ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: FNC133-R
Chesapeake 307C:Lot133 NeillsCreek

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: I64737214 thru I64737255

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

North Carolina COA: C-0844

April 9,2024

Gilbert, Eric

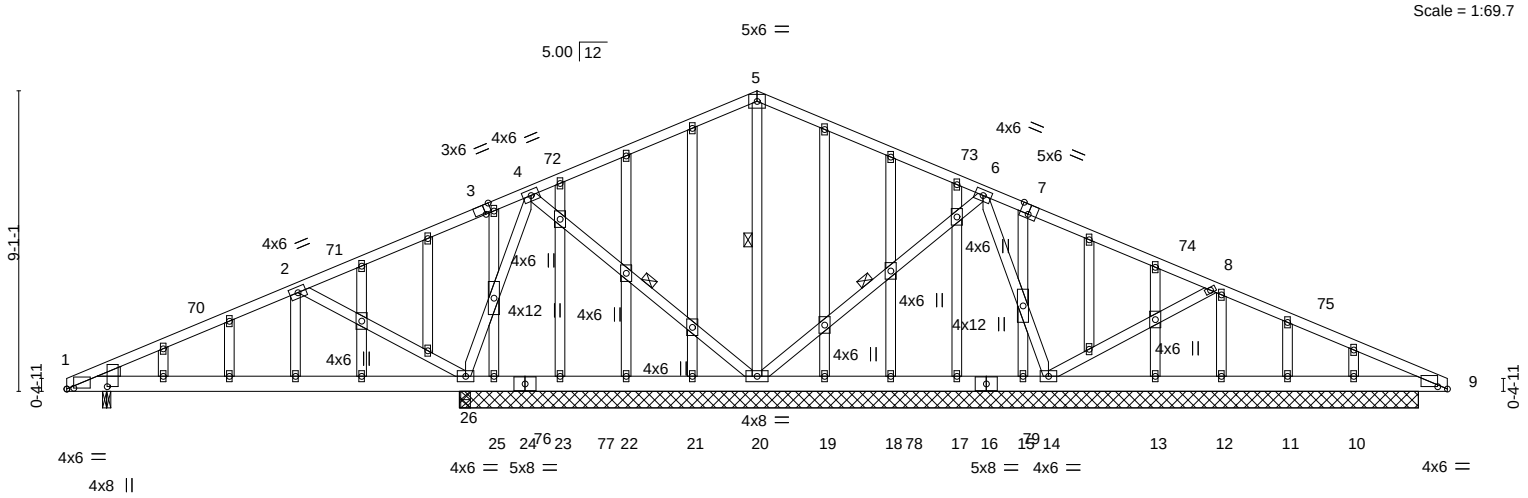
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	A01G	GABLE	1	1	I64737214
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:28 2024 Page 1
ID:x1XjjwWBLqE?VCReTaQN3tymvXu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7-2-0	14-0-8	20-10-8	27-8-8	34-7-0	41-9-0
7-2-0	6-10-8	6-10-0	6-10-0	6-10-8	7-2-0

Scale = 1:69.7



1-1-0	12-0-12	20-10-8	29-8-4	40-10-8	41-9-0
1-1-0	10-11-12	8-9-12	8-9-12	11-2-4	0-10-8

Plate Offsets (X,Y)-- [1:0-0-14,1-2-10], [1:0-2-8,0-0-5], [3:0-2-4,Edge], [7:0-3-0,Edge], [9:0-3-8,0-0-13]

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	0.64	Vert(LL)	-0.07	26-69	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.14	26-69	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	62	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.02	26-69	>999	240	Weight: 347 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 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.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-20, 5-20, 6-20

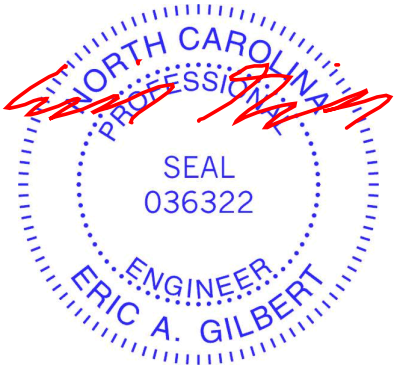
REACTIONS. All bearings 29-0-0 except (jt=length) 26=0-3-8, 26=0-3-8, 1=0-3-0.
(lb) - Max Horz 1=-110(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 20, 9, 10, 1 except 14=-101(LC 13), 25=-594(LC 3)
Max Grav All reactions 250 lb or less at joint(s) 21, 22, 23, 19, 18, 17, 15, 13, 12, 11, 10 except 26=997(LC 23), 26=978(LC 1), 20=603(LC 1), 14=737(LC 24), 9=353(LC 24), 1=523(LC 23), 9=350(LC 1)

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

TOP CHORD	1-2=-504/48, 8-9=-371/95
BOT CHORD	1-26=-59/418, 13-14=-19/280, 12-13=-19/280, 11-12=-19/280, 10-11=-19/280, 9-10=-19/280
WEBS	2-26=-456/163, 4-26=-342/141, 5-20=-388/82, 6-14=-480/94, 8-14=-455/177

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 4-2-3, Interior(1) 4-2-3 to 20-10-8, Exterior(2) 20-10-8 to 26-9-8, Interior(1) 26-9-8 to 41-9-0 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, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 9, 10, 1, 9 except (jt=lb) 14=101, 25=594.



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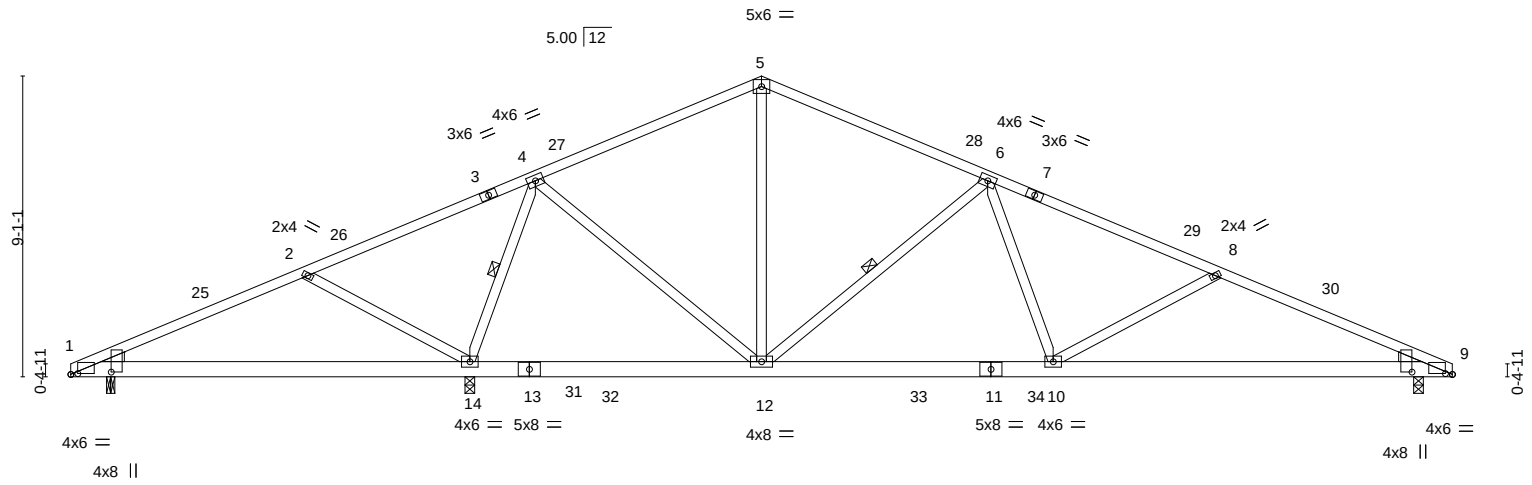
Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	A02	COMMON	2	1	I64737215
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:29 2024 Page 1
ID:x1XjjwWBLqE?VCReTaQN3tymvXu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7-2-0	14-0-8	20-10-8	27-8-8	34-7-0	41-9-0
7-2-0	6-10-8	6-10-0	6-10-0	6-10-8	7-2-0

Scale = 1:69.6



1-1-0	12-0-12	20-10-8	29-8-4	40-10-8	41-9-0
1-1-0	10-11-12	8-9-12	8-9-12	11-2-4	0-10-8

Plate Offsets (X,Y)-- [1:0-0-14,1-2-10], [1:0-2-8,0-0-5], [9:0-2-8,0-0-5], [9:0-0-14,1-2-10]

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	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.18	10-19	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.05	10-12	>999	240	Weight: 239 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 3-10-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 1-14.
WEBS 1 Row at midpt 4-14, 6-12

REACTIONS. (size) 14=0-3-8, 9=0-3-8, 1=0-3-0
Max Horz 1=-110(LC 13)
Max Uplift 14=-39(LC 8), 9=-35(LC 13), 1=-27(LC 12)
Max Grav 14=1859(LC 1), 9=1148(LC 1), 1=423(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-264/180, 2-4=-105/502, 4-5=-803/135, 5-6=-804/129, 6-8=-1598/100, 8-9=-1972/151
BOT CHORD 10-12=0/1277, 9-10=-64/1762
WEBS 2-14=-480/161, 4-14=-1455/233, 4-12=-36/766, 5-12=0/356, 6-12=-823/128, 6-10=0/505, 8-10=-412/162

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 4-2-3, Interior(1) 4-2-3 to 20-10-8, Exterior(2) 20-10-8 to 26-9-8, Interior(1) 26-9-8 to 41-9-0 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, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 9, 1.

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Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek	I64737216
FNC133-R	A02T	COMMON	6	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523 — 8.630 s Mar 9 2023 MiTek Industries, Inc. Tue Apr 9 10:33:05 2024 Page 1

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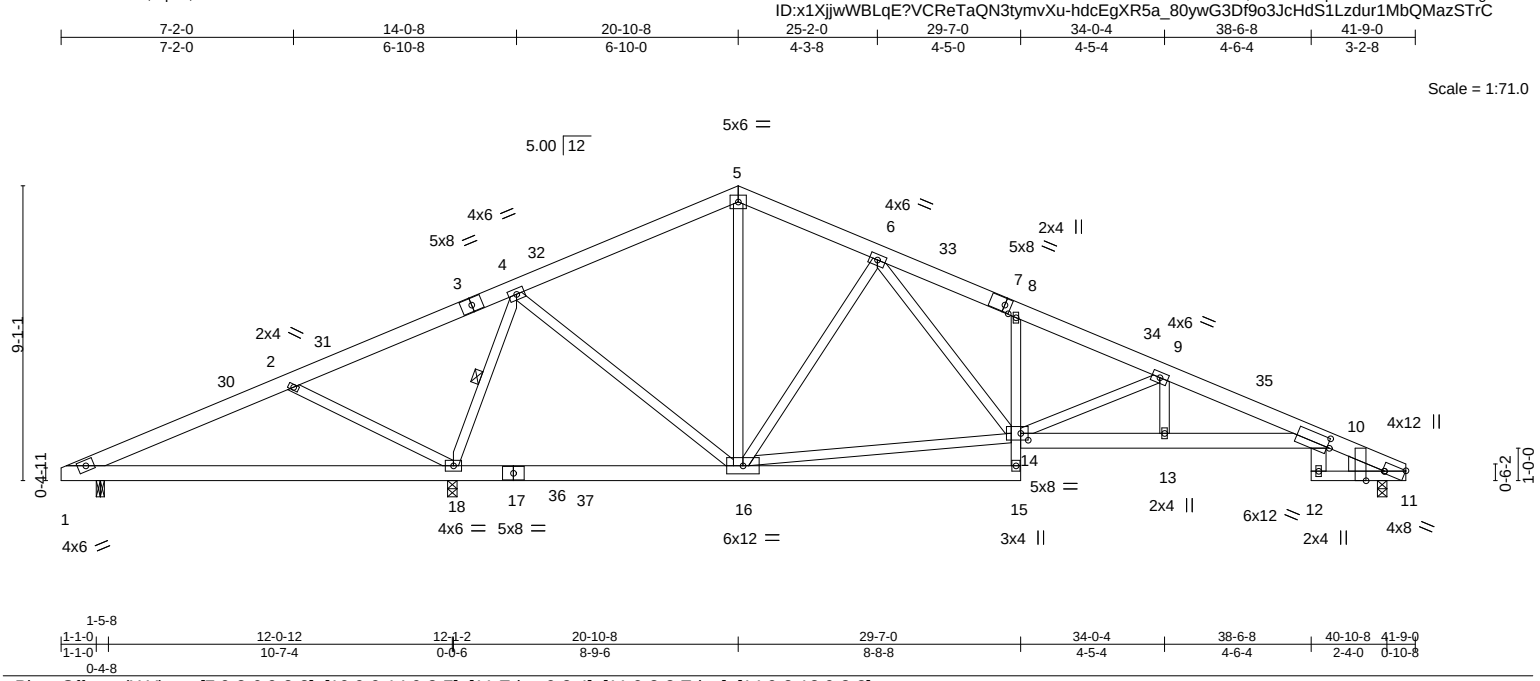

Plate Offsets (X,Y)-- [7:0-2-6,0-2-8], [10:0-0-14,0-3-7], [11:Edge,0-3-4], [11:0-3-8,Edge], [14:0-2-12,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.13	13-25	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.26	13-25	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.15	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.09	13-25	>999	240	Weight: 296 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
7-11: 2x6 SP 2400F 2.0E or 2x6 SP DSS
BOT CHORD 2x6 SP No.2 *Except*
8-15, : 2x4 SP No.3, 10-14: 2x6 SP 2400F 2.0E or 2x6 SP DSS
11-12: 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 1-18,16-18.
WEBS 1 Row at midpt 4-18

REACTIONS. (lb/size) 1=-25/0-3-0 (min. 0-1-8), 18=2246/0-3-8 (min. 0-2-10), 11=987/0-3-8 (min. 0-1-8)
Max Horz 1=-105(LC 13)
Max Uplift 1=-189(LC 24), 18=-8(LC 8), 11=-17(LC 13)
Max Grav 1=178(LC 23), 18=2246(LC 1), 11=987(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-30=-63/720, 2-30=-40/758, 2-31=-118/1024, 3-31=-91/1093, 3-4=-88/1172, 4-32=-538/105, 5-32=-449/134, 5-6=-500/130, 6-33=-1500/169, 7-33=-1553/159, 7-8=-1563/149, 8-34=-1581/119, 9-34=-1603/101, 9-35=-2496/138, 10-35=-2529/125, 10-28=-332/43
BOT CHORD 1-18=-650/145, 18-36=-453/159, 17-36=-453/159, 17-37=-453/159, 16-37=-453/159, 13-14=-56/2357, 10-13=-56/2357
WEBS 2-18=-579/159, 4-18=-1827/240, 6-16=-780/146, 9-14=-1035/86, 9-13=0/394, 4-16=-27/1092, 6-14=-50/980, 14-16=0/628

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) 1-2-8 to 5-4-11, Interior(1) 5-4-11 to 20-10-8, Exterior(2) 20-10-8 to 26-9-8, Interior(1) 26-9-8 to 40-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 189 lb uplift at joint 1, 8 lb uplift at joint 18 and 17 lb uplift at joint 11.
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.

LOAD CASE(S)

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Continued on page 2

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LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 5-21=-60, 5-10=-60, 10-28=-60, 1-15=-20, 14-23=-20, 11-12=-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: 5-21=-50, 5-10=-50, 10-28=-50, 1-36=-20, 36-37=-50, 15-37=-20, 14-23=-20, 11-12=-20
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 5-21=-20, 5-10=-20, 10-28=-20, 1-15=-40, 14-23=-40, 11-12=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 21-30=25, 5-30=14, 5-33=25, 10-33=14, 10-28=14, 1-15=-12, 14-23=-12, 11-12=-12
   Horz: 21-30=-37, 5-30=-26, 5-33=37, 10-33=26, 10-28=26
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 21-22=-7, 22-32=14, 5-32=25, 5-35=14, 10-35=25, 10-28=25, 1-15=-12, 14-23=-12, 11-12=-12
   Horz: 21-22=-5, 22-32=-26, 5-32=-37, 5-35=26, 10-35=37, 10-28=37
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 5-21=-33, 5-10=-33, 10-28=-33, 1-15=-20, 14-23=-20, 11-12=-20
   Horz: 5-21=13, 5-10=-13, 10-28=-13
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 21-22=-25, 5-22=-33, 5-10=-33, 10-28=-33, 1-15=-20, 14-23=-20, 11-12=-20
   Horz: 21-22=5, 5-22=13, 5-10=-13, 10-28=-13
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 5-21=12, 5-10=10, 10-28=10, 1-15=-12, 14-23=-12, 11-12=-12
   Horz: 5-21=-24, 5-10=22, 10-28=22
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 5-21=10, 5-10=12, 10-28=12, 1-15=-12, 14-23=-12, 11-12=-12
   Horz: 5-21=-22, 5-10=24, 10-28=24
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 5-21=-6, 5-10=-7, 10-28=-7, 1-15=-20, 14-23=-20, 11-12=-20
    Horz: 5-21=-14, 5-10=13, 10-28=13
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 5-21=-7, 5-10=-6, 10-28=-6, 1-15=-20, 14-23=-20, 11-12=-20
    Horz: 5-21=-13, 5-10=14, 10-28=14
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 21-31=22, 5-31=11, 5-10=3, 10-28=3, 1-15=-12, 14-23=-12, 11-12=-12
    Horz: 21-31=-34, 5-31=-23, 5-10=15, 10-28=15
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 5-21=3, 5-34=11, 10-34=22, 10-28=22, 1-15=-12, 14-23=-12, 11-12=-12
    Horz: 5-21=-15, 5-34=23, 10-34=34, 10-28=34
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 5-21=11, 5-10=3, 10-28=3, 1-15=-12, 14-23=-12, 11-12=-12
    Horz: 5-21=-23, 5-10=15, 10-28=15
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 5-21=3, 5-10=11, 10-28=11, 1-15=-12, 14-23=-12, 11-12=-12
    Horz: 5-21=-15, 5-10=23, 10-28=23
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 21-31=4, 5-31=-6, 5-10=-15, 10-28=-15, 1-15=-20, 14-23=-20, 11-12=-20
    Horz: 21-31=-24, 5-31=-14, 5-10=5, 10-28=5
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 5-21=-15, 5-34=-6, 10-34=4, 10-28=4, 1-15=-20, 14-23=-20, 11-12=-20
    Horz: 5-21=-5, 5-34=14, 10-34=24, 10-28=24
18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
    Uniform Loads (plf)
    Vert: 5-21=-20, 5-10=-20, 10-28=-20, 1-36=-20, 36-37=-60, 15-37=-20, 14-23=-20, 11-12=-20
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: 5-21=-39, 5-10=-41, 10-28=-41, 1-36=-20, 36-37=-50, 15-37=-20, 14-23=-20, 11-12=-20
    Horz: 5-21=-11, 5-10=9, 10-28=9
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

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LOAD CASE(S)

Uniform Loads (plf)
Vert: 5-21=-41, 5-10=-39, 10-28=-39, 1-36=-20, 36-37=-50, 15-37=-20, 14-23=-20, 11-12=-20
Horz: 5-21=-9, 5-10=11, 10-28=11

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: 21-31=-32, 5-31=-40, 5-10=-46, 10-28=-46, 1-36=-20, 36-37=-50, 15-37=-20, 14-23=-20, 11-12=-20
Horz: 21-31=-18, 5-31=-10, 5-10=4, 10-28=4

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: 5-21=-46, 5-34=-40, 10-34=-32, 10-28=-32, 1-36=-20, 36-37=-50, 15-37=-20, 14-23=-20, 11-12=-20
Horz: 5-21=-4, 5-34=10, 10-34=18, 10-28=18

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-21=-60, 5-10=-20, 10-28=-20, 1-15=-20, 14-23=-20, 11-12=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-21=-20, 5-10=-60, 10-28=-60, 1-15=-20, 14-23=-20, 11-12=-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: 5-21=-50, 5-10=-20, 10-28=-20, 1-36=-20, 36-37=-50, 15-37=-20, 14-23=-20, 11-12=-20

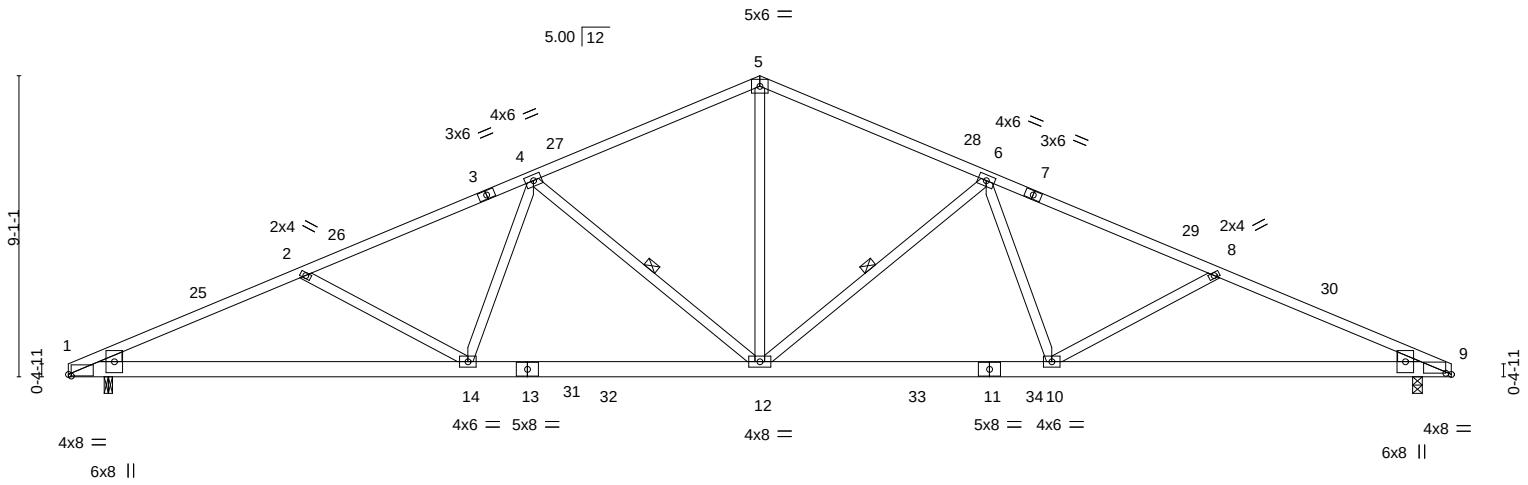
26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-21=-20, 5-10=-50, 10-28=-50, 1-36=-20, 36-37=-50, 15-37=-20, 14-23=-20, 11-12=-20

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	A04	COMMON	6	1	I64737217
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:30 2024 Page 1
ID:x1XjjwWBLqE?VCReTaQN3tymvXu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7-2-0	14-0-8	20-10-8	27-8-8	34-7-0	41-9-0
7-2-0	6-10-8	6-10-0	6-10-0	6-10-8	7-2-0

Scale = 1:69.6



1-1-0	12-0-12	20-10-8	29-8-4	40-10-8	41-9-0
1-1-0	10-11-12	8-9-12	8-9-12	11-2-4	0-10-8

Plate Offsets (X,Y)-- [1:0-1-0,0-0-9], [9:0-2-0,0-0-7]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.22	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.44	12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.10	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	12-14	>999	240	Weight: 239 lb	FT = 20%

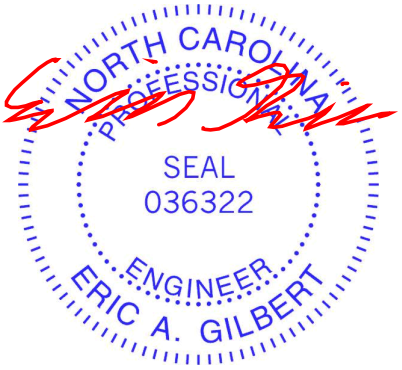
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
1-13: 2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 9-10.
WEBS 1 Row at midpt 4-12, 6-12

REACTIONS. (size) 9=0-3-8, 1=0-3-0
Max Horz 1=-110(LC 17)
Max Uplift 9=-13(LC 13), 1=-12(LC 12)
Max Grav 9=1661(LC 1), 1=1679(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3087/248, 2-4=-2751/199, 4-5=-2096/241, 5-6=-2096/241, 6-8=-2802/204, 8-9=-3149/252
BOT CHORD 1-14=-159/2776, 12-14=-88/2390, 10-12=-81/2420, 9-10=-156/2837
WEBS 2-14=-363/164, 4-14=0/407, 4-12=-743/120, 5-12=-47/1185, 6-12=-778/123, 6-10=0/445, 8-10=-380/163

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 4-2-3, Interior(1) 4-2-3 to 20-10-8, Exterior(2) 20-10-8 to 26-9-8, Interior(1) 26-9-8 to 41-9-0 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, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 1.



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Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	A05GR	COMMON	1	2	I64737218
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:31 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

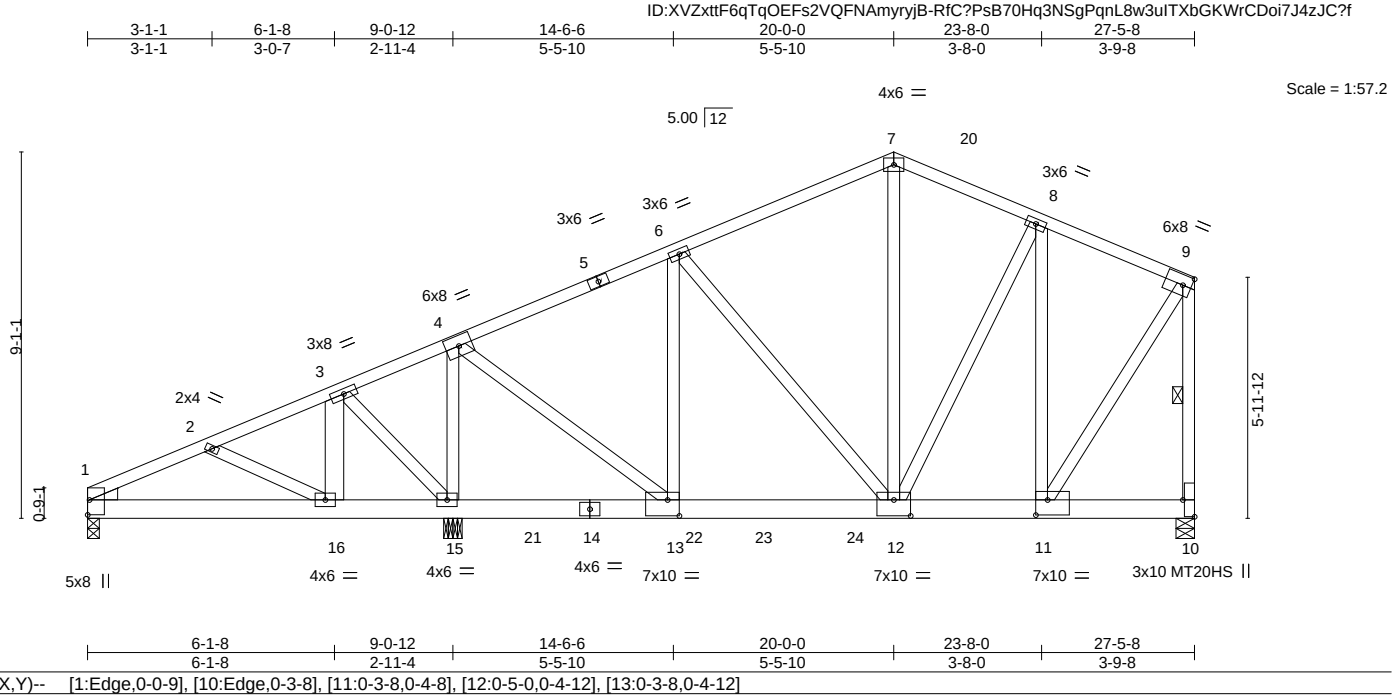

Plate Offsets (X,Y)-- [1:Edge,0-0-9], [10:Edge,0-3-8], [11:0-3-8,0-4-8], [12:0-5-0,0-4-12], [13:0-3-8,0-4-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.08	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.17	12-13	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.07	12-13	>999	240	Weight: 427 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
10-14: 2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS 2x4 SP No.3 *Except*
3-16: 2x6 SP No.2, 4-13,9-11: 2x4 SP No.2
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, Except: 6-0-0 oc bracing: 13-15.
WEBS 1 Row at midpt 9-10

REACTIONS. (size) 10=0-5-8, 1=0-3-8, 15=0-5-8
Max Horz 1=192(LC 7)
Max Uplift 10=-753(LC 9), 1=-22(LC 8), 15=-873(LC 8)
Max Grav 10=7005(LC 15), 1=441(LC 19), 15=8299(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-467/33, 3-4=-150/1105, 4-6=-4095/424, 6-7=-3853/439, 7-8=-3815/446, 8-9=-3155/361, 9-10=-5736/622
BOT CHORD 1-16=-113/431, 13-15=-978/126, 12-13=-390/3755, 11-12=-340/2916
WEBS 2-16=-284/99, 3-16=-141/1492, 3-15=-1612/203, 4-15=-5741/618, 4-13=-590/5936, 6-12=-351/67, 7-12=-298/2722, 8-12=-130/1408, 8-11=-1658/207, 9-11=-557/5296

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=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
5) All plates are MT20 plates unless otherwise indicated.
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, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 10=753, 15=873.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1268 lb down and 145 lb up at 6-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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LOAD CASE(S) Standard

Continued on page 2

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LOAD CASE(S) Standard

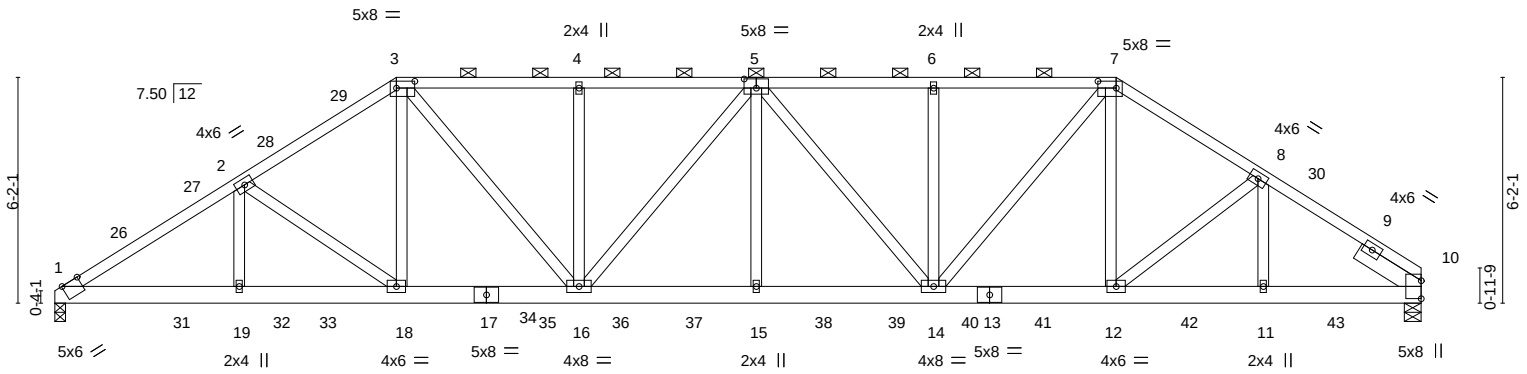
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-60, 7-9=-60, 16-17=-58(F=-38), 16-21=-192(F=-172), 21-22=-563(F=-543), 22-24=-739(F=-719), 10-24=-754(F=-734)
   Concentrated Loads (lb)
   Vert: 16=-1218(F)

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	D01GR	HIP	1	2	I64737219
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:32 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-0-7	9-4-0	14-3-14	19-2-0	24-0-2	29-0-0	33-0-4	37-4-0
5-0-7	4-3-9	4-11-14	4-10-2	4-10-2	4-11-14	4-0-4	4-3-12

Scale = 1:63.0



5-0-7	9-4-0	14-3-14	19-2-0	24-0-2	29-0-0	33-0-4	37-4-0
5-0-7	4-3-9	4-11-14	4-10-2	4-10-2	4-11-14	4-0-4	4-3-12

Plate Offsets (X,Y)-- [1:0-5-13,Edge], [3:0-6-0,0-2-4], [5:0-4-0,0-3-0], [7:0-6-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.17	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.33	15-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.19	15-16	>999	240	Weight: 515 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-0-8 oc purlins, except 2-0-0 oc purlins (5-0-9 max.): 3-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 10=0-5-8
Max Horz 1=123(LC 5)
Max Uplift 1=-1221(LC 8), 10=-951(LC 9)
Max Grav 1=4243(LC 1), 10=3819(LC 1)

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

TOP CHORD	1-2=-7297/2145, 2-3=-5944/1789, 3-4=-5826/1731, 4-5=-5826/1731, 5-6=-5477/1599, 6-7=-5477/1599, 7-8=-4939/1410, 8-10=-5126/1368
BOT CHORD	1-19=-1848/6029, 18-19=-1848/6029, 16-18=-1487/4863, 15-16=-1759/6041, 14-15=-1759/6041, 12-14=-1081/4169, 11-12=-1070/4240, 10-11=-1070/4240
WEBS	2-19=-102/611, 2-18=-1466/520, 3-18=-469/1438, 3-16=-451/1540, 4-16=-289/103, 5-16=-373/130, 5-15=-189/705, 5-14=-918/355, 6-14=-305/113, 7-14=-700/2077, 7-12=-219/800

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=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
5) Provide adequate drainage to prevent water ponding.
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) except (jt=lb) 1=1221, 10=951.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 341 lb down and 142 lb up at 2-1-8, 354 lb down and 190 lb up at 4-1-8, 288 lb down and 166 lb up at 6-1-8, and 312 lb down and 182 lb up at 8-1-8, and 379 lb down and 109 lb up at 35-10-8 on top chord, and 300 lb down and 88 lb up at 3-4-12, 201 lb down and 62 lb up at 5-4-12, 228 lb down and 100 lb up at 7-4-12, 228 lb down and 100 lb up at 9-4-12, 228 lb down and 100 lb up at 11-4-12, 228 lb down and 100 lb up at 13-4-12, 228 lb down and 100 lb up at 15-4-12, 228 lb down and 100 lb up at 17-4-12, 228 lb down and 100 lb up at 19-2-12, 228 lb down and 100 lb up at 20-11-4, 228 lb down and 100 lb up at 22-11-4, 228 lb down and 100 lb up at 24-11-4, 228 lb down and 100 lb up at 26-11-4, 228 lb down and 100 lb up at 28-11-4, 201 lb down and 100 lb up at 30-11-4, and 201 lb down and 62 lb up at 32-11-4, and 230 lb down and 92 lb up at 34-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 7-10=-60, 1-22=-20

Concentrated Loads (lb)

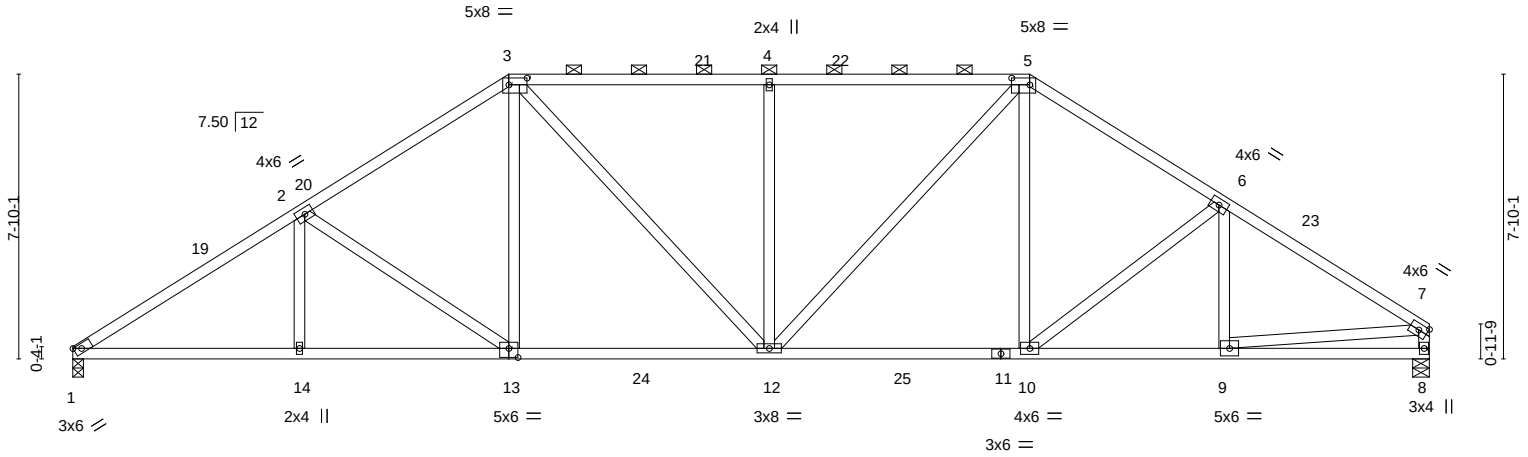
Vert: 18=-201(F) 15=-201(F) 12=-201(F) 11=-201(F) 9=-339 26=-287 27=-314 28=-248 29=-272 30=-82 31=-300(F) 32=-201(F) 33=-201(F) 34=-201(F) 35=-201(F) 36=-201(F) 37=-201(F) 38=-201(F) 39=-201(F) 40=-201(F) 41=-201(F) 42=-201(F) 43=-230(F)

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	D02	HIP	1	1	I64737220
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:32 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-2-14	12-0-0	19-2-0	26-4-0	31-8-4	37-4-0
6-2-14	5-9-2	7-2-0	7-2-0	5-4-4	5-7-12

Scale: 3/16"=1'



6-2-14	12-0-0	19-2-0	26-4-0	31-8-4	37-4-0
6-2-14	5-9-2	7-2-0	7-2-0	5-4-4	5-7-12

Plate Offsets (X,Y)-- [1:0-2-7,Edge], [3:0-6-0,0-2-4], [5:0-6-0,0-2-4], [13:0-3-0,0-3-0]

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	0.77	Vert(LL)	-0.14	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.29	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.08	12-13	>999	240	Weight: 219 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-11 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 8=0-5-8
Max Horz 1=169(LC 11)
Max Uplift 1=-100(LC 12), 8=-95(LC 13)
Max Grav 1=1485(LC 1), 8=1482(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2420/197, 2-3=-1997/226, 3-4=-1871/249, 4-5=-1871/249, 5-6=-1894/224, 6-7=-2095/175, 7-8=-1422/138
BOT CHORD 1-14=-183/1979, 13-14=-183/1979, 12-13=-78/1607, 10-12=-34/1531, 9-10=-94/1707
WEBS 2-13=-470/151, 3-13=-5/484, 3-12=-144/494, 4-12=-496/183, 5-12=-136/587, 5-10=-2/376, 6-10=-277/126, 7-9=-66/1517

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) 0-1-12 to 3-10-9, Interior(1) 3-10-9 to 12-0-0, Exterior(2) 12-0-0 to 17-3-5, Interior(1) 17-3-5 to 26-4-0, Exterior(2) 26-4-0 to 31-8-4, Interior(1) 31-8-4 to 37-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 1=100.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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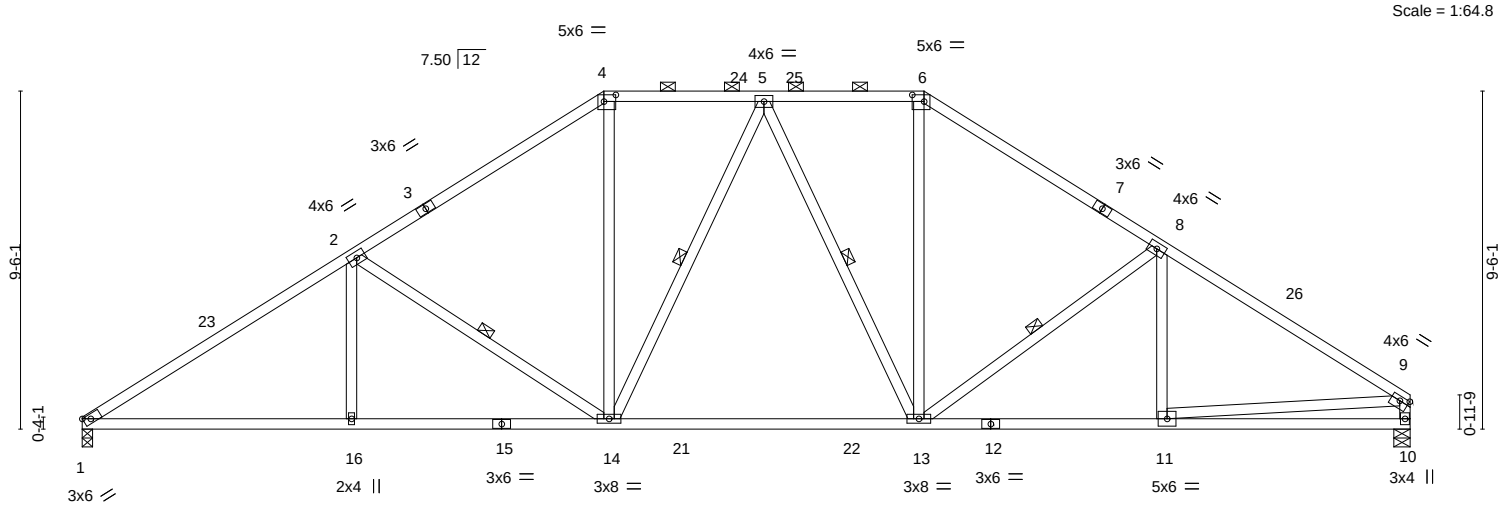
Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	D03	HIP	1	1	I64737221
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:33 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7-6-14	14-8-0	19-2-0	23-8-0	30-4-4	37-4-0
7-6-14	7-1-2	4-6-0	4-6-0	6-8-4	6-11-12

Scale = 1:64.8



7-6-14	14-8-0	23-8-0	30-4-4	37-4-0
7-6-14	7-1-2	9-0-0	6-8-4	6-11-12

Plate Offsets (X,Y)-- [1:0-2-7,Edge], [4:0-4-0,0-2-4], [6:0-4-0,0-2-4], [9:0-3-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.27	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.47	13-14	>946	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.08	16-18	>999	240	Weight: 223 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-2 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 13-14.
WEBS 1 Row at midpt 2-14, 5-14, 5-13, 8-13

REACTIONS. (size) 10=0-5-8, 1=0-3-8
Max Horz 1=205(LC 11)
Max Uplift 10=-90(LC 13), 1=-95(LC 12)
Max Grav 10=1482(LC 1), 1=1485(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2381/189, 2-4=-1825/223, 4-5=-1446/230, 5-6=-1408/227, 6-8=-1773/224, 8-9=-2121/173, 9-10=-1412/139
BOT CHORD 1-16=-183/1934, 14-16=-183/1934, 13-14=-20/1489, 11-13=-78/1716, 10-11=-55/266
WEBS 2-16=0/289, 2-14=-605/193, 4-14=-15/596, 5-13=-315/153, 6-13=-22/585, 8-13=-416/170, 9-11=-43/1459

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) 0-1-12 to 3-10-9, Interior(1) 3-10-9 to 14-8-0, Exterior(2) 14-8-0 to 19-11-6, Interior(1) 19-11-6 to 23-8-0, Exterior(2) 23-8-0 to 28-11-6, Interior(1) 28-11-6 to 37-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 1.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

April 9,2024

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	D04H	HIP	1	1	I64737222
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.630 s Mar 9 2023 MiTek Industries, Inc. Tue Apr 9 10:33:38 2024 Page 1

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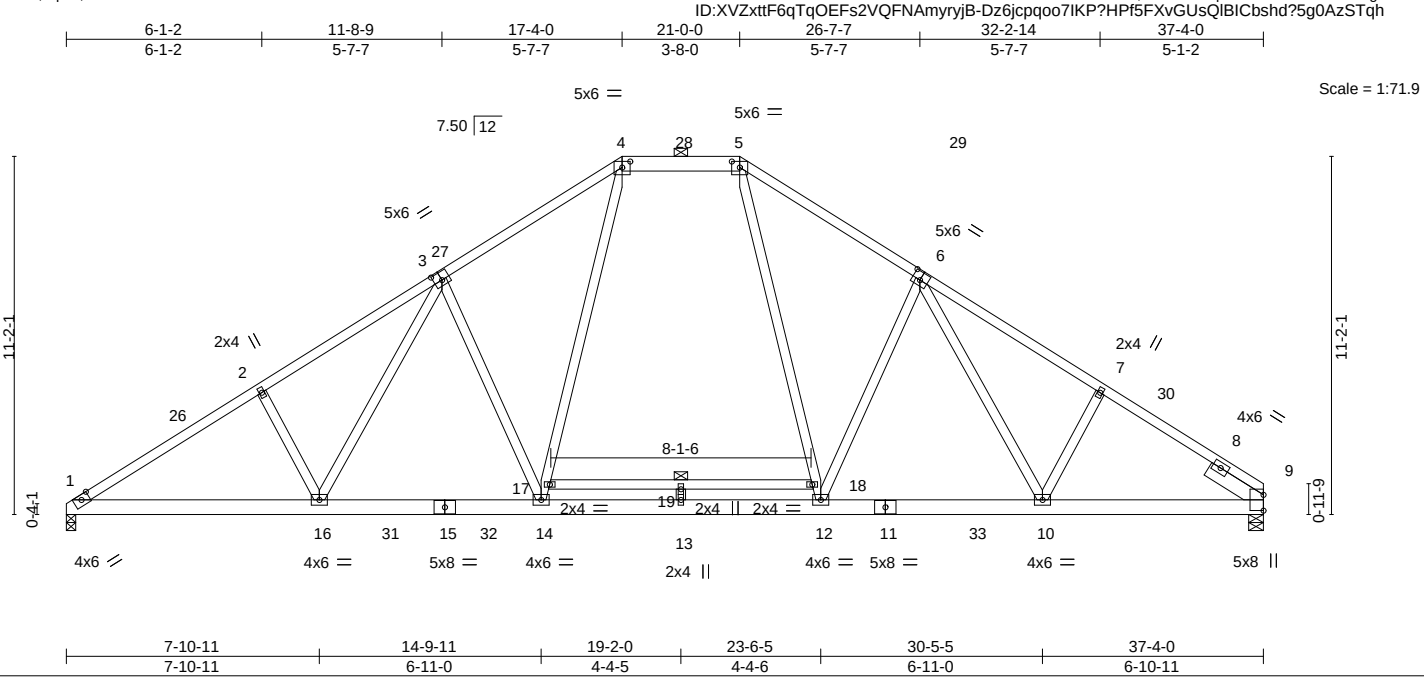

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-3-0,0-2-4], [5:0-3-0,0-2-4], [6:0-3-0,0-3-0]

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	0.82	Vert(LL)	-0.31	14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.43	14-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.22	14-16	>999	240	Weight: 261 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 4-5: 2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-8-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 17-18

REACTIONS. (lb/size) 1=1487/0-3-8 (min. 0-1-13), 9=1487/0-5-8 (min. 0-1-13)
Max Horz 1=230(LC 9)
Max Uplift 1=-90(LC 12), 9=-84(LC 13)
Max Grav 1=1550(LC 19), 9=1549(LC 20)

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

TOP CHORD	1-26=-2571/160, 2-26=-2488/177, 2-3=-2458/226, 3-27=-1935/218, 4-27=-1924/254, 4-28=-1381/236, 5-28=-1381/236, 5-29=-1905/254, 6-29=-1917/218, 6-7=-2158/211, 7-30=-2169/165, 8-30=-2253/151, 8-9=-872/0
BOT CHORD	1-16=-234/2276, 16-31=-113/1883, 15-31=-113/1883, 15-32=-113/1883, 14-32=-113/1883, 13-14=0/1473, 12-13=0/1473, 11-12=-22/1696, 11-33=-22/1696, 10-33=-22/1696, 9-10=-73/1829
WEBS	2-16=-285/153, 3-16=-114/573, 3-14=-649/262, 14-17=-73/795, 4-17=-72/862, 5-18=-68/809, 12-18=-69/741, 6-12=-511/256, 6-10=-96/279

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) 0-1-12 to 3-10-9, Interior(1) 3-10-9 to 17-4-0, Exterior(2) 17-4-0 to 26-3-5, Interior(1) 26-3-5 to 37-4-0 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
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 1 and 84 lb uplift at joint 9.
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
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)

NORTH CAROLINA PROFESSIONAL SEAL 036322 ENGINEER ERIC A. GILBERT

April 9,2024

Continued on page 2

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

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-5=-60, 5-9=-60, 1-22=-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: 1-4=-50, 4-5=-50, 5-9=-50, 1-31=-20, 31-32=-50, 11-32=-20, 11-33=-50, 22-33=-20, 17-18=-30
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-20, 4-5=-20, 5-9=-20, 1-22=-40, 17-18=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-26=20, 4-26=14, 4-5=22, 5-29=20, 9-29=14, 1-22=-12
   Horz: 1-26=-32, 4-26=-26, 5-29=32, 9-29=26
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-27=14, 4-27=20, 4-5=22, 5-30=14, 9-30=20, 1-22=-12
   Horz: 1-27=-26, 4-27=-32, 5-30=26, 9-30=32
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-4=-46, 4-5=-30, 5-9=-46, 1-22=-20
   Horz: 1-4=26, 5-9=-26
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-4=-46, 4-5=-30, 5-9=-46, 1-22=-20
   Horz: 1-4=26, 5-9=-26
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-4=-14, 4-5=22, 5-9=7, 1-22=-12
   Horz: 1-4=2, 5-9=19
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-4=7, 4-5=22, 5-9=-14, 1-22=-12
   Horz: 1-4=-19, 5-9=-2
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=-32, 4-5=4, 5-9=-11, 1-22=-20
    Horz: 1-4=12, 5-9=9
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=-11, 4-5=4, 5-9=-32, 1-22=-20
    Horz: 1-4=-9, 5-9=-12
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=22, 4-28=22, 5-28=7, 5-9=7, 1-22=-12
    Horz: 1-4=-34, 5-9=19
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=7, 4-28=7, 5-28=22, 5-9=22, 1-22=-12
    Horz: 1-4=-19, 5-9=34
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=11, 4-28=11, 5-28=3, 5-9=3, 1-22=-12
    Horz: 1-4=-23, 5-9=15
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=3, 4-28=3, 5-28=11, 5-9=11, 1-22=-12
    Horz: 1-4=-15, 5-9=23
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=4, 4-28=4, 5-28=-11, 5-9=-11, 1-22=-20
    Horz: 1-4=-24, 5-9=9
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=-11, 4-28=-11, 5-28=4, 5-9=4, 1-22=-20
    Horz: 1-4=-9, 5-9=24
18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
    Uniform Loads (plf)
    Vert: 1-4=-20, 4-5=-20, 5-9=-20, 1-31=-20, 31-32=-60, 11-32=-20, 11-33=-60, 22-33=-20, 17-18=-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: 1-4=-59, 4-5=-32, 5-9=-43, 1-31=-20, 31-32=-50, 11-32=-20, 11-33=-50, 22-33=-20, 17-18=-30
    Horz: 1-4=9, 5-9=7
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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LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-4=-43, 4-5=-32, 5-9=-59, 1-31=-20, 31-32=-50, 11-32=-20, 11-33=-50, 22-33=-20, 17-18=-30
Horz: 1-4=-7, 5-9=-9

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: 1-4=-32, 4-28=-32, 5-28=-43, 5-9=-43, 1-31=-20, 31-32=-50, 11-32=-20, 11-33=-50, 22-33=-20, 17-18=-30
Horz: 1-4=-18, 5-9=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: 1-4=-43, 4-28=-43, 5-28=-32, 5-9=-32, 1-31=-20, 31-32=-50, 11-32=-20, 11-33=-50, 22-33=-20, 17-18=-30
Horz: 1-4=-7, 5-9=18

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-60, 5-9=-20, 1-22=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-20, 4-5=-60, 5-9=-60, 1-22=-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: 1-4=-50, 4-5=-50, 5-9=-20, 1-31=-20, 31-32=-50, 11-32=-20, 11-33=-50, 22-33=-20, 17-18=-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: 1-4=-20, 4-5=-50, 5-9=-50, 1-31=-20, 31-32=-50, 11-32=-20, 11-33=-50, 22-33=-20, 17-18=-30

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	D05H	HIP	4	1	I64737223
					Job Reference (optional)

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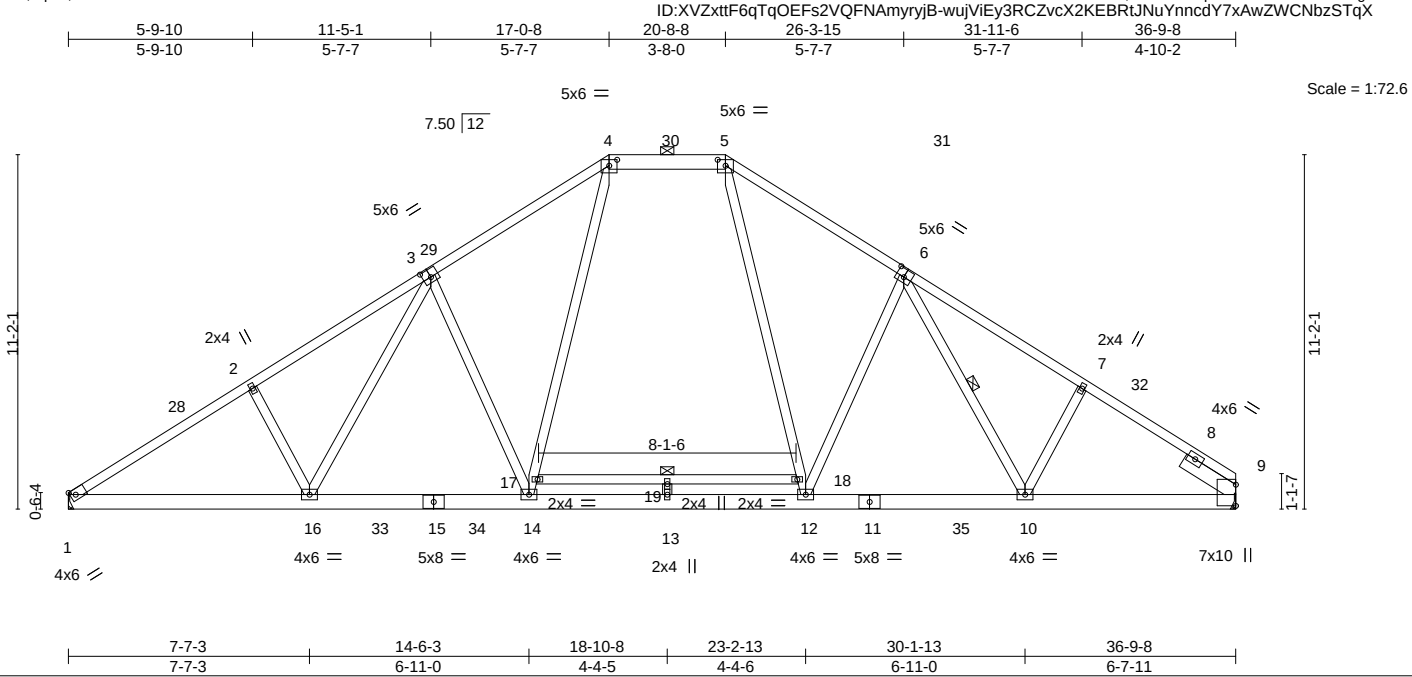

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-3-0,0-2-4], [5:0-3-0,0-2-4], [6:0-3-0,0-3-0]

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	0.89	Vert(LL)	-0.30	14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.41	14-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.22	14-16	>999	240	Weight: 259 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 4-5: 2x6 SP No.2
BOT CHORD	2x6 SP 2400F 2.0E or 2x6 SP DSS *Except* 11-15: 2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-5-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 6-10, 17-18

REACTIONS. (lb/size) 1=1470/Mechanical, 9=1468/Mechanical
Max Horz 1=226(LC 9)
Max Uplift 1=-88(LC 12), 9=-83(LC 13)
Max Grav 1=1534(LC 19), 9=1531(LC 20)

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

TOP CHORD	1-28=-2462/155, 2-28=-2373/172, 2-3=-2347/222, 3-29=-1891/216, 4-29=-1880/252, 4-30=-1348/234, 5-30=-1348/234, 5-31=-1860/252, 6-31=-1871/216, 6-7=-2044/205, 7-32=-2072/159, 8-32=-2136/145, 8-9=-635/0
BOT CHORD	1-16=-232/2175, 16-33=-113/1829, 15-33=-113/1829, 15-34=-113/1829, 14-34=-113/1829, 13-14=0/1438, 12-13=0/1438, 11-12=-24/1641, 11-35=-24/1641, 10-35=-24/1641, 9-10=-71/1726
WEBS	2-16=-268/152, 3-16=-110/489, 3-14=-611/260, 14-17=-71/773, 4-17=-69/839, 5-18=-65/781, 12-18=-67/715, 6-12=-476/254

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) 0-4-8 to 4-1-5, Interior(1) 4-1-5 to 17-4-0, Exterior(2) 17-4-0 to 26-3-5, Interior(1) 26-3-5 to 37-1-0 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 1 and 83 lb uplift at joint 9.
8) 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.
9) N/A
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

April 9,2024

LOAD CASE(S)

Continued on page 2

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

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-22=-60, 4-5=-60, 5-9=-60, 1-24=-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: 4-22=-50, 4-5=-50, 5-9=-50, 1-33=-20, 33-34=-50, 11-34=-20, 11-35=-50, 24-35=-20, 17-18=-30
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 4-22=-20, 4-5=-20, 5-9=-20, 1-24=-40, 17-18=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 22-28=20, 4-28=14, 4-5=22, 5-31=20, 9-31=14, 1-24=-12
   Horz: 22-28=-32, 4-28=-26, 5-31=32, 9-31=26
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 22-29=14, 4-29=20, 4-5=22, 5-32=14, 9-32=20, 1-24=-12
   Horz: 22-29=-26, 4-29=-32, 5-32=26, 9-32=32
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-22=-46, 4-5=-30, 5-9=-46, 1-24=-20
   Horz: 4-22=26, 5-9=-26
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-22=-46, 4-5=-30, 5-9=-46, 1-24=-20
   Horz: 4-22=26, 5-9=-26
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-22=-14, 4-5=22, 5-9=7, 1-24=-12
   Horz: 4-22=2, 5-9=19
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-22=7, 4-5=22, 5-9=-14, 1-24=-12
   Horz: 4-22=-19, 5-9=-2
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-22=-32, 4-5=4, 5-9=-11, 1-24=-20
    Horz: 4-22=12, 5-9=9
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-22=-11, 4-5=4, 5-9=-32, 1-24=-20
    Horz: 4-22=-9, 5-9=-12
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-22=22, 4-30=22, 5-30=7, 5-9=7, 1-24=-12
    Horz: 4-22=-34, 5-9=19
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-22=7, 4-30=7, 5-30=22, 5-9=22, 1-24=-12
    Horz: 4-22=-19, 5-9=34
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-22=11, 4-30=11, 5-30=3, 5-9=3, 1-24=-12
    Horz: 4-22=-23, 5-9=15
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-22=3, 4-30=3, 5-30=11, 5-9=11, 1-24=-12
    Horz: 4-22=-15, 5-9=23
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-22=4, 4-30=4, 5-30=-11, 5-9=-11, 1-24=-20
    Horz: 4-22=-24, 5-9=9
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-22=-11, 4-30=-11, 5-30=4, 5-9=4, 1-24=-20
    Horz: 4-22=-9, 5-9=24
18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
    Uniform Loads (plf)
    Vert: 4-22=-20, 4-5=-20, 5-9=-20, 1-33=-20, 33-34=-60, 11-34=-20, 11-35=-60, 24-35=-20, 17-18=-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: 4-22=-59, 4-5=-32, 5-9=-43, 1-33=-20, 33-34=-50, 11-34=-20, 11-35=-50, 24-35=-20, 17-18=-30
    Horz: 4-22=9, 5-9=7
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

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LOAD CASE(S)

Uniform Loads (plf)
Vert: 4-22=-43, 4-5=-32, 5-9=-59, 1-33=-20, 33-34=-50, 11-34=-20, 11-35=-50, 24-35=-20, 17-18=-30
Horz: 4-22=-7, 5-9=-9

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: 4-22=-32, 4-30=-32, 5-30=-43, 5-9=-43, 1-33=-20, 33-34=-50, 11-34=-20, 11-35=-50, 24-35=-20, 17-18=-30
Horz: 4-22=-18, 5-9=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: 4-22=-43, 4-30=-43, 5-30=-32, 5-9=-32, 1-33=-20, 33-34=-50, 11-34=-20, 11-35=-50, 24-35=-20, 17-18=-30
Horz: 4-22=-7, 5-9=18

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-22=-60, 4-5=-60, 5-9=-20, 1-24=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-22=-20, 4-5=-60, 5-9=-60, 1-24=-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: 4-22=-50, 4-5=-50, 5-9=-20, 1-33=-20, 33-34=-50, 11-34=-20, 11-35=-50, 24-35=-20, 17-18=-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: 4-22=-20, 4-5=-50, 5-9=-50, 1-33=-20, 33-34=-50, 11-34=-20, 11-35=-50, 24-35=-20, 17-18=-30

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek	I64737224
FNC133-R	D06H	HIP	2	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

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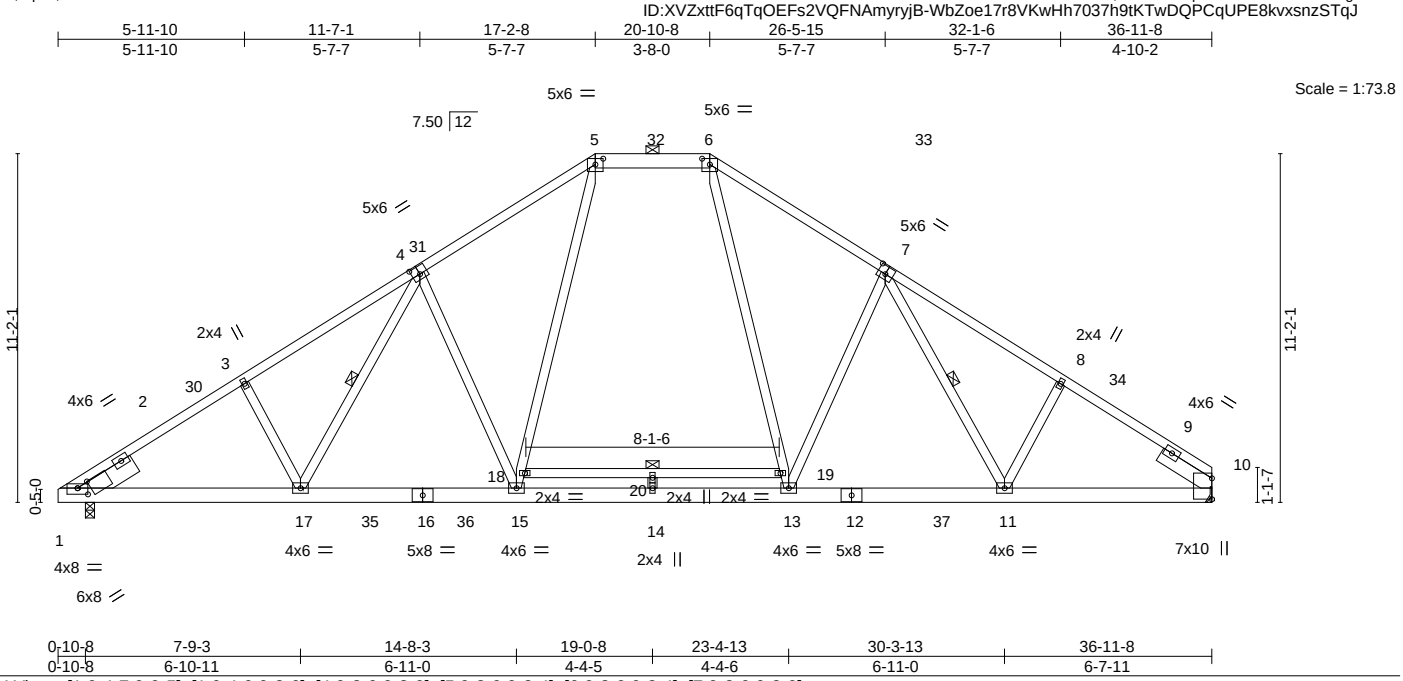

Plate Offsets (X,Y)-- [1:0-4-7,0-0-5], [1:0-4-0,0-2-6], [4:0-3-0,0-3-0], [5:0-3-0,0-2-4], [6:0-3-0,0-2-4], [7:0-3-0,0-3-0]

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	0.95	Vert(LL)	-0.28	15-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.38	15-17	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.20	15-17	>999	240	Weight: 266 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 5-6: 2x6 SP No.2
BOT CHORD	2x6 SP 2400F 2.0E or 2x6 SP DSS *Except* 12-16: 2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP 2400F 2.0E or DSS 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-11-14 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-17, 7-11, 18-19

REACTIONS. (lb/size) 1=1457/0-3-8 (min. 0-1-13), 10=1437/Mechanical
Max Horz 1=217(LC 9)
Max Uplift 1=-72(LC 12), 10=-83(LC 13)
Max Grav 1=1522(LC 19), 10=1500(LC 20)

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

TOP CHORD	1-2=-370/0, 2-30=-2134/145, 3-30=-2057/159, 3-4=-2033/205, 4-31=-1814/213, 5-31=-1803/249, 5-32=-1297/232, 6-32=-1297/232, 6-33=-1798/249, 7-33=-1809/213, 7-8=-2000/202, 8-34=-2029/157, 9-34=-2092/143, 9-10=-615/0
BOT CHORD	1-17=-214/1885, 17-35=-107/1712, 16-35=-107/1712, 16-36=-107/1712, 15-36=-107/1712, 14-15=0/1383, 13-14=0/1383, 12-13=-22/1593, 12-37=-22/1593, 11-37=-22/1593, 10-11=-70/1689
WEBS	4-15=-501/254, 15-18=-68/716, 5-18=-66/781, 6-19=-65/767, 13-19=-67/702, 7-13=-487/254

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) 1-1-12 to 4-10-9, Interior(1) 4-10-9 to 17-4-0, Exterior(2) 17-4-0 to 26-3-5, Interior(1) 26-3-5 to 37-1-0 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 1 and 83 lb uplift at joint 10.
8) 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.
9) N/A
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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LOAD CASE(S)

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LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 5-23=-60, 5-6=-60, 6-10=-60, 1-26=-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: 5-23=-50, 5-6=-50, 6-10=-50, 1-35=-20, 35-36=-50, 12-36=-20, 12-37=-50, 26-37=-20, 18-19=-30
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 5-23=-20, 5-6=-20, 6-10=-20, 1-26=-40, 18-19=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 23-30=20, 5-30=14, 5-6=22, 6-33=20, 10-33=14, 1-26=-12
   Horz: 23-30=-32, 5-30=-26, 6-33=32, 10-33=26
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 23-31=14, 5-31=20, 5-6=22, 6-34=14, 10-34=20, 1-26=-12
   Horz: 23-31=-26, 5-31=-32, 6-34=26, 10-34=32
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 5-23=-46, 5-6=-30, 6-10=-46, 1-26=-20
   Horz: 5-23=26, 6-10=-26
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 5-23=-46, 5-6=-30, 6-10=-46, 1-26=-20
   Horz: 5-23=26, 6-10=-26
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 5-23=-14, 5-6=22, 6-10=7, 1-26=-12
   Horz: 5-23=2, 6-10=19
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 5-23=7, 5-6=22, 6-10=-14, 1-26=-12
   Horz: 5-23=-19, 6-10=-2
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 5-23=-32, 5-6=4, 6-10=-11, 1-26=-20
    Horz: 5-23=12, 6-10=9
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 5-23=-11, 5-6=4, 6-10=-32, 1-26=-20
    Horz: 5-23=-9, 6-10=-12
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 5-23=22, 5-32=22, 6-32=7, 6-10=7, 1-26=-12
    Horz: 5-23=-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: 5-23=7, 5-32=7, 6-32=22, 6-10=22, 1-26=-12
    Horz: 5-23=-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: 5-23=11, 5-32=11, 6-32=3, 6-10=3, 1-26=-12
    Horz: 5-23=-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: 5-23=3, 5-32=3, 6-32=11, 6-10=11, 1-26=-12
    Horz: 5-23=-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: 5-23=4, 5-32=4, 6-32=-11, 6-10=-11, 1-26=-20
    Horz: 5-23=-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: 5-23=-11, 5-32=-11, 6-32=4, 6-10=4, 1-26=-20
    Horz: 5-23=-9, 6-10=24
18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
    Uniform Loads (plf)
    Vert: 5-23=-20, 5-6=-20, 6-10=-20, 1-35=-20, 35-36=-60, 12-36=-20, 12-37=-60, 26-37=-20, 18-19=-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: 5-23=-59, 5-6=-32, 6-10=-43, 1-35=-20, 35-36=-50, 12-36=-20, 12-37=-50, 26-37=-20, 18-19=-30
    Horz: 5-23=9, 6-10=7
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

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LOAD CASE(S)

Uniform Loads (plf)
Vert: 5-23=-43, 5-6=-32, 6-10=-59, 1-35=-20, 35-36=-50, 12-36=-20, 12-37=-50, 26-37=-20, 18-19=-30
Horz: 5-23=-7, 6-10=-9

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: 5-23=-32, 5-32=-32, 6-32=-43, 6-10=-43, 1-35=-20, 35-36=-50, 12-36=-20, 12-37=-50, 26-37=-20, 18-19=-30
Horz: 5-23=-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: 5-23=-43, 5-32=-43, 6-32=-32, 6-10=-32, 1-35=-20, 35-36=-50, 12-36=-20, 12-37=-50, 26-37=-20, 18-19=-30
Horz: 5-23=-7, 6-10=18

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-23=-60, 5-6=-60, 6-10=-20, 1-26=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-23=-20, 5-6=-60, 6-10=-60, 1-26=-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: 5-23=-50, 5-6=-50, 6-10=-20, 1-35=-20, 35-36=-50, 12-36=-20, 12-37=-50, 26-37=-20, 18-19=-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: 5-23=-20, 5-6=-50, 6-10=-50, 1-35=-20, 35-36=-50, 12-36=-20, 12-37=-50, 26-37=-20, 18-19=-30

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	D07H	HIP	2	1	I64737225
					Job Reference (optional)

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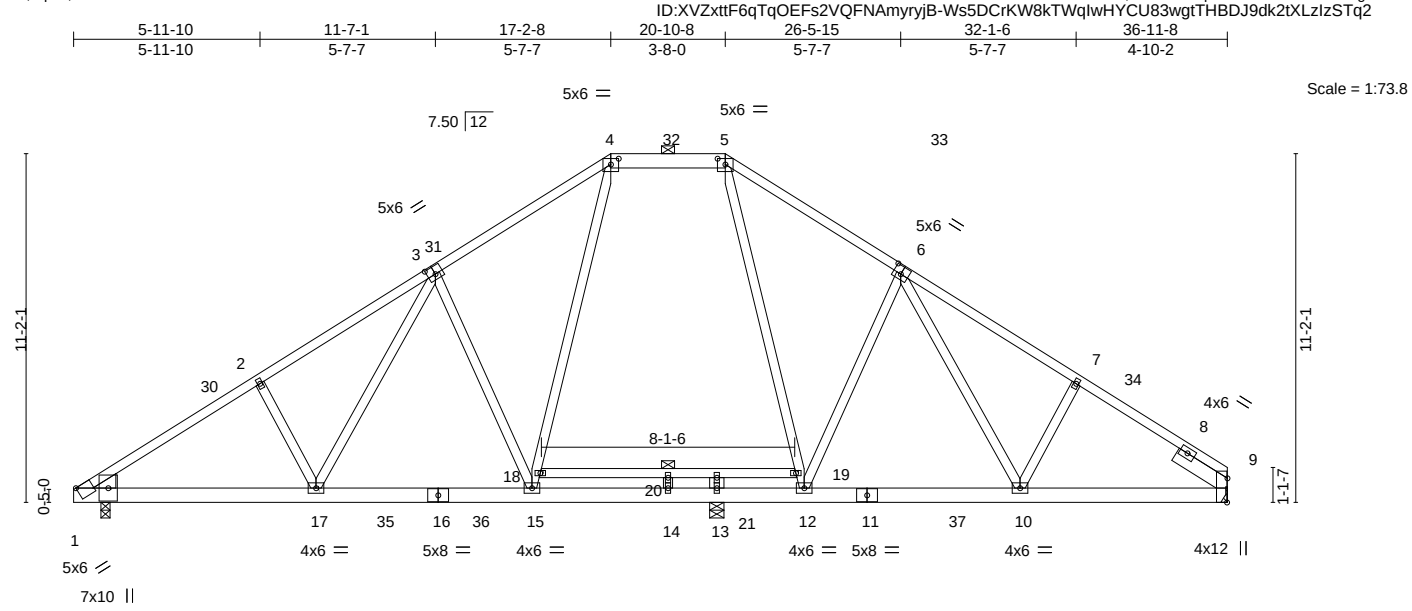

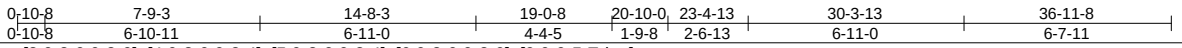

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-3-0,0-2-4], [5:0-3-0,0-2-4], [6:0-3-0,0-3-0], [9:0-9-5,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.29	15-17	>845	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.45	15-17	>545	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.21	15-17	>999	240	Weight: 262 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except* 4-5: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 13-21: 2x6 SP No.2
WEDGE
Left: 2x6 SP No.2
SLIDER Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-2 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 18-19

REACTIONS. (lb/size) 9=1195/Mechanical, 1=1255/0-3-8 (min. 0-1-9), 13=444/0-5-8 (min. 0-1-8)
Max Horz 1=217(LC 9)
Max Uplift 9=-65(LC 12), 1=-126(LC 12), 13=-99(LC 13)
Max Grav 9=1195(LC 1), 1=1325(LC 19), 13=659(LC 20)

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

TOP CHORD 1-30=-1858/209, 2-30=-1768/235, 2-3=-1755/283, 3-31=-1400/265, 4-31=-1389/298, 4-32=-969/262, 5-32=-969/262, 5-33=-1318/302, 6-33=-1330/266, 6-7=-1527/220, 7-34=-1560/174, 8-34=-1623/161, 8-9=-380/10
BOT CHORD 1-17=-279/1646, 17-35=-190/1408, 16-35=-190/1408, 16-36=-190/1408, 15-36=-190/1408, 14-15=-77/1068, 13-14=-77/1068, 12-13=-77/1068, 11-12=-93/1232, 11-37=-93/1232, 10-37=-93/1232, 9-10=-84/1325
WEBS 3-17=-60/333, 3-15=-561/232, 15-18=-105/564, 4-18=-110/622, 5-19=-73/393, 12-19=-71/397, 6-12=-533/261, 6-10=-115/356

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) 1-1-12 to 4-10-9, Interior(1) 4-10-9 to 17-4-0, Exterior(2) 17-4-0 to 26-3-5, Interior(1) 26-3-5 to 37-1-0 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) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 9, 126 lb uplift at joint 1 and 99 lb uplift at joint 13.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) N/A

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NOTES-

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

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-28=-60, 4-5=-60, 5-9=-60, 1-22=-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: 4-28=-50, 4-5=-50, 5-9=-50, 1-35=-20, 35-36=-50, 11-36=-20, 11-37=-50, 22-37=-20, 18-19=-30
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 4-28=-20, 4-5=-20, 5-9=-20, 1-22=-40, 18-19=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 28-30=20, 4-30=14, 4-5=22, 5-33=20, 9-33=14, 1-22=-12
   Horz: 28-30=-32, 4-30=-26, 5-33=32, 9-33=26
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 28-31=14, 4-31=20, 4-5=22, 5-34=14, 9-34=20, 1-22=-12
   Horz: 28-31=-26, 4-31=-32, 5-34=26, 9-34=32
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-28=-46, 4-5=-30, 5-9=-46, 1-22=-20
   Horz: 4-28=26, 5-9=-26
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-28=-46, 4-5=-30, 5-9=-46, 1-22=-20
   Horz: 4-28=26, 5-9=-26
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-28=-14, 4-5=22, 5-9=7, 1-22=-12
   Horz: 4-28=2, 5-9=19
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 4-28=7, 4-5=22, 5-9=-14, 1-22=-12
   Horz: 4-28=-19, 5-9=-2
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-28=-32, 4-5=4, 5-9=-11, 1-22=-20
    Horz: 4-28=12, 5-9=9
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-28=-11, 4-5=4, 5-9=-32, 1-22=-20
    Horz: 4-28=-9, 5-9=-12
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-28=22, 4-32=22, 5-32=7, 5-9=7, 1-22=-12
    Horz: 4-28=-34, 5-9=19
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-28=7, 4-32=7, 5-32=22, 5-9=22, 1-22=-12
    Horz: 4-28=-19, 5-9=34
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-28=11, 4-32=11, 5-32=3, 5-9=3, 1-22=-12
    Horz: 4-28=-23, 5-9=15
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-28=3, 4-32=3, 5-32=11, 5-9=11, 1-22=-12
    Horz: 4-28=-15, 5-9=23
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-28=4, 4-32=4, 5-32=-11, 5-9=-11, 1-22=-20
    Horz: 4-28=-24, 5-9=9
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 4-28=-11, 4-32=-11, 5-32=4, 5-9=4, 1-22=-20
    Horz: 4-28=-9, 5-9=24
18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
    Uniform Loads (plf)
    Vert: 4-28=-20, 4-5=-20, 5-9=-20, 1-35=-20, 35-36=-60, 11-36=-20, 11-37=-60, 22-37=-20, 18-19=-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: 4-28=-59, 4-5=-32, 5-9=-43, 1-35=-20, 35-36=-50, 11-36=-20, 11-37=-50, 22-37=-20, 18-19=-30
    Horz: 4-28=9, 5-9=7

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LOAD CASE(S)

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
Uniform Loads (plf)
Vert: 4-28=-43, 4-5=-32, 5-9=-59, 1-35=-20, 35-36=-50, 11-36=-20, 11-37=-50, 22-37=-20, 18-19=-30
Horz: 4-28=-7, 5-9=-9

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: 4-28=-32, 4-32=-32, 5-32=-43, 5-9=-43, 1-35=-20, 35-36=-50, 11-36=-20, 11-37=-50, 22-37=-20, 18-19=-30
Horz: 4-28=-18, 5-9=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: 4-28=-43, 4-32=-43, 5-32=-32, 5-9=-32, 1-35=-20, 35-36=-50, 11-36=-20, 11-37=-50, 22-37=-20, 18-19=-30
Horz: 4-28=-7, 5-9=18

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-28=-60, 4-5=-60, 5-9=-20, 1-22=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-28=-20, 4-5=-60, 5-9=-60, 1-22=-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: 4-28=-50, 4-5=-50, 5-9=-20, 1-35=-20, 35-36=-50, 11-36=-20, 11-37=-50, 22-37=-20, 18-19=-30

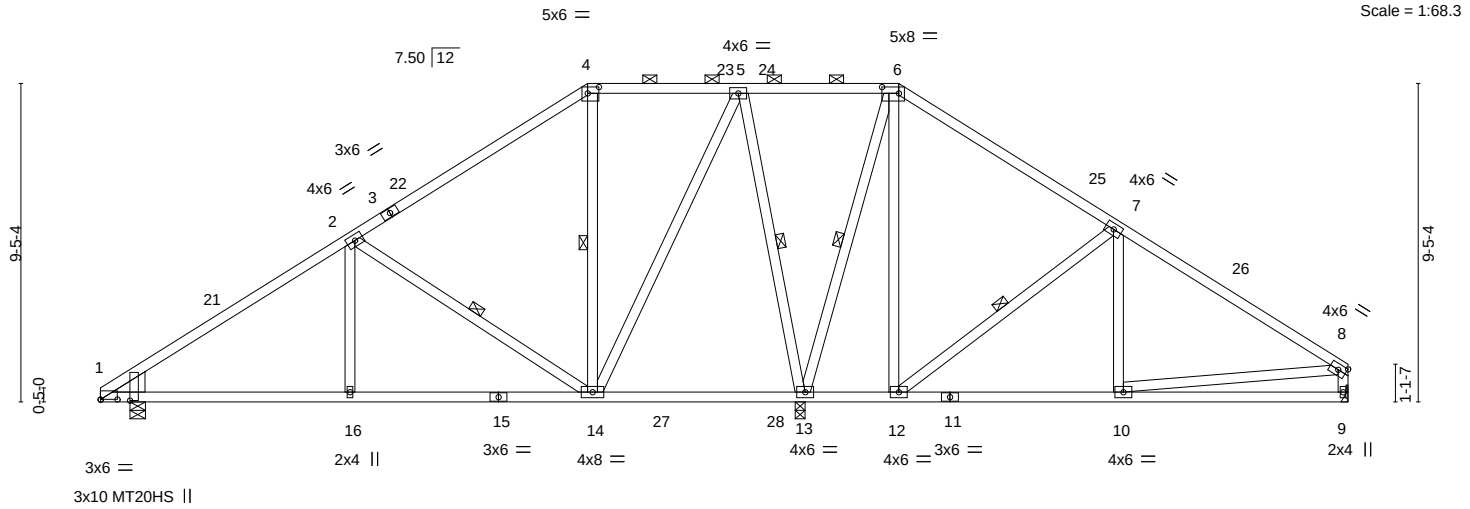
26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-28=-20, 4-5=-50, 5-9=-50, 1-35=-20, 35-36=-50, 11-36=-20, 11-37=-50, 22-37=-20, 18-19=-30

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	D08	HIP	1	1	I64737226
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:36 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7-4-11	14-5-3	19-0-8	23-7-13	30-1-15	36-11-8
7-4-11	7-0-8	4-7-5	4-7-5	6-6-2	6-9-10

Scale = 1:68.3



0-10-8	7-4-11	14-5-3	20-8-12	23-7-13	30-1-15	36-11-8
0-10-8	6-6-3	7-0-8	6-3-9	2-11-1	6-6-2	6-9-10

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.06	14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.14	14-16	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	14-16	>999	240	Weight: 237 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x8 SP 2400F 2.0E or DSS

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-14, 4-14, 5-13, 6-13, 7-12

REACTIONS. (size) 9=Mechanical, 1=0-5-8, 13=0-3-8
Max Horz 1=205(LC 11)
Max Uplift 9=-82(LC 13), 1=-84(LC 12), 13=-34(LC 12)
Max Grav 9=451(LC 24), 1=651(LC 23), 13=1970(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-653/124, 5-6=0/525, 6-7=-0/393, 7-8=-465/128, 8-9=-393/116
BOT CHORD 1-16=-149/542, 14-16=-149/542, 13-14=-371/115, 12-13=-290/99, 10-12=-66/316
WEBS 2-16=0/255, 2-14=-517/170, 4-14=-311/60, 5-14=-75/809, 5-13=-1030/127, 6-13=-907/82, 6-12=-40/415, 7-12=-562/158, 7-10=0/296

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 3-8-6, Interior(1) 3-8-6 to 14-5-3, Exterior(2) 14-5-3 to 19-7-15, Interior(1) 19-7-15 to 23-7-13, Exterior(2) 23-7-13 to 28-10-9, Interior(1) 28-10-9 to 36-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 1, 13.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

April 9,2024

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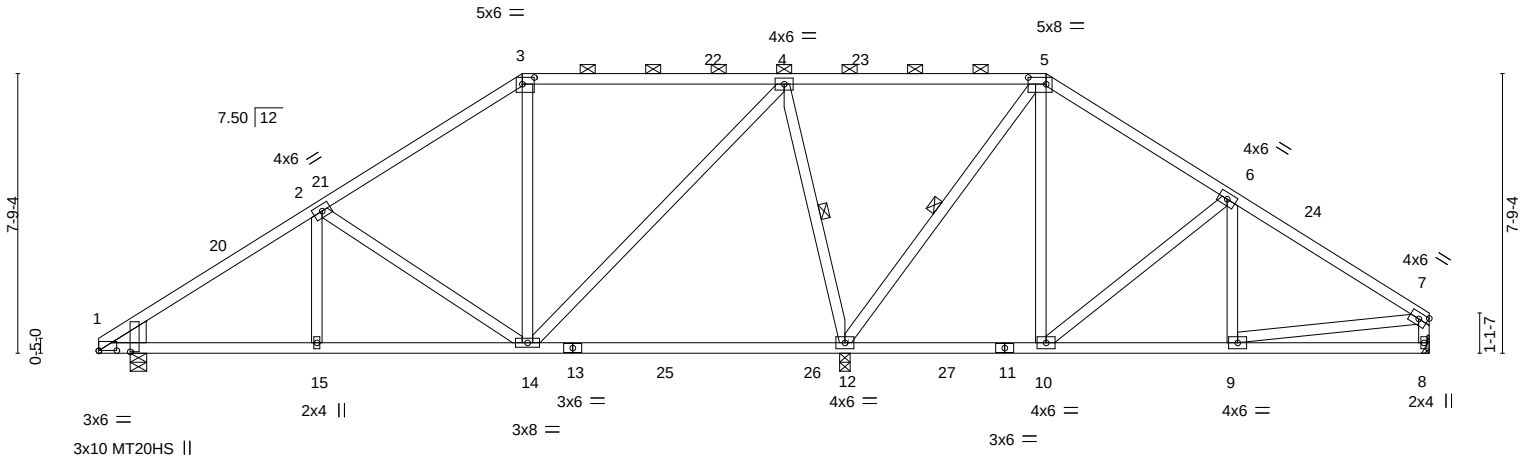
Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	D09	HIP	1	1	I64737227
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:37 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-0-11	11-9-3	19-0-8	26-3-13	31-5-15	36-11-8
6-0-11	5-8-8	7-3-5	7-3-5	5-2-2	5-5-10

Scale: 3/16"=1'



0-10-8	6-0-11	11-9-3	20-8-12	26-3-13	31-5-15	36-11-8
0-10-8	5-2-3	5-8-8	8-11-9	5-7-1	5-2-2	5-5-10

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.17	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.29	12-14	>854	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	14-15	>999	240	Weight: 219 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x8 SP 2400F 2.0E or DSS

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-12, 5-12

REACTIONS. (size) 8=Mechanical, 12=0-3-8, 1=0-5-8
Max Horz 1=170(LC 11)
Max Uplift 8=-82(LC 13), 12=-59(LC 12), 1=-79(LC 12)
Max Grav 8=446(LC 24), 12=1944(LC 1), 1=659(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-669/114, 2-3=-357/125, 4-5=0/596, 6-7=-481/124, 7-8=-397/109
BOT CHORD 1-15=-126/526, 14-15=-126/526, 12-14=-377/85, 9-10=-51/344
WEBS 2-14=-339/136, 4-14=-74/797, 4-12=-1106/177, 5-12=-882/83, 5-10=-19/385, 6-10=-414/116

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 3-8-6, Interior(1) 3-8-6 to 11-9-3, Exterior(2) 11-9-3 to 16-11-15, Interior(1) 16-11-15 to 26-3-13, Exterior(2) 26-3-13 to 31-5-15, Interior(1) 31-5-15 to 36-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 12, 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

April 9,2024

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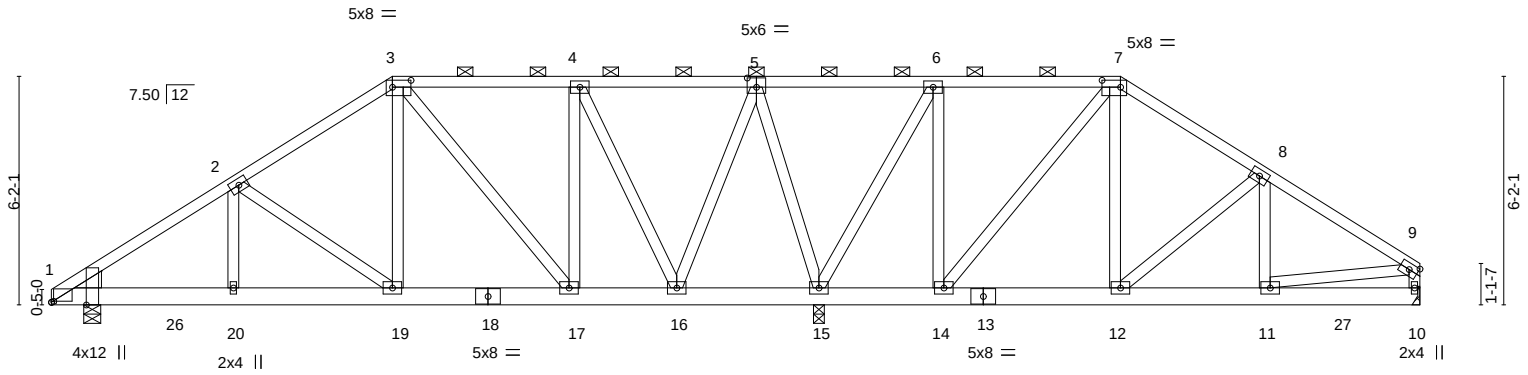
Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	D10GR	HIP	1	2	I64737228
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:37 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-11-0	9-2-8	14-1-8	19-0-8	23-11-8	28-10-8	32-9-4	36-11-8
4-11-0	4-3-9	4-11-0	4-11-0	4-11-0	4-11-0	3-10-12	4-2-4

Scale = 1:62.2



0-10-8	4-11-0	9-2-8	14-1-8	16-10-11	20-8-12	23-11-8	28-10-8	32-9-4	36-11-8
0-10-8	4-0-8	4-3-9	4-11-0	2-9-3	3-10-1	3-2-12	4-11-0	3-10-12	4-2-4

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.03	19-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.06	19-20	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.02	19-20	>999	240	Weight: 532 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16.

REACTIONS. (size) 10=Mechanical, 15=0-3-8, 1=0-5-8
Max Horz 1=133(LC 7)
Max Uplift 10=-148(LC 9), 15=-376(LC 5), 1=-187(LC 8)
Max Grav 10=1238(LC 20), 15=4041(LC 1), 1=1679(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2084/259, 2-3=-1579/234, 3-4=-917/180, 4-5=-318/94, 5-6=-71/850, 7-8=-891/178, 8-9=-1423/191, 9-10=-1026/148
BOT CHORD 1-20=-233/1703, 19-20=-233/1703, 17-19=-170/1306, 16-17=-146/917, 15-16=-326/126, 12-14=-22/722, 11-12=-122/1155
WEBS 2-20=-12/400, 2-19=-553/136, 3-19=-88/1004, 3-17=-630/80, 4-17=-64/964, 4-16=-1401/199, 5-16=-189/1703, 5-15=-1965/256, 6-15=-1784/228, 6-14=-82/1239, 7-14=-1047/113, 7-12=-92/989, 8-12=-618/133, 8-11=-20/451, 9-11=-81/963

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=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
5) Provide adequate drainage to prevent water ponding.
6) All plates are 4x6 MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=148, 15=376, 1=187.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Continued on page 2

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NOTES-

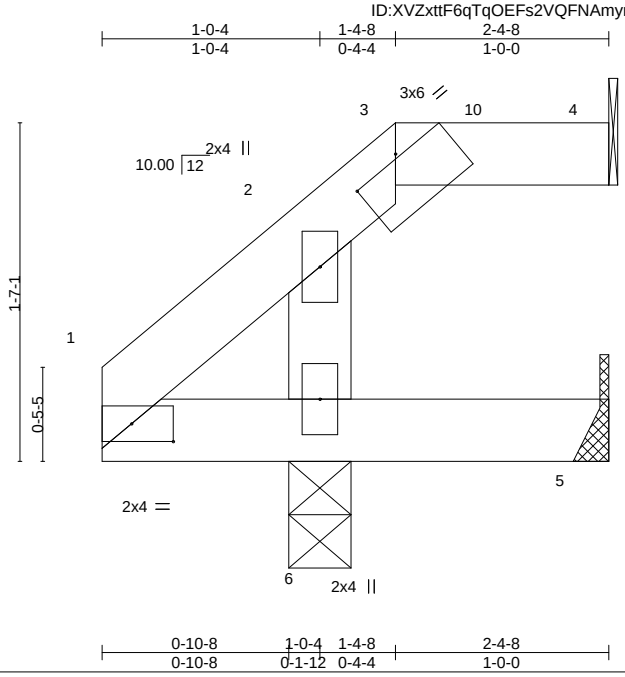
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 256 lb down and 30 lb up at 34-9-12, and 256 lb down and 30 lb up at 3-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-7=-60, 7-9=-60, 21-26=-20, 26-27=-131(F=-111), 10-27=-20
   Concentrated Loads (lb)
   Vert: 26=-249(F) 27=-249(F)

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	J01	MONO HIP	1	1	I64737229
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:38 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:10.8

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

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	6	>999	240	Weight: 9 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-8 oc purlins, except 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 6=0-3-8
Max Horz 6=40(LC 12)
Max Uplift 4=-11(LC 8), 5=-14(LC 21)
Max Grav 4=29(LC 1), 5=7(LC 10), 6=167(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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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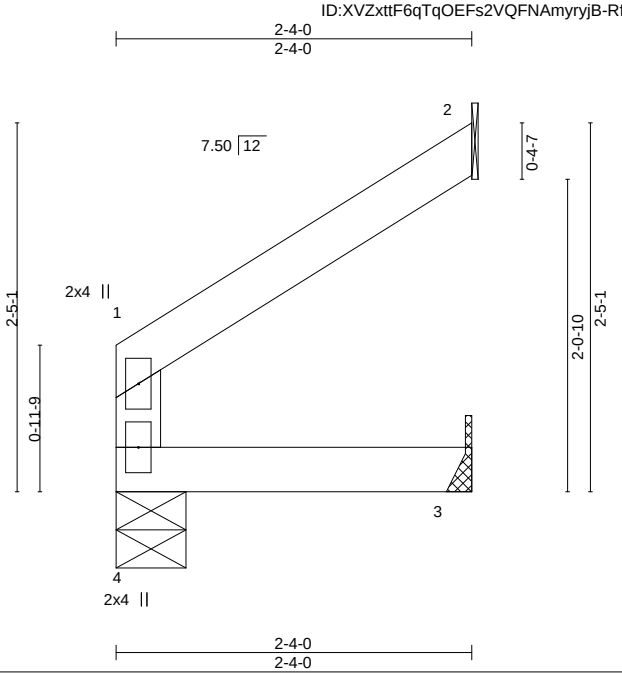
Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	J02	JACK	3	1	I64737230
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:38 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.00	3-4	>999	240	Weight: 9 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 2=Mechanical, 3=Mechanical
Max Horz 4=39(LC 9)
Max Uplift 2=-40(LC 12)
Max Grav 4=86(LC 1), 2=66(LC 19), 3=41(LC 3)

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) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.

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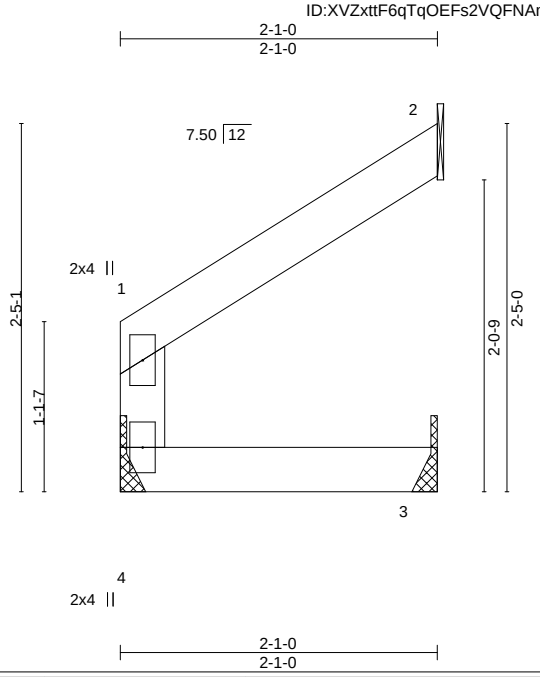
Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	J03	JACK	3	1	I64737231
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:39 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.00	3-4	>999	240	Weight: 8 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 4=39(LC 9)
Max Uplift 2=-38(LC 12), 3=-1(LC 12)
Max Grav 4=76(LC 1), 2=60(LC 19), 3=36(LC 3)

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) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.

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Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	J04	JACK	3	1	I64737232
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:39 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

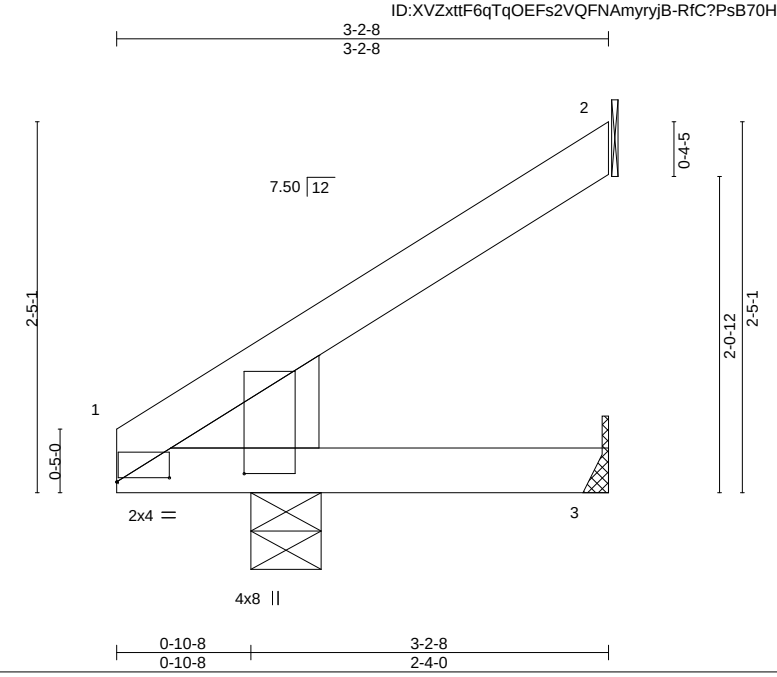

Plate Offsets (X,Y)-- [1:0-4-2,0-0-5], [1:0-0-10,0-10-0]

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	0.09	Vert(LL)	-0.01	4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x8 SP 2400F 2.0E or DSS

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=Mechanical, 3=Mechanical, 1=0-5-8
Max Horz 1=67(LC 12)
Max Uplift 2=-41(LC 12), 3=-2(LC 12)
Max Grav 2=56(LC 19), 3=28(LC 3), 1=195(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=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
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.

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Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	J05	MONO HIP	2	1	I64737233
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:39 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

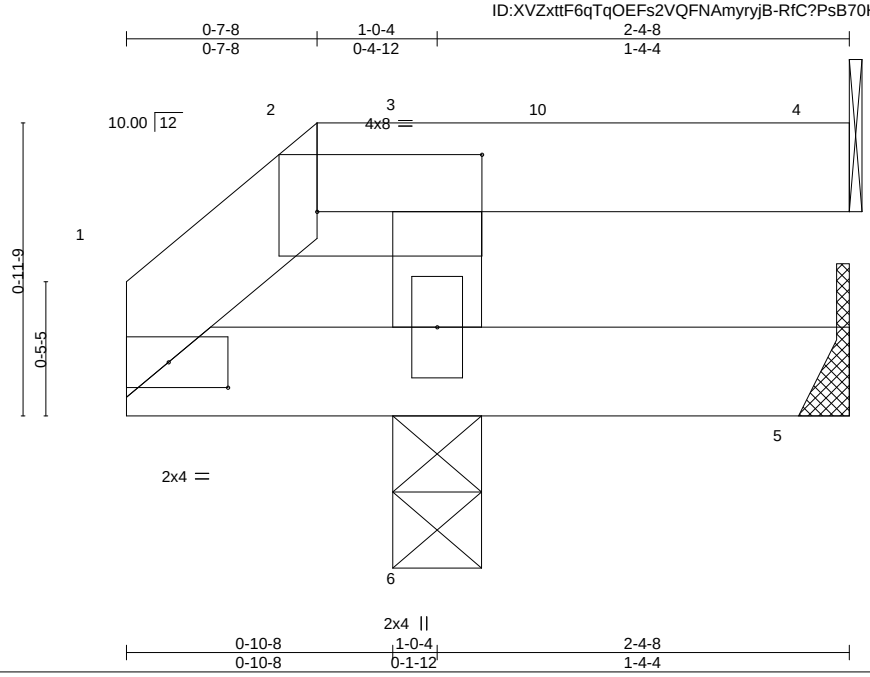

Plate Offsets (X,Y)-- [1:0-2-5,0-1-0], [2:0-6-8,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	-0.00	6	>999	240	Weight: 8 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-8 oc purlins, except 2-0-0 oc purlins: 2-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 6=0-3-8
Max Horz 6=19(LC 12)
Max Uplift 4=-14(LC 9), 5=-5(LC 1), 6=-10(LC 12)
Max Grav 4=31(LC 24), 5=9(LC 3), 6=166(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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 6.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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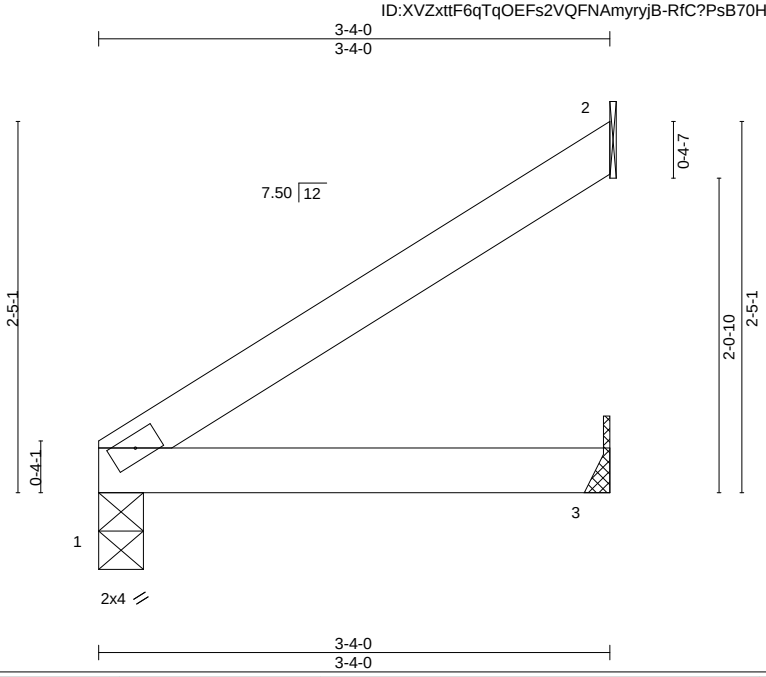
Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	J06	JACK	3	1	I64737234
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:40 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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	0.14	Vert(LL)	-0.00	3-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	3-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.01	3-5	>999	240	Weight: 11 lb	FT = 20%

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

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

REACTIONS. (size) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=66(LC 12)
Max Uplift 2=-44(LC 12)
Max Grav 1=129(LC 1), 2=87(LC 19), 3=59(LC 3)

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) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.

April 9,2024

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Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	J07	MONO HIP	3	1	I64737235
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:40 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

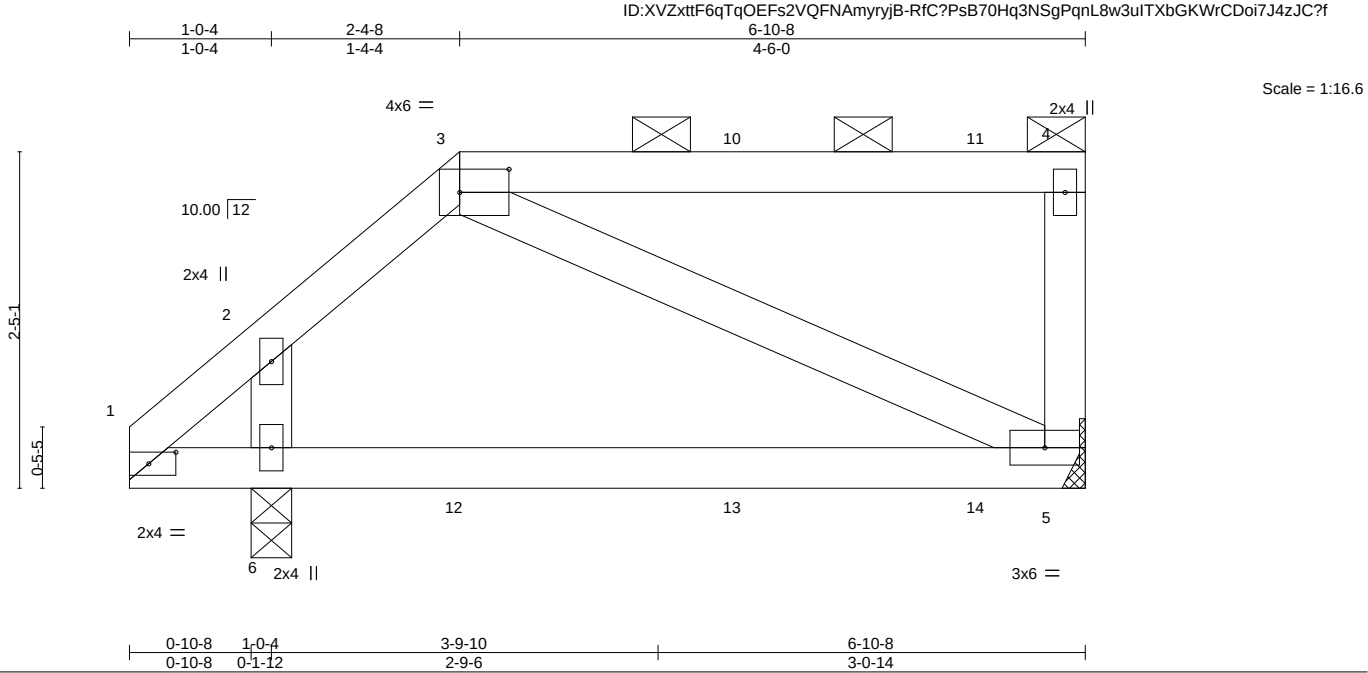

Plate Offsets (X,Y)-- [1:0-2-5,0-1-0], [3:0-4-4,0-2-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.04	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.07	5-6	>990	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	-0.01	5-6	>999	240	Weight: 33 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 5=Mechanical
Max Horz 6=69(LC 7)
Max Uplift 6=-50(LC 8), 5=-72(LC 5)
Max Grav 6=327(LC 1), 5=250(LC 20)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=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
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 19 lb down and 46 lb up at 2-4-8, and 3 lb down and 37 lb up at 4-5-4, and 14 lb down and 45 lb up at 6-2-4 on top chord, and 6 lb down at 2-5-4, and 6 lb down at 4-5-4, and 10 lb down at 6-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 3=-1(F) 10=-1(F) 11=-14(F) 12=-6(F) 13=-6(F) 14=-10(F)

April 9,2024

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

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	J08	MONO HIP	1	1	I64737236
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:41 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

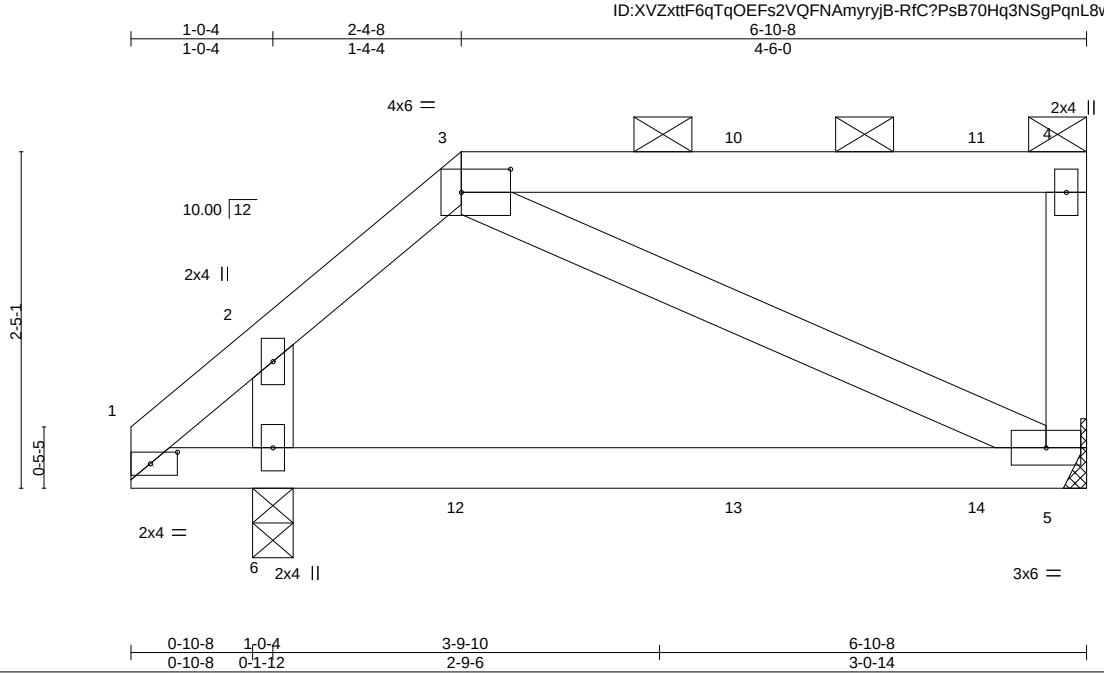

Plate Offsets (X,Y)-- [1:0-2-5,0-1-0], [3:0-4-4,0-2-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.04	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.09	5-6	>805	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	-0.01	5-6	>999	240	Weight: 33 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 5=Mechanical
Max Horz 6=69(LC 7)
Max Uplift 6=-47(LC 8), 5=-68(LC 5)
Max Grav 6=377(LC 1), 5=320(LC 20)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=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
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 74 lb down and 55 lb up at 2-4-8, and 74 lb down and 46 lb up at 4-5-4, and 70 lb down and 52 lb up at 6-2-4 on top chord, and 25 lb down at 2-5-4, and 25 lb down at 4-5-4, and 28 lb down at 6-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 3=-23(B) 10=-23(B) 11=-37(B) 12=-23(B) 13=-23(B) 14=-28(B)

April 9,2024

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

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	J09	MONO HIP	4	1	I64737237
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:41 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

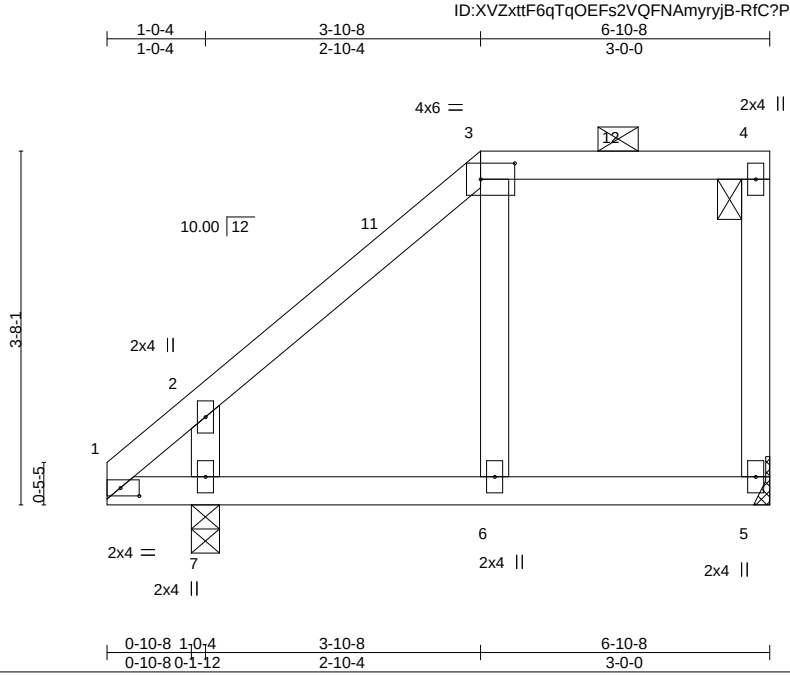

Plate Offsets (X,Y)-- [1:0-2-5,0-1-0], [3:0-4-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.09	6	>790	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.19	6	>369	240		
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-MP		Wind(LL)	0.13	6	>516	240	Weight: 33 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 7=0-3-8
Max Horz 7=110(LC 12)
Max Uplift 5=-42(LC 12), 7=-2(LC 12)
Max Grav 5=221(LC 1), 7=317(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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 3-10-8, Exterior(2) 3-10-8 to 6-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

April 9,2024

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	J10	MONO HIP	3	1	I64737238
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:42 2024 Page 1
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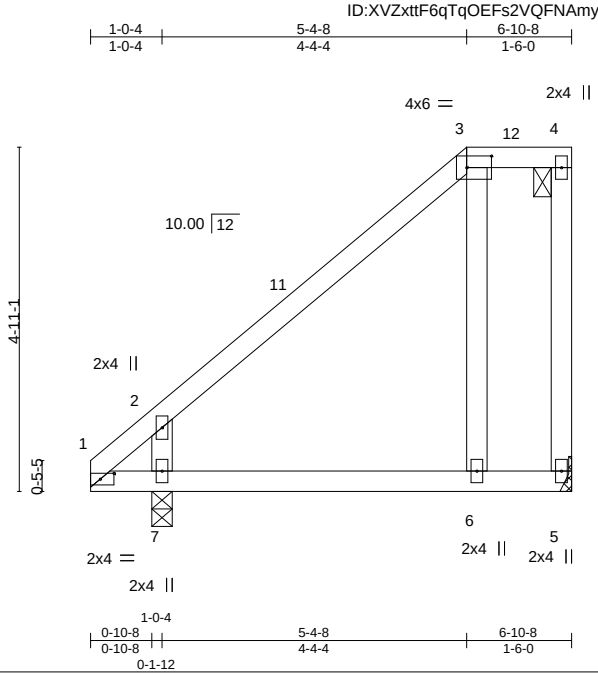

Plate Offsets (X,Y)-- [1:0-2-5,0-1-0], [3:0-4-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.12	6-7	>558	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.14	6-7	>480	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 37 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 7=0-3-8
Max Horz 7=152(LC 12)
Max Uplift 5=-80(LC 12)
Max Grav 5=221(LC 1), 7=317(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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-4-8, Exterior(2) 5-4-8 to 6-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

April 9,2024

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Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	J11	MONO TRUSS	23	1	I64737239
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:42 2024 Page 1
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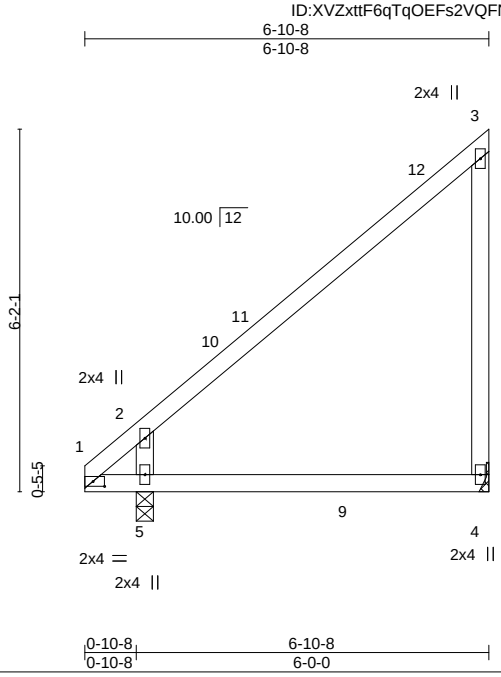

Plate Offsets (X,Y)-- [1:0-2-5,0-1-0]

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	0.55	Vert(LL)	-0.05	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.11	4-5	>606	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.09	4-5	>799	240	Weight: 33 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 5=0-3-8
Max Horz 5=186(LC 11)
Max Uplift 4=-80(LC 9)
Max Grav 4=317(LC 19), 5=333(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-395/365
BOT CHORD 1-5=-227/251
WEBS 2-5=-425/344

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 6-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
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) 4.

April 9,2024

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	P05G	GABLE	1	1	I64737240
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:43 2024 Page 1
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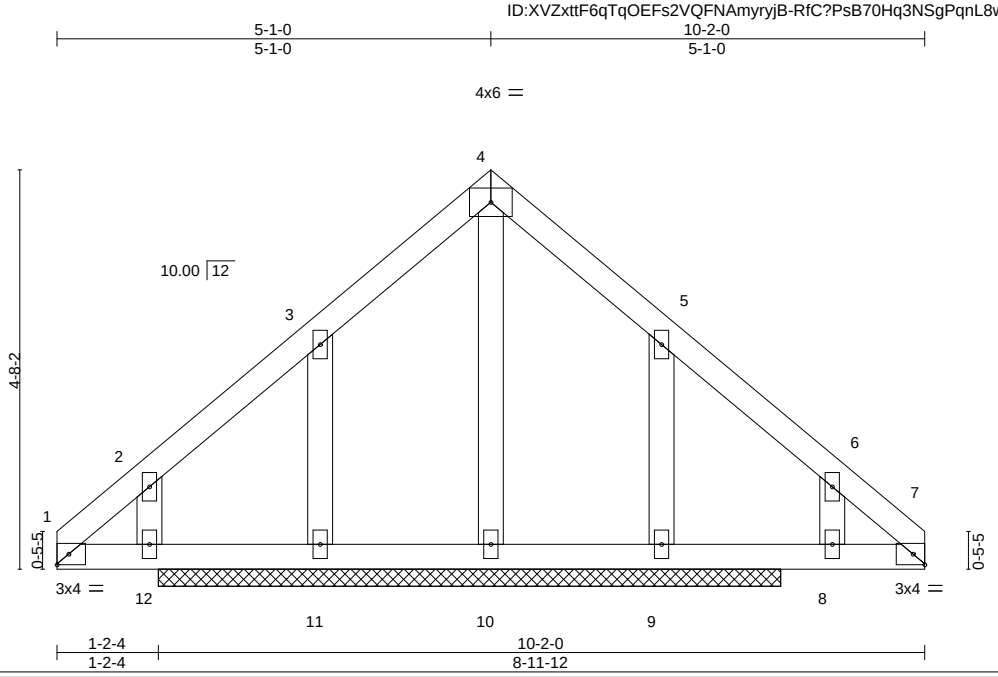

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.10	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 51 lb	FT = 20%

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

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

REACTIONS. All bearings 7-3-8.
(lb) - Max Horz 12=-93(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 12 except 11=-120(LC 12), 9=-104(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 10, 12 except 11=290(LC 19), 9=304(LC 24)

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 Corner(3) 0-0-0 to 3-1-0, Exterior(2) 3-1-0 to 5-1-0, Corner(3) 5-1-0 to 8-1-0, Exterior(2) 8-1-0 to 10-2-0 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) 12 except (jt=lb) 11=120, 9=104.
9) Non Standard bearing condition. Review required.

April 9,2024

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	P06GR	MONO TRUSS	1	2	I64737241
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:43 2024 Page 1
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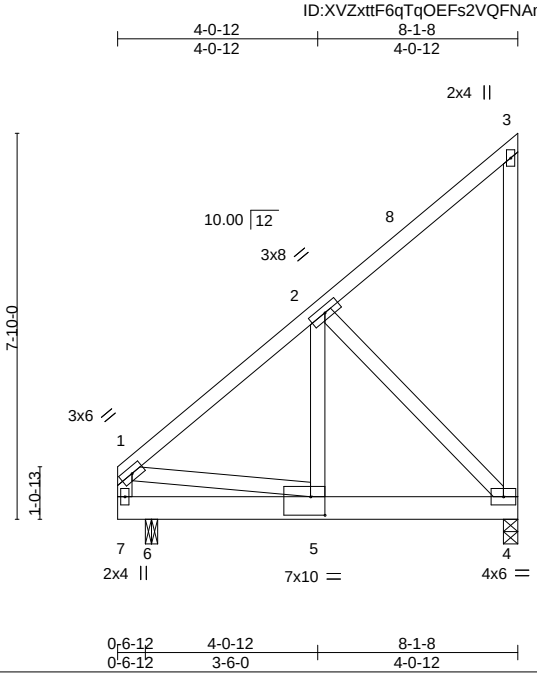

Plate Offsets (X,Y)-- [5:0-3-8,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.03	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.06	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.02	4-5	>999	240	Weight: 130 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 4=0-3-8, 6=0-3-0
Max Horz 6=238(LC 5)
Max Uplift 4=-395(LC 8), 6=-347(LC 8)
Max Grav 4=3256(LC 15), 6=3652(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-1794/177, 1-2=-2182/207
BOT CHORD 5-6=-280/140, 4-5=-207/1722
WEBS 1-5=-88/1757, 2-5=-287/2849, 2-4=-2413/362

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) 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
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) except (jt=lb) 4=395, 6=347.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 4-7=-755(F=-735)

April 9,2024

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	PB01	GABLE	7	1	I64737242
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:43 2024 Page 1
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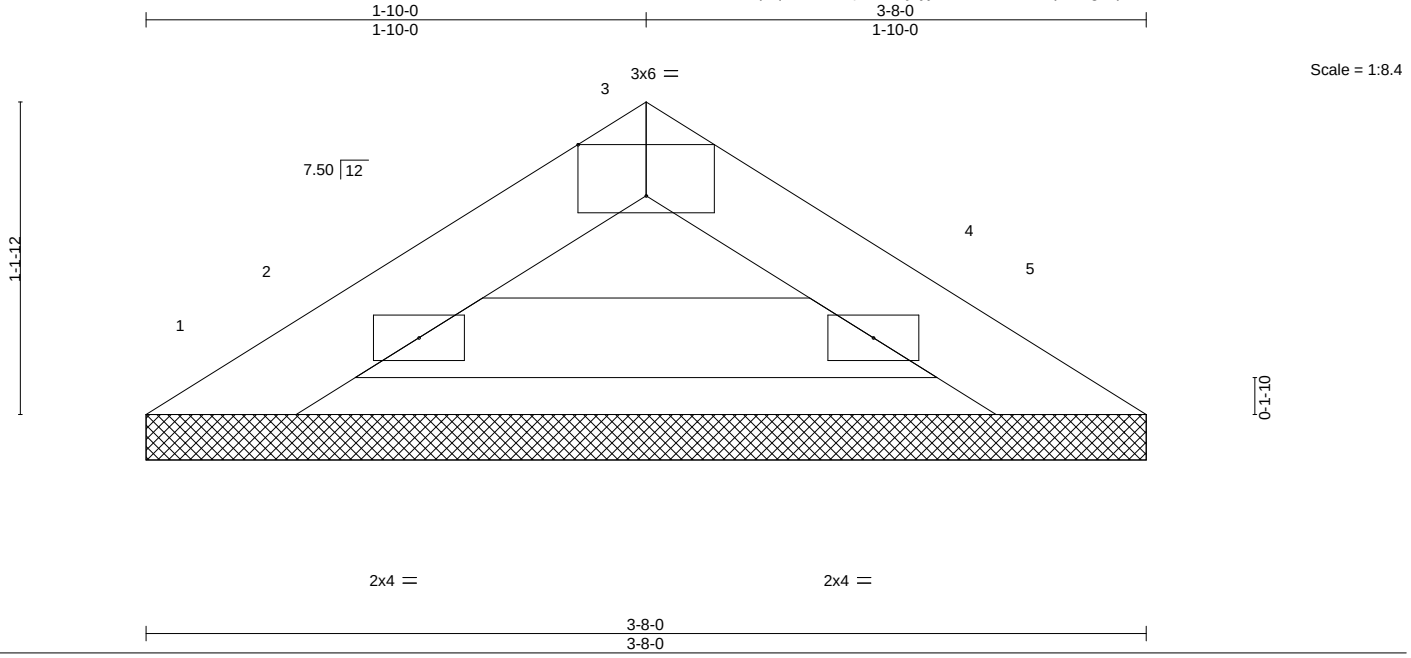

Plate Offsets (X,Y)-- [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%

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

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

REACTIONS. All bearings 3-8-0.
(lb) - Max Horz 1=-21(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 2, 4
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4

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 Corner(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 100 lb uplift at joint(s) 1, 2, 4.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

April 9,2024

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

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	V01	GABLE	1	1	I64737243
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:44 2024 Page 1
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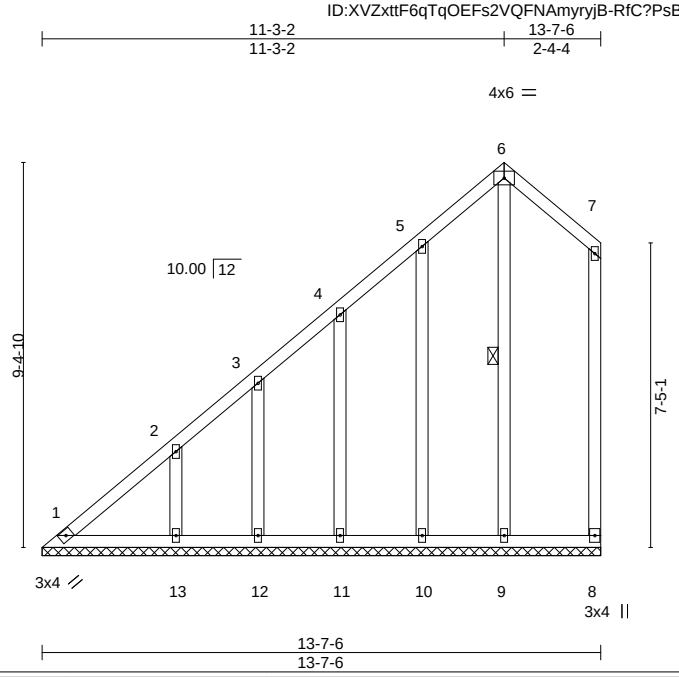

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 97 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 13-7-6.
(lb) - Max Horz 1=275(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 9, 10, 11, 12, 13
Max Grav All reactions 250 lb or less at joint(s) 1, 8, 9, 10, 11, 12 except 13=252(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-355/351, 2-3=-256/258

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 Corner(3) 0-4-13 to 3-3-2, Exterior(2) 3-3-2 to 11-3-2, Corner(3) 11-3-2 to 13-5-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 9, 10, 11, 12, 13.

April 9,2024

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	V02	GABLE	1	1	I64737244
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:45 2024 Page 1
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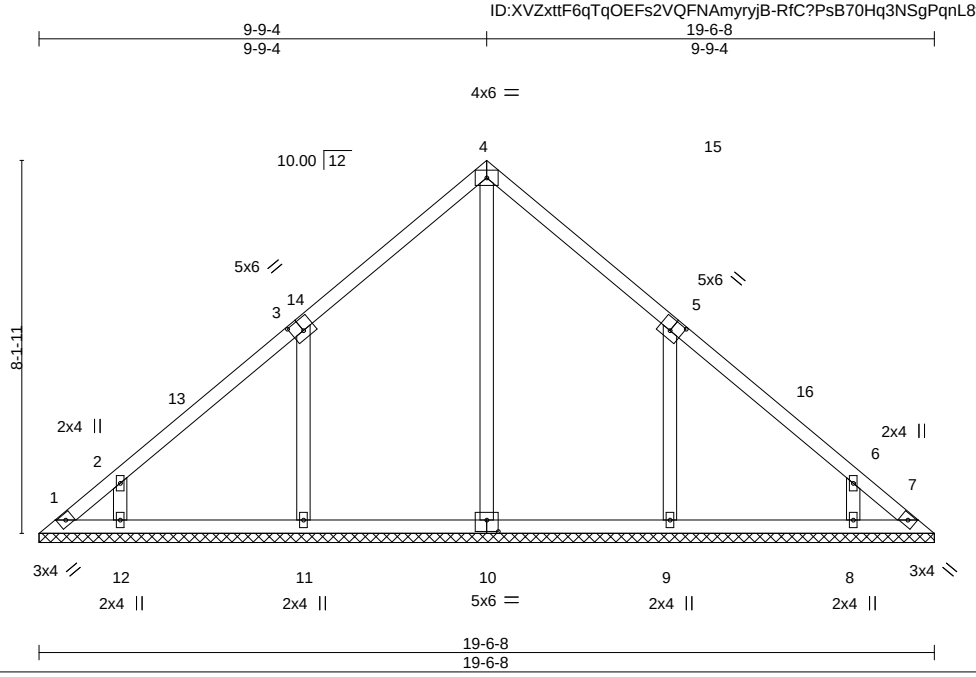

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [10:0-3-0,0-3-0]

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	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 92 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 19-6-8.
(lb) - Max Horz 1=-168(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-110(LC 12), 12=-108(LC 12), 9=-110(LC 13), 8=-109(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=391(LC 22), 11=427(LC 19), 12=256(LC 19), 9=427(LC 20), 8=256(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-286/162, 5-9=-285/162

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) 0-4-14 to 3-4-14, Interior(1) 3-4-14 to 9-9-4, Exterior(2) 9-9-4 to 13-10-6, Interior(1) 13-10-6 to 19-1-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=110, 12=108, 9=110, 8=109.

April 9,2024

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

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	V03	GABLE	1	1	I64737245
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:45 2024 Page 1
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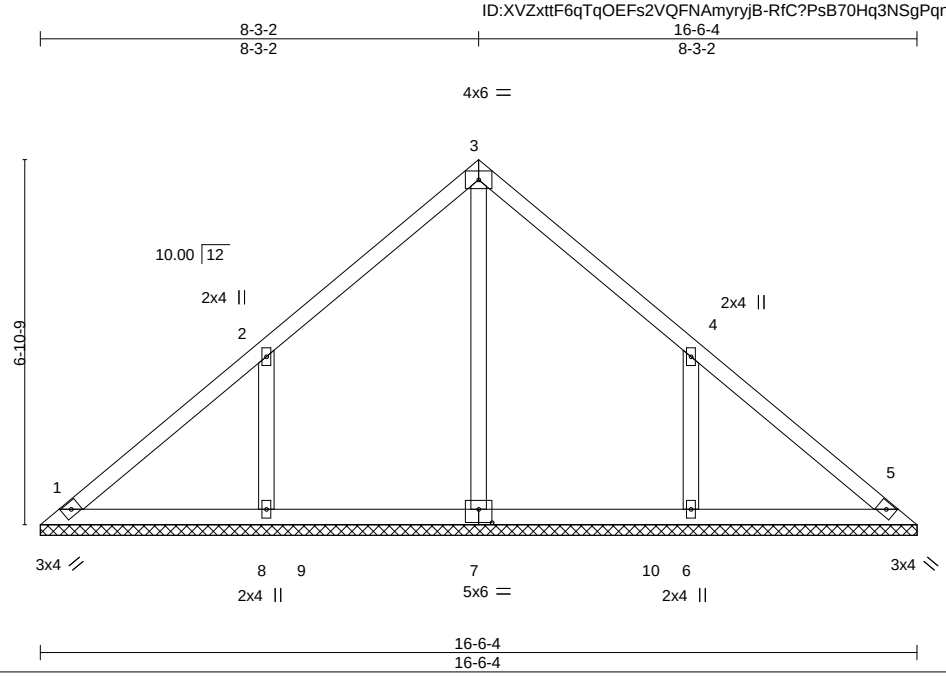

Plate Offsets (X,Y)-- [7:0-3-0,0-3-0]

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	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 73 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 16-6-4.
(lb) - Max Horz 1=-140(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-158(LC 12), 6=-158(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=359(LC 22), 8=432(LC 19), 6=432(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-300/204, 4-6=-300/203

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 Corner(3) 0-4-14 to 3-4-14, Exterior(2) 3-4-14 to 8-3-2, Corner(3) 8-3-2 to 11-3-2, Exterior(2) 11-3-2 to 16-1-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=158, 6=158.

April 9,2024

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	V04	GABLE	1	1	I64737246
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:46 2024 Page 1
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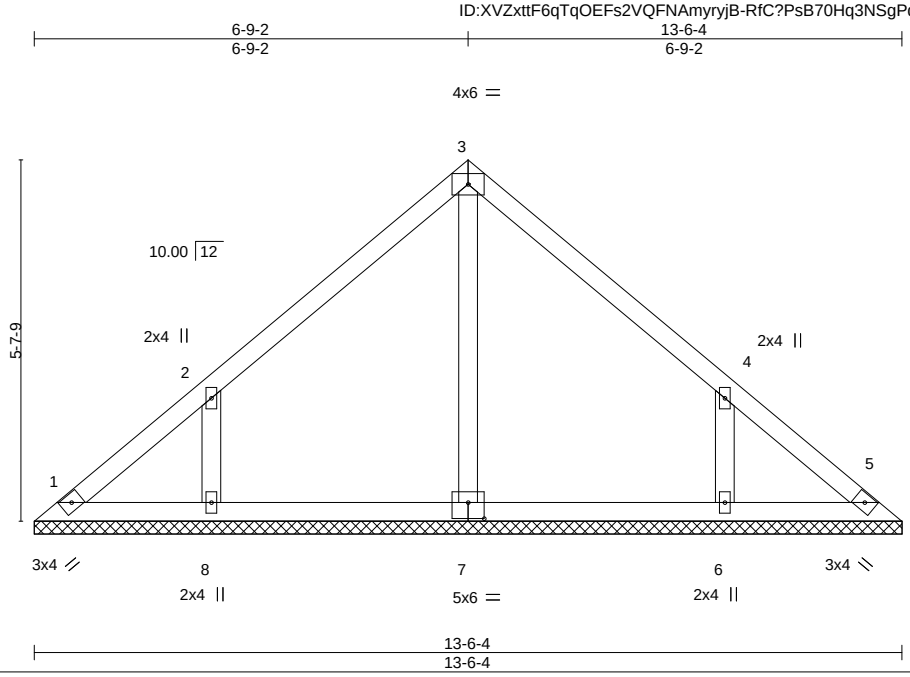


Plate Offsets (X,Y)-- [7:0-3-0,0-3-0]

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	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%

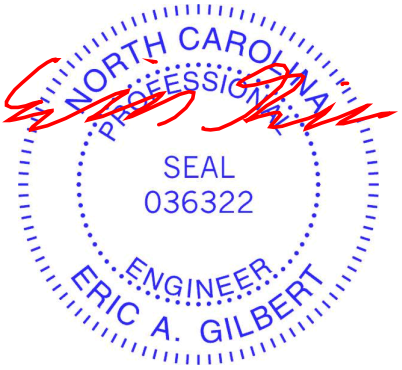
LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

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 13-6-4.
(lb) - Max Horz 1=-114(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 5, 1 except 8=-133(LC 12), 6=-133(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 5, 1, 7 except 8=326(LC 19), 6=326(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-255/175, 4-6=-255/175

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 Corner(3) 0-4-14 to 3-4-14, Exterior(2) 3-4-14 to 6-9-2, Corner(3) 6-9-2 to 9-9-2, Exterior(2) 9-9-2 to 13-1-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 1 except (jt=lb) 8=133, 6=133.



April 9,2024

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

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	V05	GABLE	1	1	I64737247
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:46 2024 Page 1
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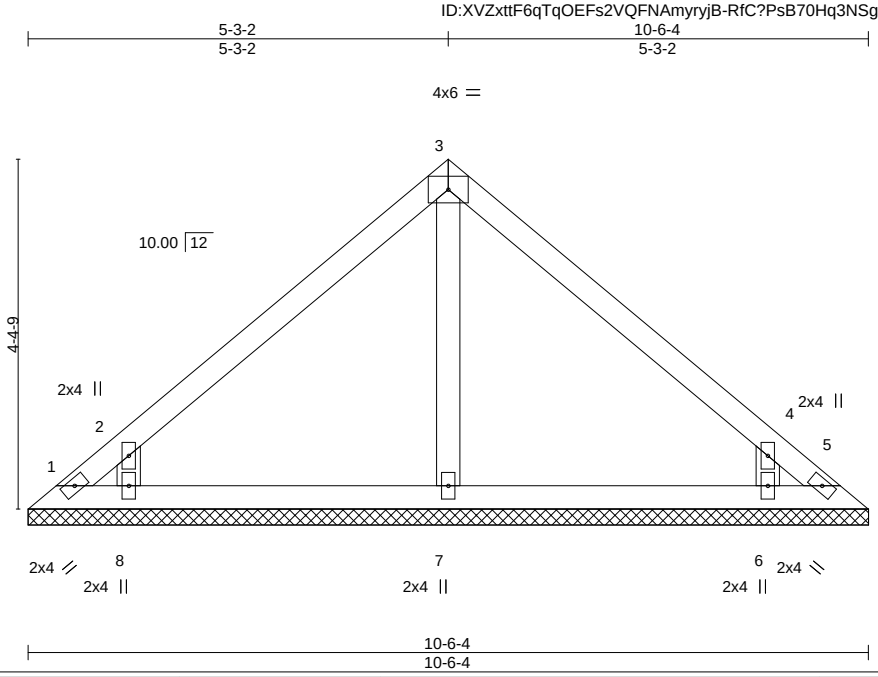

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 42 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 10-6-4.
(lb) - Max Horz 1=-87(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 5 except 1=-104(LC 10), 8=-149(LC 12), 6=-149(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=350(LC 19), 6=350(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-291/204, 4-6=-291/204

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 Corner(3) 0-4-14 to 3-4-14, Exterior(2) 3-4-14 to 5-3-2, Corner(3) 5-3-2 to 8-3-2, Exterior(2) 8-3-2 to 10-1-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 1=104, 8=149, 6=149.

April 9,2024

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

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	V06	GABLE	1	1	I64737248
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:47 2024 Page 1
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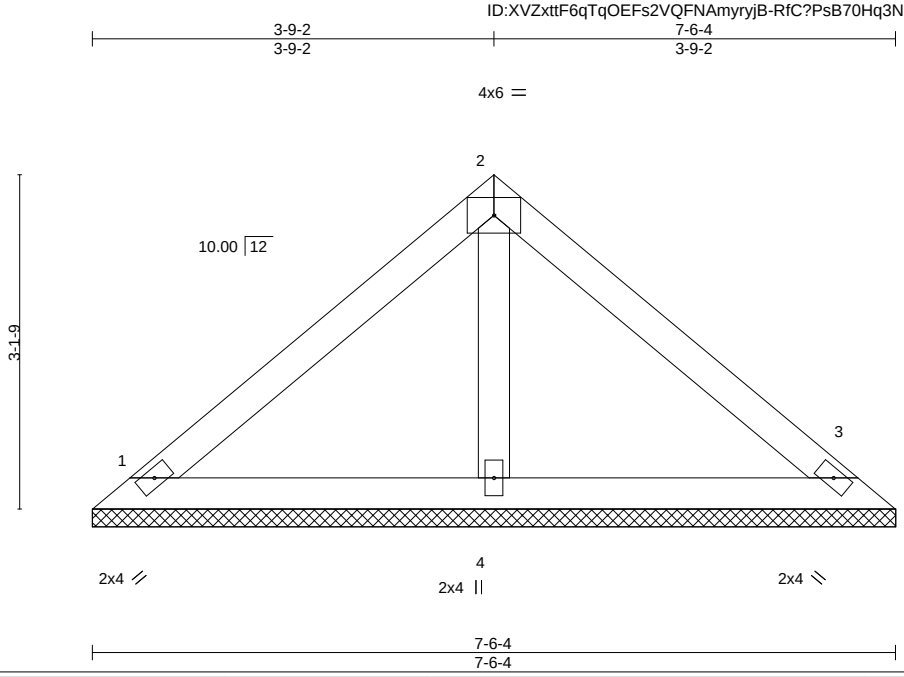

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 28 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. (size) 1=7-6-4, 3=7-6-4, 4=7-6-4
Max Horz 1=-60(LC 8)
Max Uplift 1=-15(LC 13), 3=-22(LC 13)
Max Grav 1=140(LC 1), 3=140(LC 1), 4=256(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 Corner(3) 0-4-14 to 3-4-14, Exterior(2) 3-4-14 to 3-9-2, Corner(3) 3-9-2 to 6-9-2, Exterior(2) 6-9-2 to 7-1-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 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.

April 9,2024

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

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	V07	GABLE	1	1	I64737249
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:47 2024 Page 1
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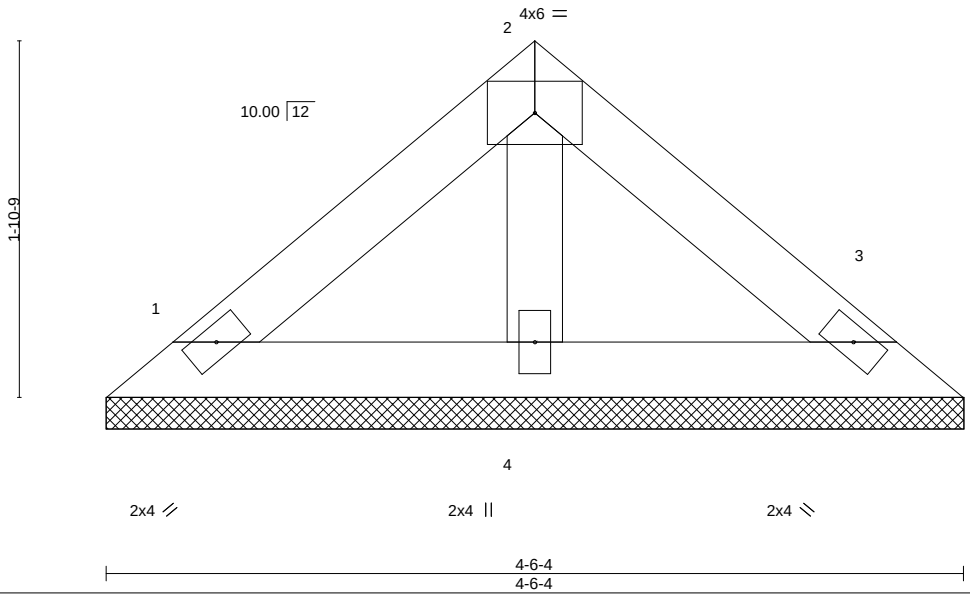

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 16 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 4-6-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-6-4, 3=4-6-4, 4=4-6-4
Max Horz 1=33(LC 11)
Max Uplift 1=-12(LC 13), 3=-16(LC 13)
Max Grav 1=84(LC 1), 3=84(LC 1), 4=128(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 Corner(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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

April 9,2024

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

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	V08	GABLE	1	1	I64737250
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:48 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

17-3-12 | 34-7-8
17-3-12 | 17-3-12

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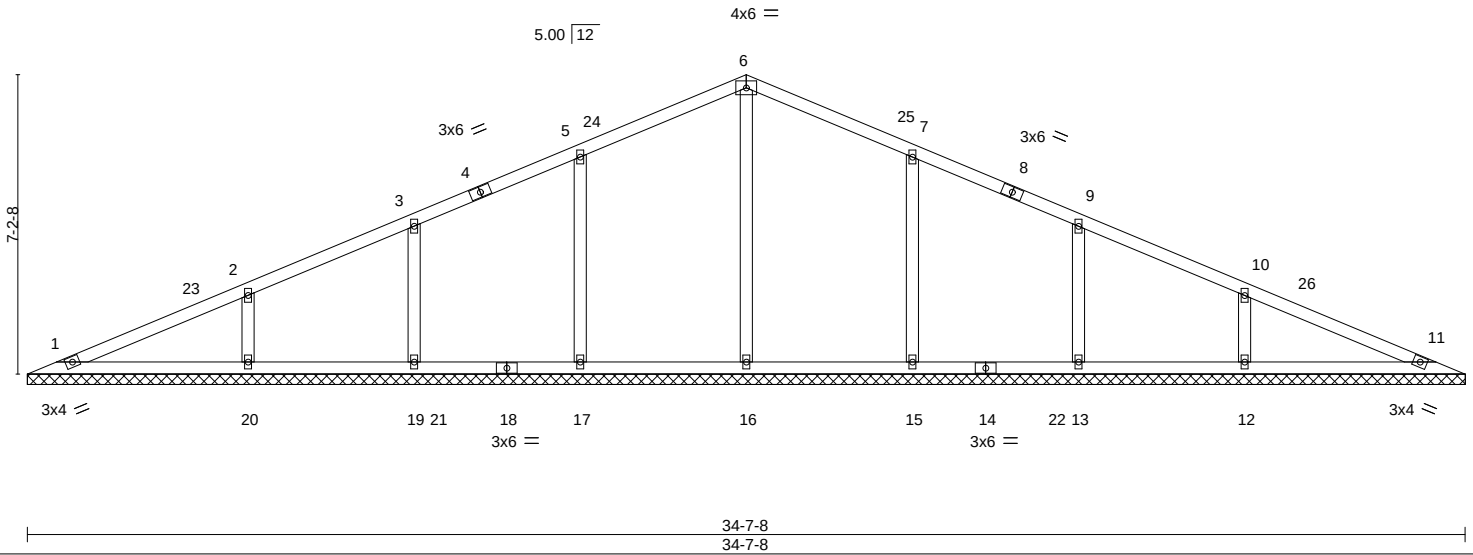

34-7-8
34-7-8

Plate Offsets (X,Y)-- [7:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 144 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 34-7-9.
(lb) - Max Horz 1=100(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 17, 19, 20, 15, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=375(LC 22), 17=429(LC 25), 19=300(LC 2), 20=399(LC 23), 15=430(LC 26), 13=300(LC 2), 12=399(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-17=-264/182, 2-20=-292/192, 7-15=-264/182, 10-12=-291/192

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 Corner(3) 0-8-13 to 4-2-5, Exterior(2) 4-2-5 to 17-3-12, Corner(3) 17-3-12 to 20-9-5, Exterior(2) 20-9-5 to 33-10-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 17, 19, 20, 15, 13, 12.

April 9,2024

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

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	V09	GABLE	1	1	I64737251
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:48 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

14-3-12 | 28-7-8
14-3-12 | 14-3-12

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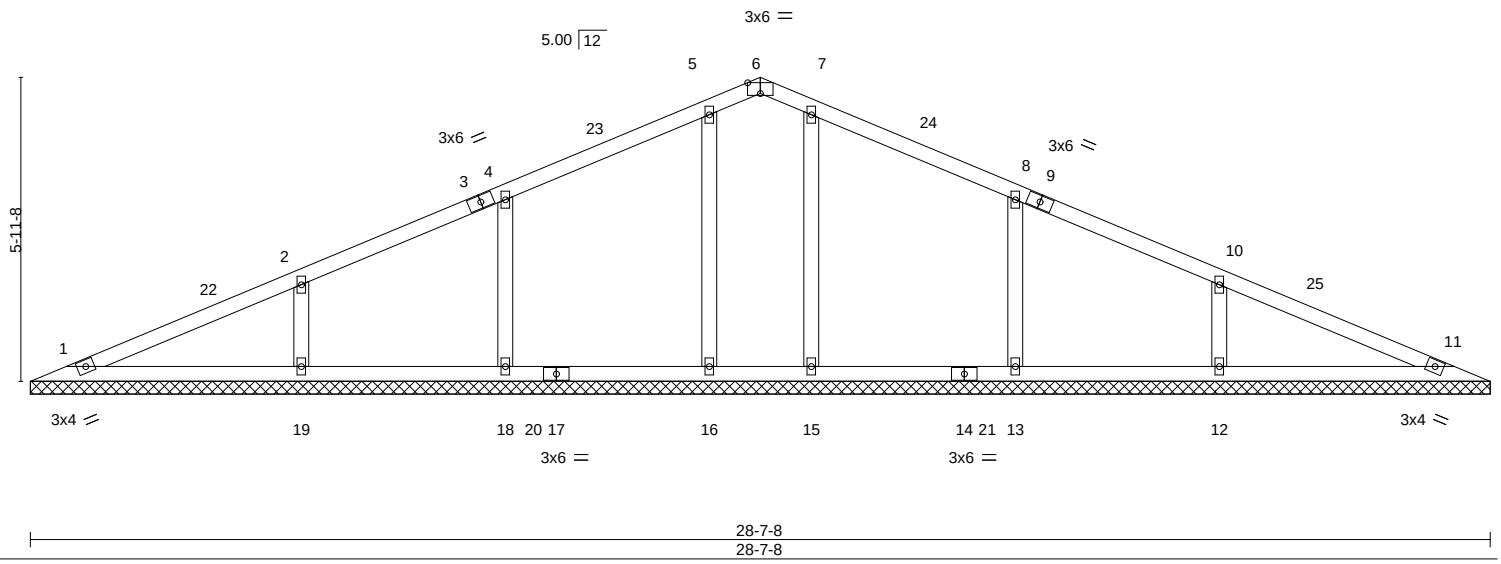

28-7-8
28-7-8

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 116 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 28-7-8.
(lb) - Max Horz 1=82(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 16, 18, 19, 15, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=278(LC 25), 18=323(LC 2), 19=395(LC 23), 15=278(LC 26), 13=323(LC 2), 12=395(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-19=-288/179, 10-12=-288/179

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 Corner(3) 0-8-13 to 3-8-13, Exterior(2) 3-8-13 to 14-3-12, Corner(3) 14-3-12 to 17-3-12, Exterior(2) 17-3-12 to 27-10-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 18, 19, 15, 13, 12.

April 9,2024

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

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	V10	GABLE	1	1	I64737252
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:49 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

11-3-12 | 22-7-8
11-3-12 | 11-3-12

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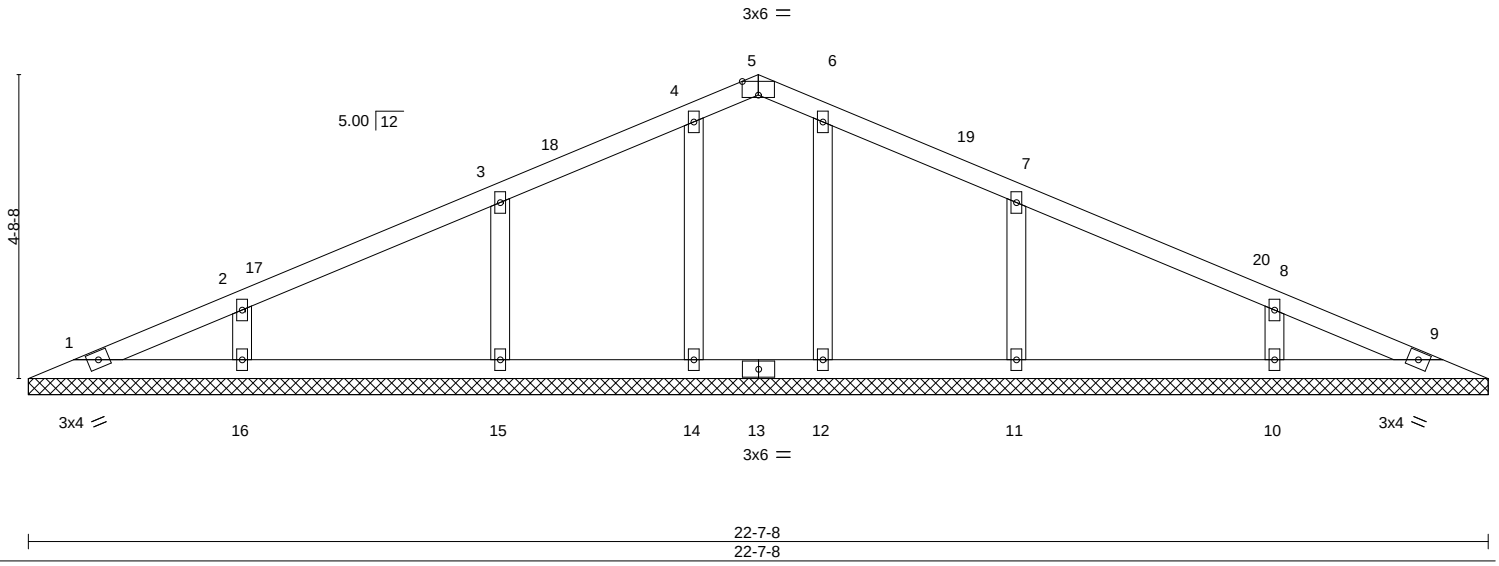


22-7-8
22-7-8

Plate Offsets (X,Y)-- [5:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 89 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 22-7-8.
(lb) - Max Horz 1=64(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 14, 15, 16, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 14, 12 except 15=301(LC 23), 16=299(LC 1), 11=301(LC 24), 10=299(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 Corner(3) 0-8-13 to 3-8-13, Exterior(2) 3-8-13 to 11-3-12, Corner(3) 11-3-12 to 14-3-12, Exterior(2) 14-3-12 to 21-10-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 15, 16, 11, 10.

April 9,2024

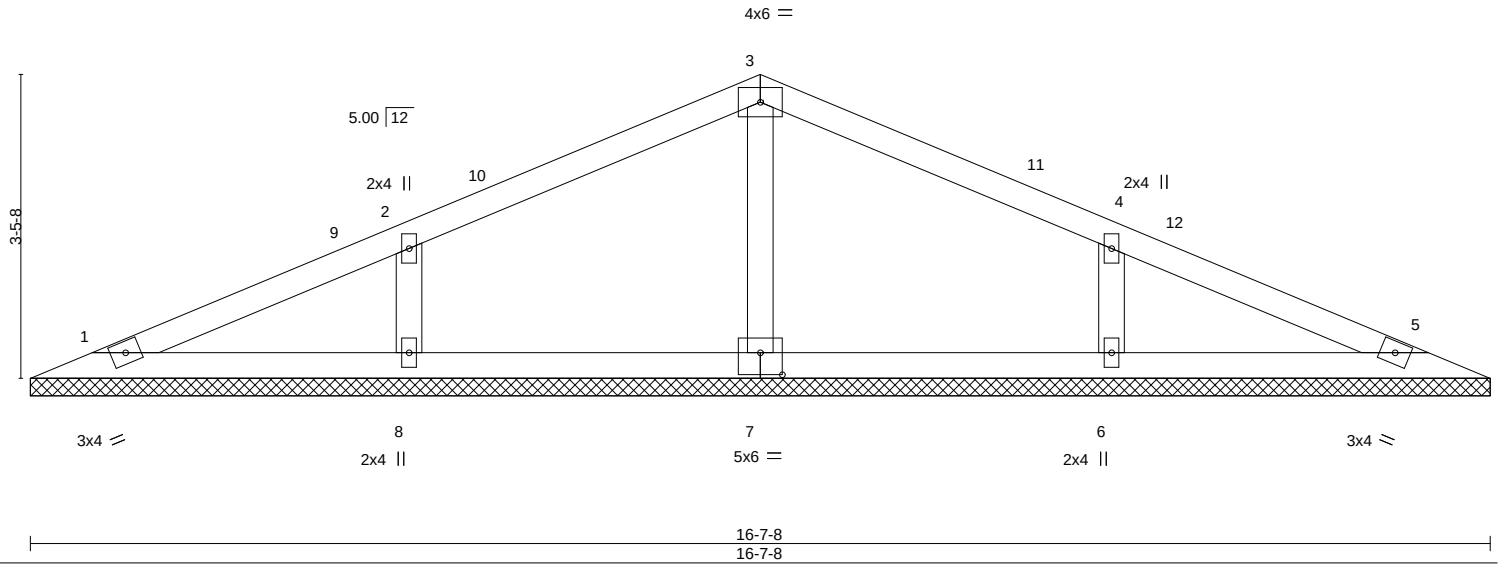
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	V11	GABLE	1	1	I64737253
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:49 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-3-12 16-7-8
8-3-12 8-3-12

Scale = 1:26.2



16-7-8
16-7-8

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

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	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 57 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 16-7-8.
(lb) - Max Horz 1=46(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=275(LC 1), 8=360(LC 23), 6=360(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-270/176, 4-6=-270/177

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 Corner(3) 0-8-13 to 3-8-13, Exterior(2) 3-8-13 to 8-3-12, Corner(3) 8-3-12 to 11-3-12, Exterior(2) 11-3-12 to 15-10-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 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, 5, 8, 6.

April 9,2024

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

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	V12	GABLE	1	1	I64737254
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:50 2024 Page 1
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5-3-12 10-7-9
5-3-12 5-3-12

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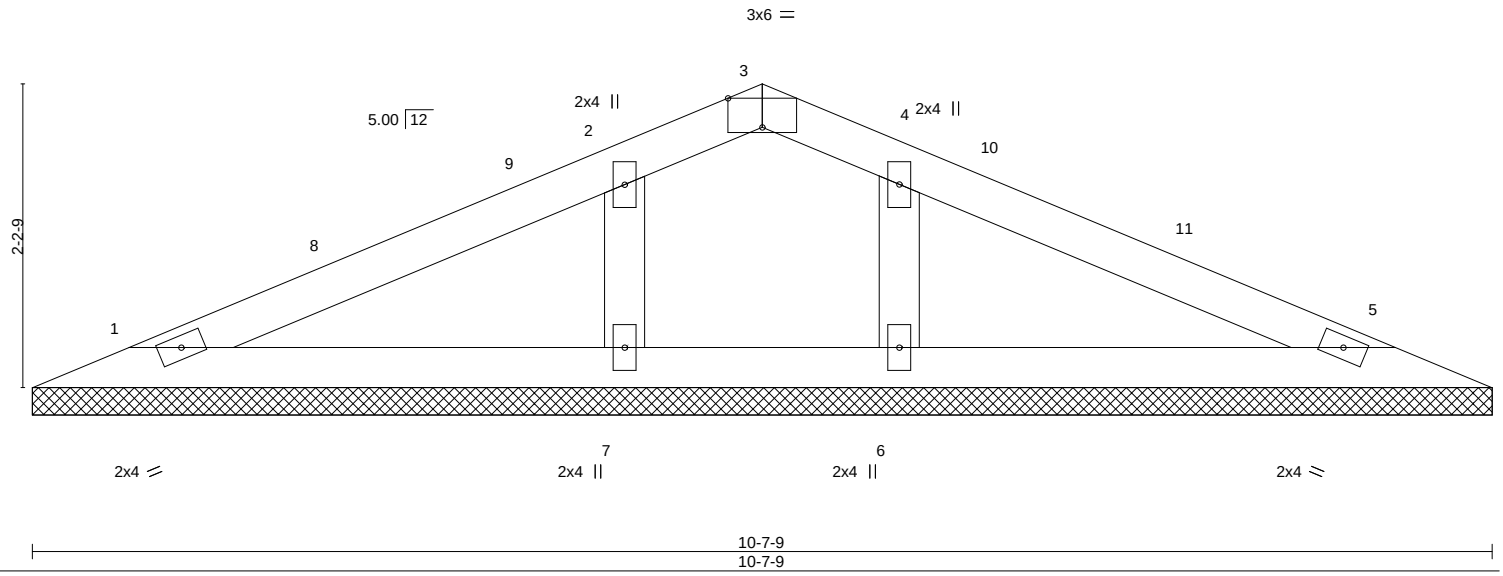


10-7-9
10-7-9

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
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							Weight: 34 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 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 10-7-9.
(lb) - Max Horz 1=28(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 7, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=280(LC 23), 6=281(LC 24)

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 Corner(3) 0-8-13 to 3-8-13, Exterior(2) 3-8-13 to 5-3-12, Corner(3) 5-3-12 to 8-3-12, Exterior(2) 8-3-12 to 9-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 6.

April 9,2024

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

Job	Truss	Truss Type	Qty	Ply	Chesapeake 307C:Lot133 NeillsCreek
FNC133-R	V13	GABLE	1	1	I64737255
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Apr 6 10:32:50 2024 Page 1
ID:XVZxttF6qTqOEFs2VQFNAmyryjB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

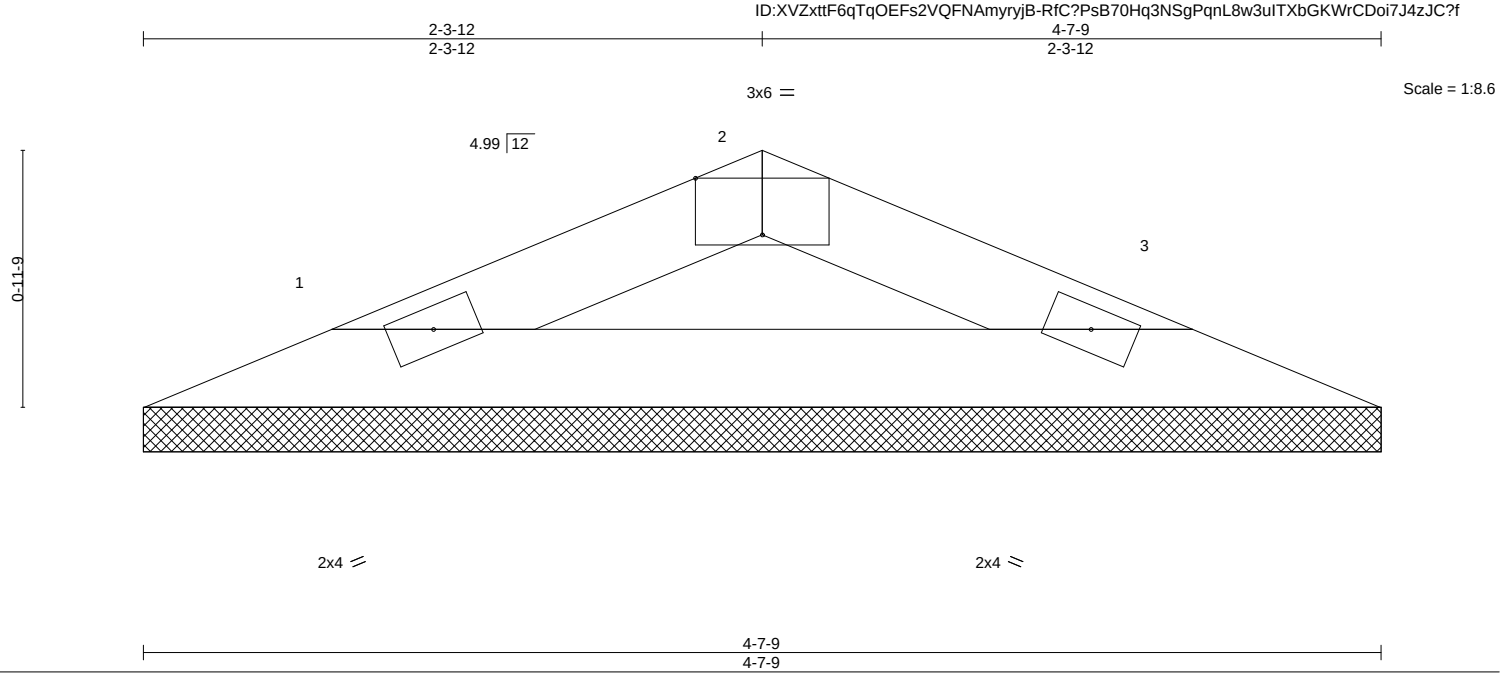


Plate Offsets (X,Y)-- [2:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-7-9, 3=4-7-9
Max Horz 1=-10(LC 13)
Max Uplift 1=-8(LC 12), 3=-8(LC 13)
Max Grav 1=126(LC 1), 3=126(LC 1)

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

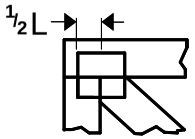
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C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

April 9,2024

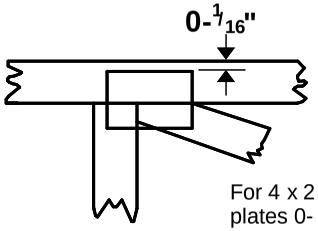
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

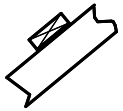
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

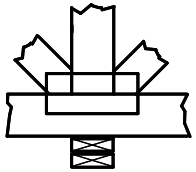
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

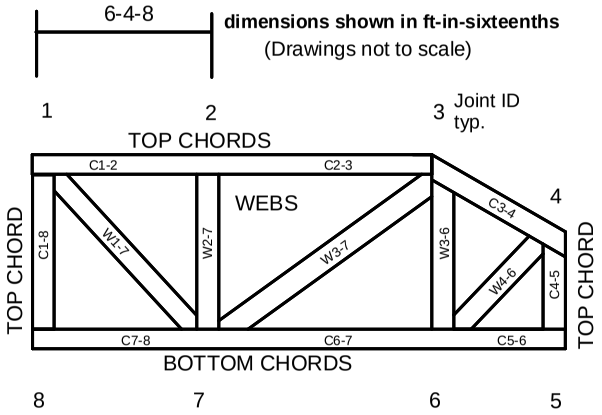


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: 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



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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek®

ENGINEERING BY TRENCO
A MiTek Affiliate

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