3 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) 3.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



September 27, 2024

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	168496489
TH157-R	P06	MONO TRUSS	3	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:38 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxvvdPZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:14.8

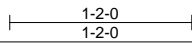
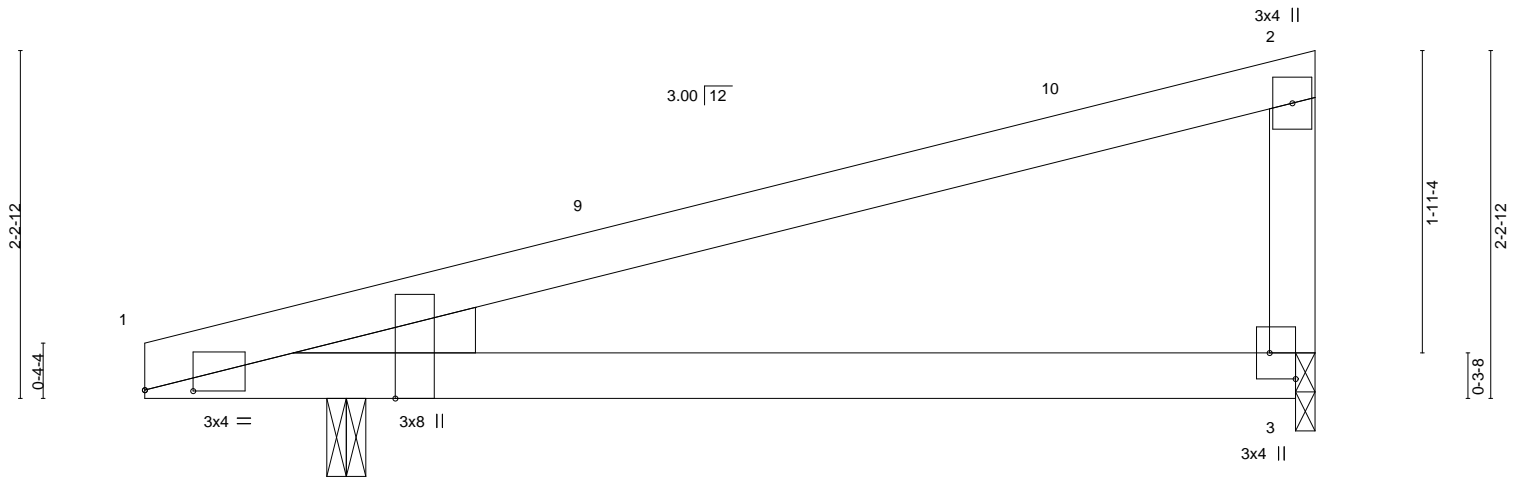


Plate Offsets (X,Y)-- [1:0-3-11,0-0-1], [1:0-0-10,Edge], [3:Edge,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.34	Vert(LL) -0.04 3-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.09 3-8 >992 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.00 1 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 3-8 >999 240	Weight: 27 lb	FT = 20%

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

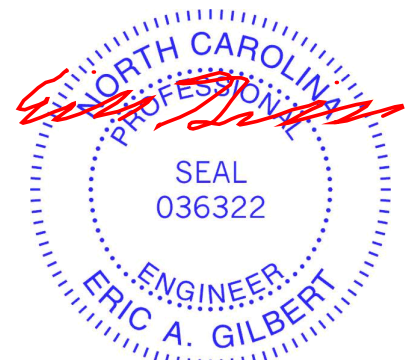
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-3-0, 3=0-1-8  
Max Horz 1=66(LC 11)  
Max Uplift 1=37(LC 8), 3=33(LC 8)  
Max Grav 1=350(LC 1), 3=239(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 7-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 3 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) 3.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



September 27, 2024

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	I68496490
TH157-R	P07G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:39 2024 Page 1

ID:hazSNSvRlgjAW5IiYcPhTxvvdPZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

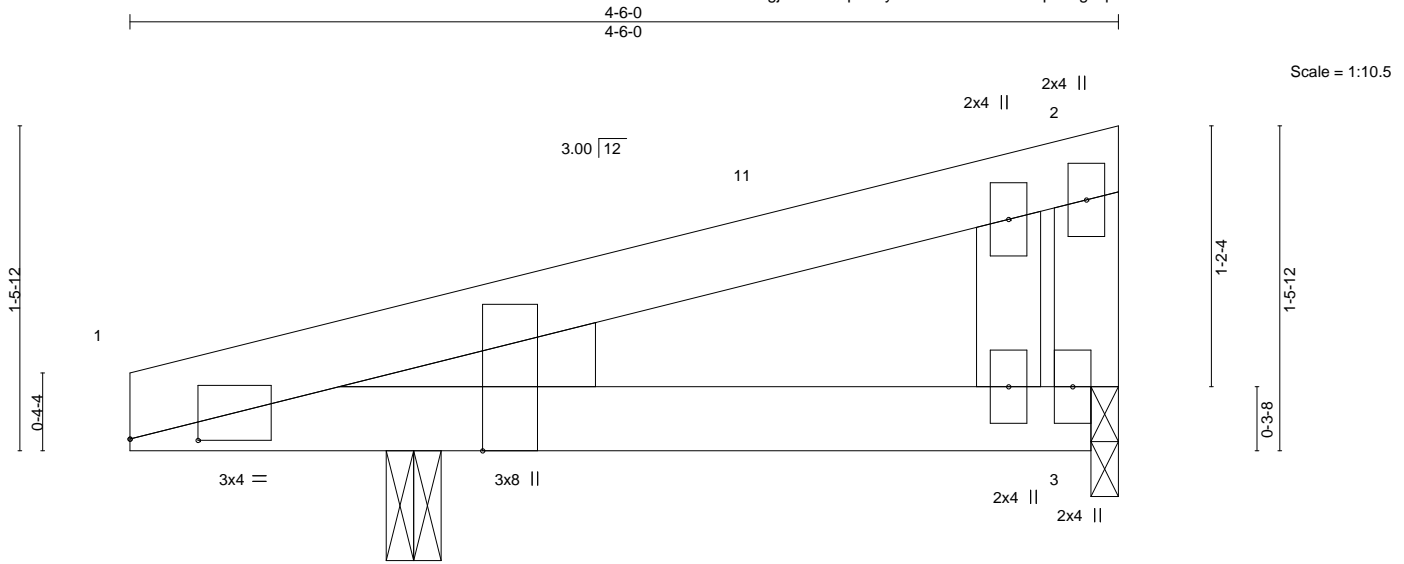


Plate Offsets (X,Y)--	[1:0-3-11,0-0-1], [1:0-0-10,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) -0.00 10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.01 3-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 1 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.00 10 >999 240	Weight: 18 lb	FT = 20%

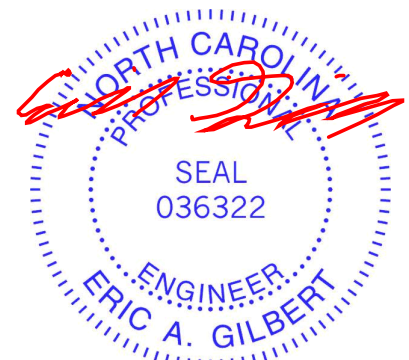
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3	

**REACTIONS.** (size) 1=0-3-0, 3=0-1-8  
 Max Horz 1=40(LC 11)  
 Max Uplift 1=-25(LC 8), 3=-17(LC 12)  
 Max Grav 1=238(LC 1), 3=110(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 3 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) 3.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



September 27, 2024



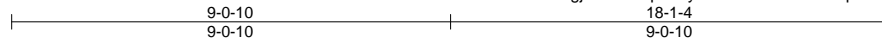
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	I68496491
TH157-R	V01	GABLE	1	1		

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:39 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



3x6 =

Scale = 1:47.5

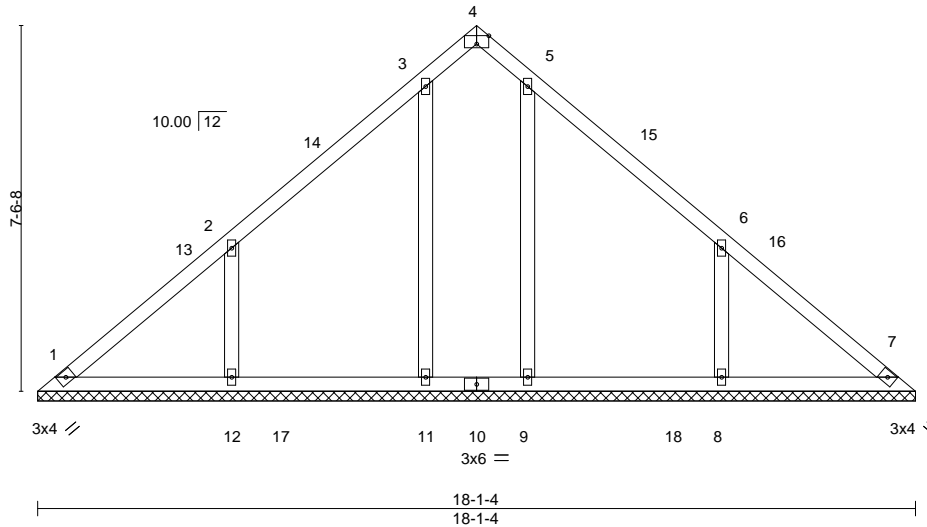


Plate Offsets (X,Y)--	[4:0-3:0,Edge]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	n/a	-	n/a	999
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	n/a	-	n/a	999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.01	7	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					
								Weight: 87 lb FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.3  
 BOT CHORD 2x4 SP No.3  
 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 6-0-0 oc bracing.

**REACTIONS.** All bearings 18-1-4.  
 (lb) - Max Horz 1=-155(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 11 except 8=-149(LC 13), 12=-148(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 8=415(LC 20), 9=314(LC 20), 12=414(LC 19), 11=325(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 6-8=-283/196, 2-12=-283/194

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 9-0-10, Exterior(2) 9-0-10 to 12-0-10, Interior(1) 12-0-10 to 17-8-7 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
  - 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, 9, 11 except (jt=lb) 8=149, 12=148.



September 27, 2024

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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818 Soundside Road  
 Edenton, NC 27932

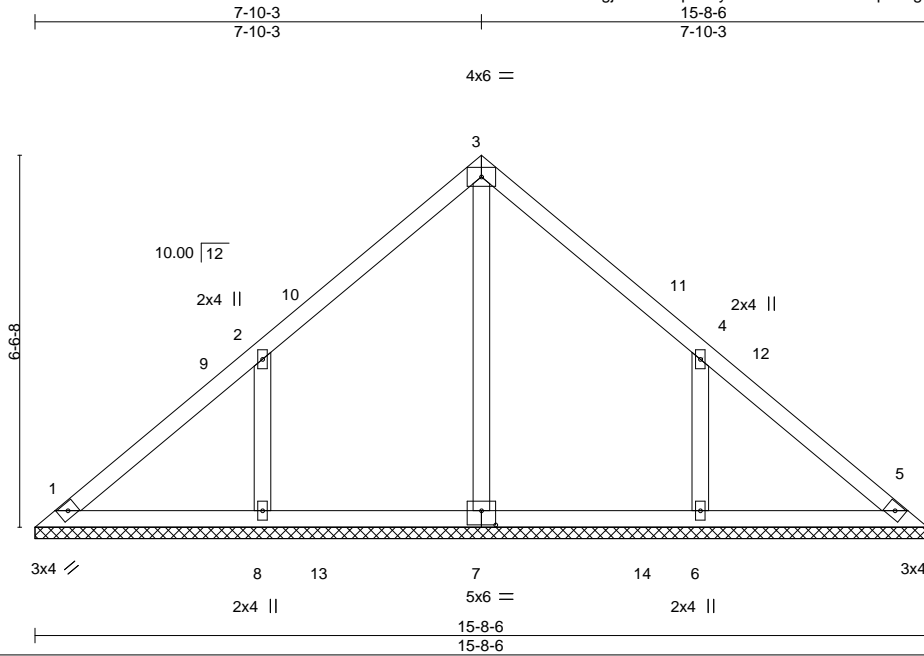
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms
TH157-R	V02	GABLE	1	1	168496492

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:39 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxvvdPZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:40.5

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

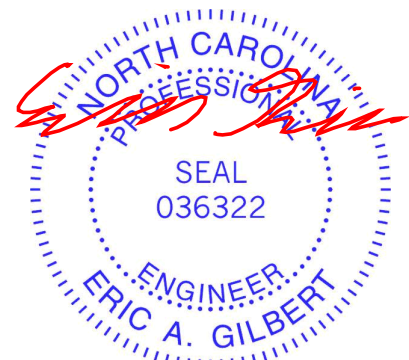
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.27	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 69 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 15-8-6.  
 (lb) - Max Horz 1=133(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 6=-150(LC 13), 8=-150(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=342(LC 22), 6=403(LC 20), 8=403(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 4-6=-285/193, 2-8=-285/193

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 7-10-3, Exterior(2) 7-10-3 to 10-10-3, Interior(1) 10-10-3 to 15-3-9 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, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 6=150, 8=150.



September 27, 2024

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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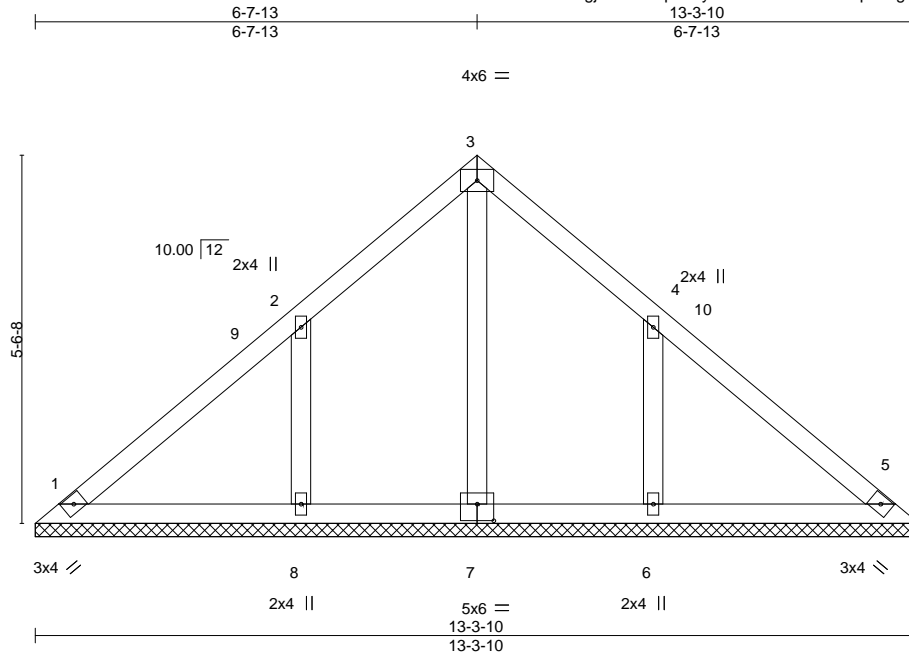
Job TH157-R	Truss V03	Truss Type GABLE	Qty 1	Ply 1	Chesapeake-6260D:Lot157 TheFarms Job Reference (optional)	I68496493
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:40 2024 Page 1

ID:hazSNSvRlgjAW5iiYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:34.7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 60 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

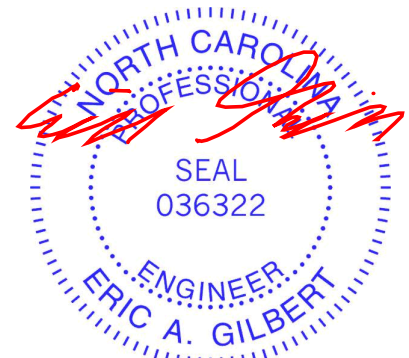
**REACTIONS.**

All bearings 13-3-10.  
 (lb) - Max Horz 1=112(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) except 6=-129(LC 13), 8=-129(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 6=333(LC 20), 8=333(LC 19)

**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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 6-7-13, Exterior(2) 6-7-13 to 9-7-13, Interior(1) 9-7-13 to 12-10-13 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 129 lb uplift at joint 6 and 129 lb uplift at joint 8.



September 27, 2024

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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818 Soundside Road  
 Edenton, NC 27932

Job TH157-R	Truss V04	Truss Type GABLE	Qty 1	Ply 1	Chesapeake-6260D:Lot157 TheFarms Job Reference (optional)	I68496494
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:40 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



3x6 =

Scale = 1:28.5

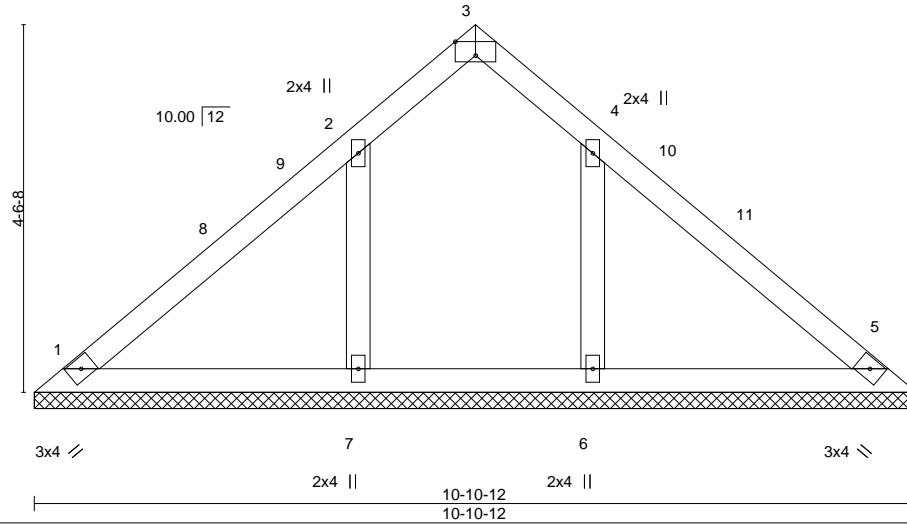


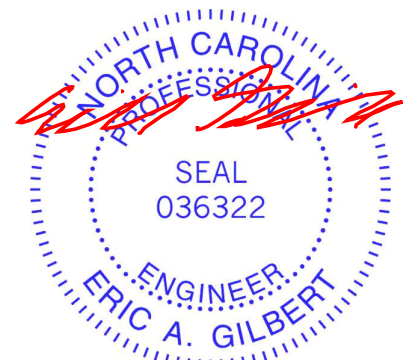
Plate Offsets (X,Y)--	[3:0-3-0,Edge]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	n/a	-	n/a	999
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a	999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	5	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					
							<b>PLATES</b>	<b>GRIP</b>
							MT20	244/190
							Weight: 44 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.
BOT CHORD	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS	2x4 SP No.3		

**REACTIONS.** All bearings 10-10-12.  
 (lb) - Max Horz 1=90(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) except 6=-111(LC 13), 7=-113(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=311(LC 20), 7=313(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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-5-6, Exterior(2) 5-5-6 to 8-5-6, Interior(1) 8-5-6 to 10-5-13 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 111 lb uplift at joint 6 and 113 lb uplift at joint 7.



September 27, 2024

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms
TH157-R	V05	GABLE	1	1	I68496495

Builders FirstSource (Apex, NC),

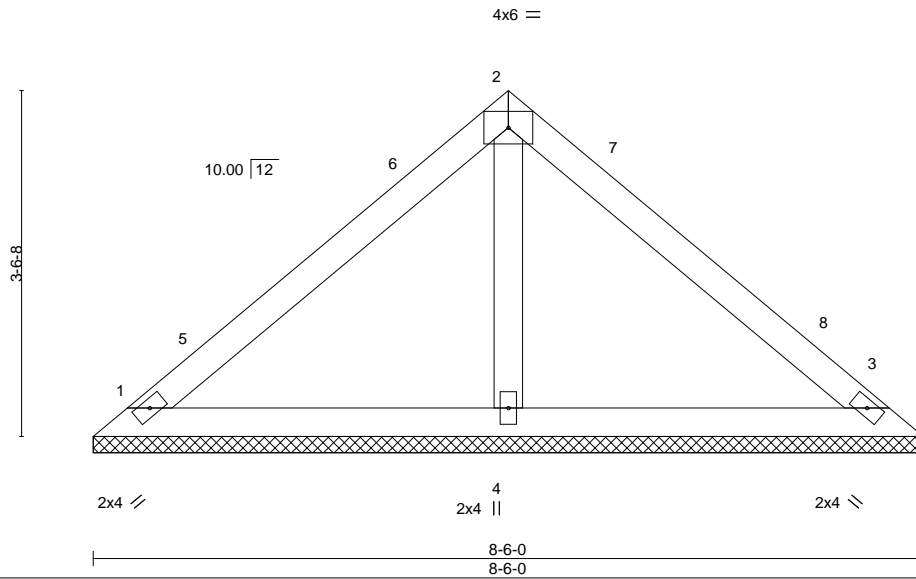
Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:41 2024 Page 1

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Scale = 1:23.6



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 32 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

**REACTIONS.** (size) 1=8-6-0, 3=8-6-0, 4=8-6-0  
 Max Horz 1=69(LC 9)  
 Max Uplift 1=-17(LC 13), 3=-26(LC 13)  
 Max Grav 1=161(LC 1), 3=161(LC 1), 4=293(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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-3-0, Exterior(2) 4-3-0 to 7-3-0, Interior(1) 7-3-0 to 8-1-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 17 lb uplift at joint 1 and 26 lb uplift at joint 3.



September 27, 2024

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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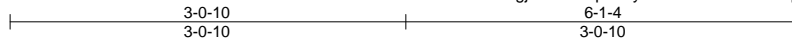
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	I68496496
TH157-R	V06	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

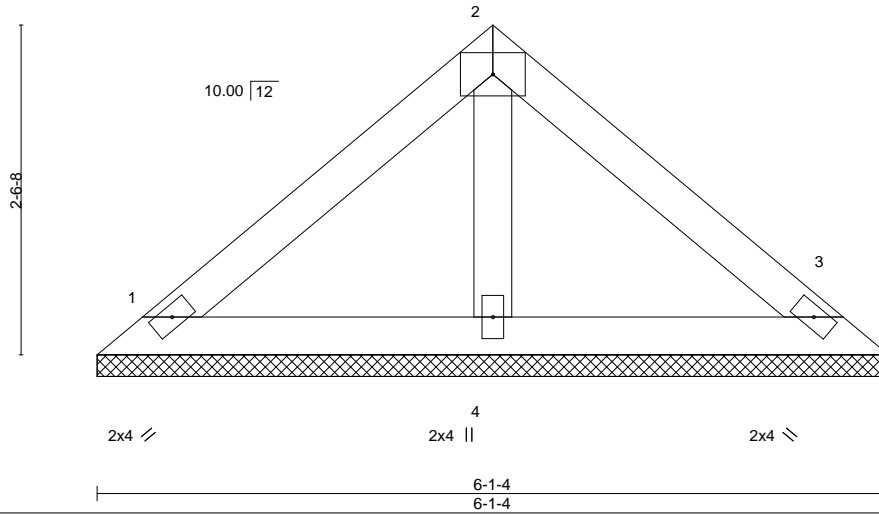
8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:41 2024 Page 1

ID:hazSNSvRlgjAW5liYcPhTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



4x6 =

Scale = 1:17.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 22 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

**REACTIONS.** (size) 1=6-1-4, 3=6-1-4, 4=6-1-4  
 Max Horz 1=-47(LC 8)  
 Max Uplift 1=-18(LC 13), 3=-24(LC 13)  
 Max Grav 1=120(LC 1), 3=120(LC 1), 4=183(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=120mph Vasd=95mph; 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 18 lb uplift at joint 1 and 24 lb uplift at joint 3.



September 27, 2024

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



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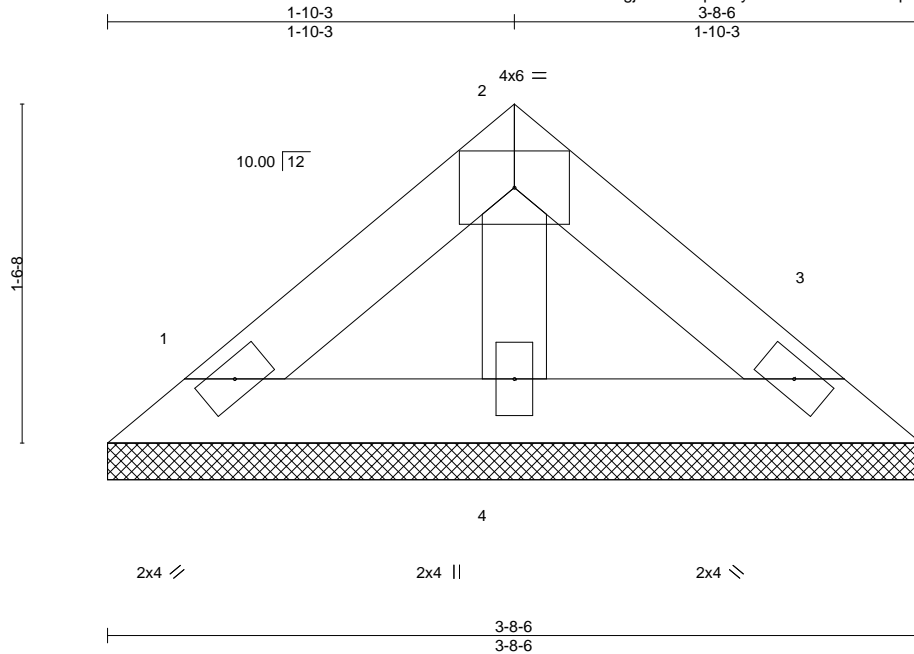
Job TH157-R	Truss V07	Truss Type GABLE	Qty 1	Ply 1	Chesapeake-6260D:Lot157 TheFarms Job Reference (optional)	I68496497
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:41 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:10.5

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 13 lb	FT = 20%
	Code IRC2015/TPI2014							

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-8-6 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

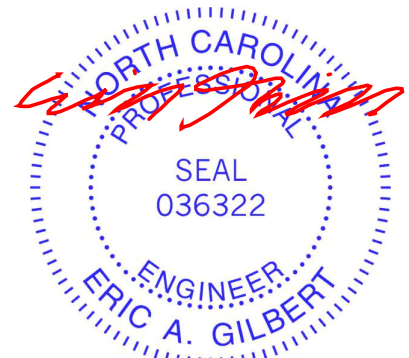
**REACTIONS.**

(size) 1=3-8-6, 3=3-8-6, 4=3-8-6  
 Max Horz 1=-26(LC 8)  
 Max Uplift 1=-10(LC 13), 3=-13(LC 13)  
 Max Grav 1=66(LC 1), 3=66(LC 1), 4=100(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=120mph Vasd=95mph; TC DL=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 10 lb uplift at joint 1 and 13 lb uplift at joint 3.



September 27, 2024

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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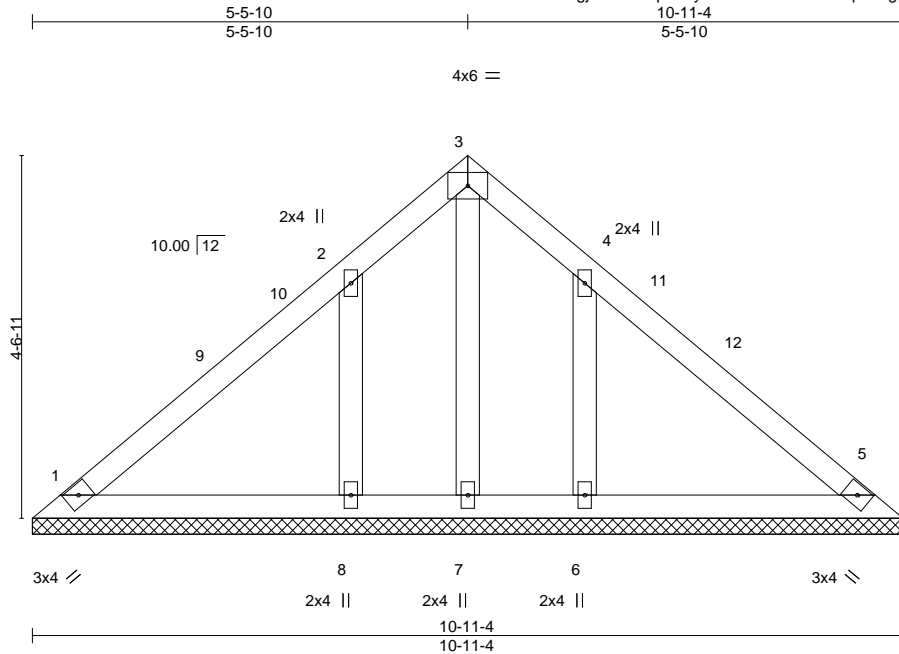
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms
TH157-R	V09	GABLE	1	1	168496498

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:42 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:28.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 50 lb	FT = 20%
	Code IRC2015/TPI2014							

**LUMBER-**  
 TOP CHORD 2x4 SP No.3  
 BOT CHORD 2x4 SP No.3  
 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 6-0-0 oc bracing.

**REACTIONS.** All bearings 10-11-4.  
 (lb) - Max Horz 1=91(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 7 except 6=119(LC 13), 8=119(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 6=327(LC 20), 8=328(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=120mph Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-5-10, Exterior(2) 5-5-10 to 8-5-10, Interior(1) 8-5-10 to 10-6-7 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
- 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) 7 except (jt=lb) 6=119, 8=119.



September 27, 2024

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818 Soundside Road  
 Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms
TH157-R	V10	GABLE	1	1	168496499

Builders FirstSource (Apex, NC),

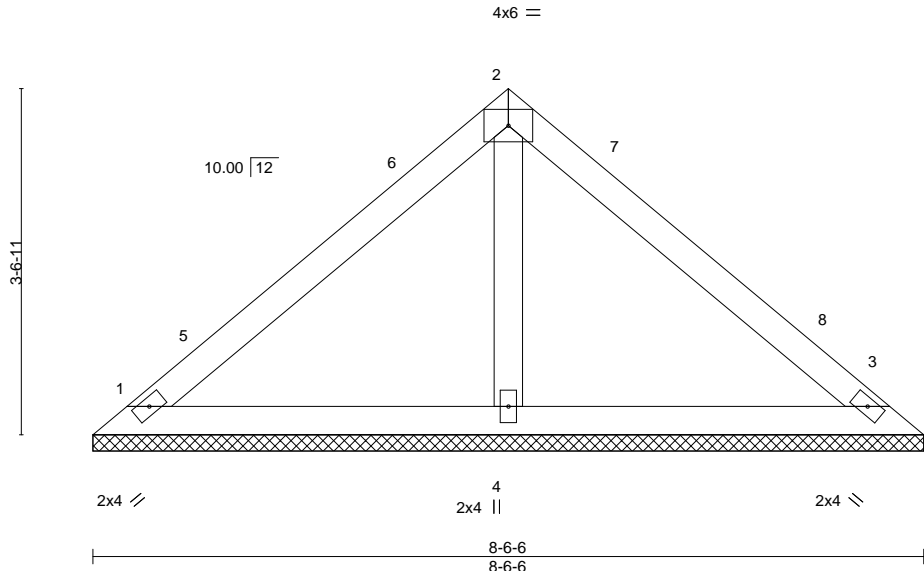
Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:42 2024 Page 1

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Scale = 1:23.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 32 lb	FT = 20%
	Code IRC2015/TPI2014							

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

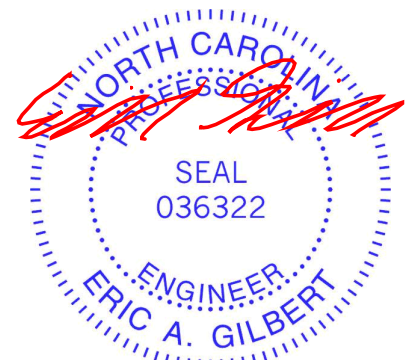
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=8-6-6, 3=8-6-6, 4=8-6-6  
 Max Horz 1=-69(LC 8)  
 Max Uplift 1=-17(LC 13), 3=-26(LC 13)  
 Max Grav 1=162(LC 1), 3=162(LC 1), 4=294(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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-3-3, Exterior(2) 4-3-3 to 7-3-3, Interior(1) 7-3-3 to 8-1-9 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



September 27, 2024

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

Job TH157-R	Truss V11	Truss Type GABLE	Qty 1	Ply 1	Chesapeake-6260D:Lot157 TheFarms Job Reference (optional)	I68496500
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

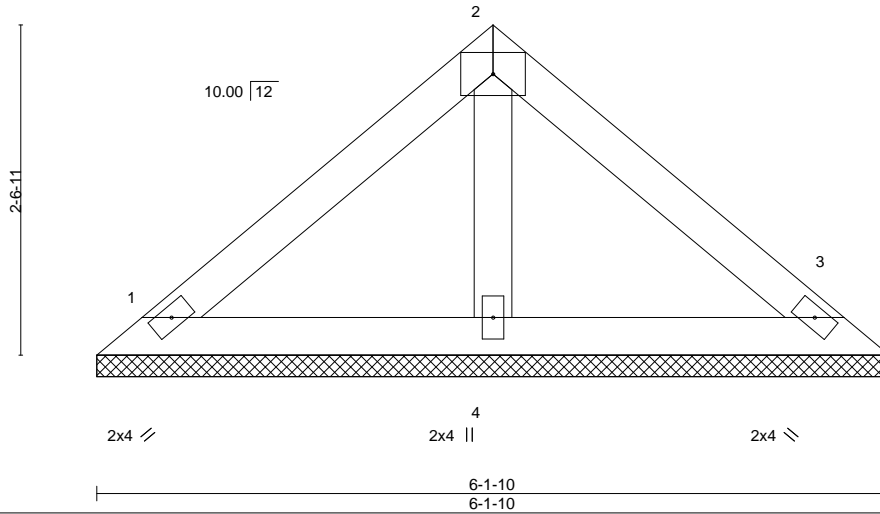
8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:43 2024 Page 1

ID:hazSNSvRlgjAW5liYcPhTxvvdPZ-RIC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



4x6 =

Scale = 1:17.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 22 lb	FT = 20%
	Code IRC2015/TPI2014							

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

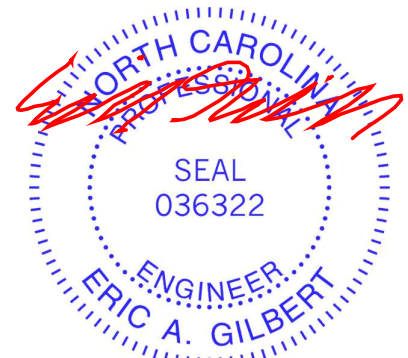
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=6-1-10, 3=6-1-10, 4=6-1-10  
Max Horz 1=-48(LC 10)  
Max Uplift 1=-18(LC 13), 3=-24(LC 13)  
Max Grav 1=121(LC 1), 3=121(LC 1), 4=184(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=120mph Vasd=95mph; 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) 1, 3.



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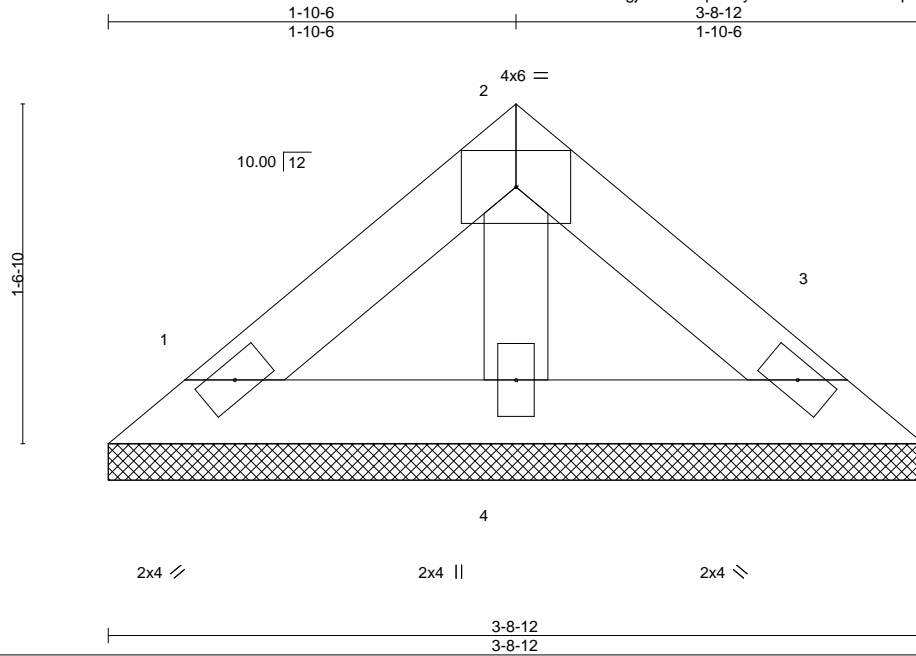
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot157 TheFarms	I68496501
TH157-R	V12	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:20:43 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:10.5

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 13 lb	FT = 20%
	Code IRC2015/TPI2014							

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

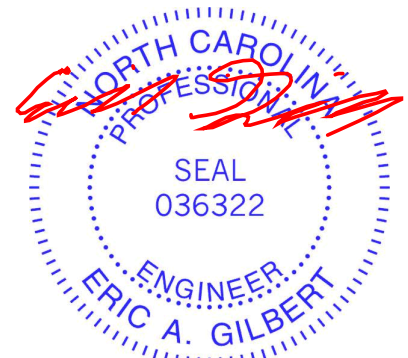
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-8-12 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=3-8-12, 3=3-8-12, 4=3-8-12  
Max Horz 1=-26(LC 8)  
Max Uplift 1=-10(LC 13), 3=-13(LC 13)  
Max Grav 1=66(LC 1), 3=66(LC 1), 4=101(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=120mph Vasd=95mph; 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) 1, 3.



September 27, 2024

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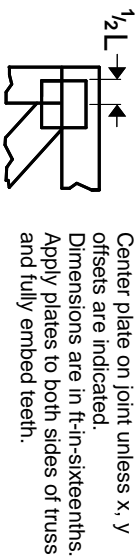
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



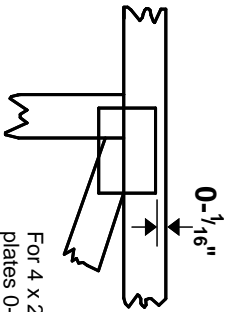
818 Soundside Road  
Edenton, NC 27932

# Symbols

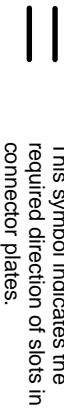
## PLATE LOCATION AND ORIENTATION



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



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



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

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

## PLATE SIZE

4 X 4

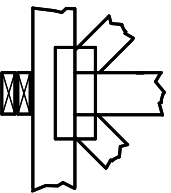
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

## BEARING



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

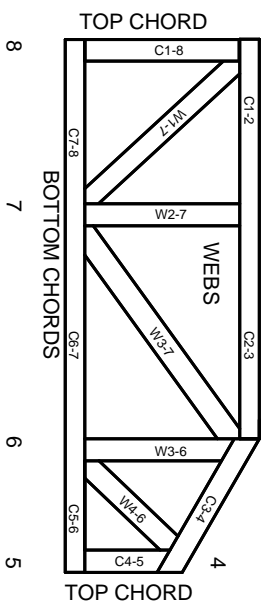
## Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-22: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



1 TOP CHORDS  
2 Joint ID  
3 typ.



**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-1988, ESR-2362, ESR-2685, ESR-3282  
ESR-4722, ESL-1388

# Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on Lumber values established by others.

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**MITek**

ENGINEERING BY  
**TRENGO**  
A MITek Affiliate

MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability/bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.