

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: French
Clearwater French

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: I51101113 thru I51101144

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

North Carolina COA: C-0844



April 1, 2022

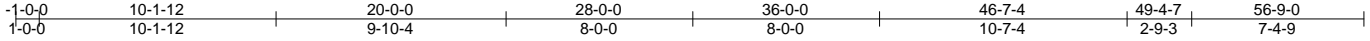
Gilbert, Eric

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

Job FRENCH	Truss A01	Truss Type HIP	Qty 8	Ply 1	Clearwater French Job Reference (optional)	151101113
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:28:44 2022 Page 1

ID:jww8HilN90uFSTm7sxLqmezW8l3-AuxGXJO8ygg6_QZk8LYMdfTloy9bKV3VA6Psg5zVRIH



Scale = 1:98.7

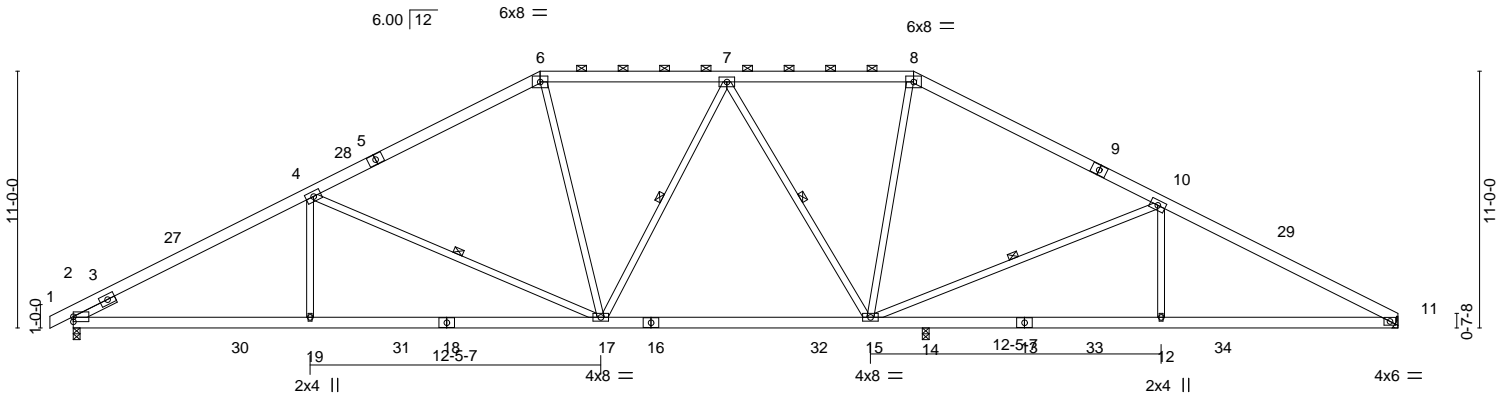


Plate Offsets (X,Y)--	[2:0-0-0,2-10]
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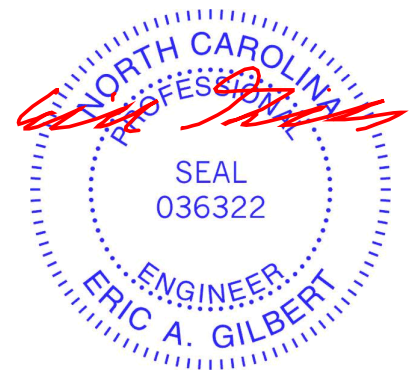
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.81	Vert(LL) -0.37 15-17 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.65 15-17 >679 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.11 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.15 15-17 >999 240	Weight: 402 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-3-7 oc purlins, except 2-0-0 oc purlins (4-7-2 max.): 6-8.
BOT CHORD 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 4-17, 7-17, 7-15, 10-15
SLIDER Left 2x4 SP No.3 1-11-12	

REACTIONS. (size) 2=0-3-8, 11=Mechanical, 14=0-3-8
 Max Horz 2=143(LC 16)
 Max Uplift 2=-117(LC 12), 11=-116(LC 13)
 Max Grav 2=2024(LC 2), 11=1690(LC 2), 14=935(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-3430/247, 4-6=-2553/290, 6-7=-2346/304, 7-8=-1900/304, 8-10=-2162/288, 10-11=-3053/255
 BOT CHORD 2-19=-204/2973, 17-19=-204/2973, 15-17=-55/2250, 14-15=-148/2654, 12-14=-148/2654, 11-12=-148/2654
 WEBS 4-19=0/386, 4-17=-894/184, 6-17=0/685, 7-17=-57/310, 7-15=-868/119, 8-15=-3/522, 10-15=-936/214, 10-12=0/308

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 4-8-2, Interior(1) 4-8-2 to 20-0-0, Exterior(2) 20-0-0 to 28-0-0, Interior(1) 28-0-0 to 36-0-0, Exterior(2) 36-0-0 to 44-0-5, Interior(1) 44-0-5 to 56-9-0 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a live load of 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=117, 11=116.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



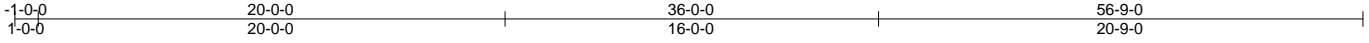
April 1, 2022

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

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

Job	Truss	Truss Type	Qty	Ply	Clearwater French	151101114
FRENCH	A01G	GABLE	2	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:28:48 2022 Page 1
 ID:jww8HilN90uFSTm7sxLqmezW8l3-2gBnNgRe?BAYT2lVNBdlnVd92ZgdGS155kN4zszVRID



Scale = 1:98.7

Plate Offsets (X,Y)-- [13:0-4-0,0-3-8], [21:0-4-0,0-3-8], [54:0-5-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.13	Horz(CT) 0.01	32	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 552 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals, and 2'-0" oc purlins (6'-0" max.): 13-21.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 21-43, 20-44, 19-45, 18-46, 17-47, 16-48, 15-50, 14-51, 13-52, 12-53, 11-54, 22-42, 23-41
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 56-9-0.
 (lb) - Max Horz 62=134(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 62, 44, 45, 46, 47, 48, 50, 51, 53, 54, 55, 56, 57, 58, 59, 60, 61, 42, 41, 39, 38, 37, 36, 35, 34, 33
 Max Grav All reactions 250 lb or less at joint(s) 62, 43, 44, 45, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 11-12=-90/261, 12-13=-102/293, 13-14=-90/282, 14-15=-90/282, 15-16=-90/282, 16-17=-90/282, 17-18=-90/282, 18-19=-90/282, 19-20=-90/282, 20-21=-90/282, 21-22=-102/297, 22-23=-90/265

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 4-8-2, Exterior(2) 4-8-2 to 20-0-0, Corner(3) 20-0-0 to 25-8-2, Exterior(2) 25-8-2 to 36-0-0, Corner(3) 36-0-0 to 41-8-2, Exterior(2) 41-8-2 to 56-9-0 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2'-0" oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 62, 44, 45, 46, 47, 48, 50, 51, 53, 54, 55, 56, 57, 58, 59, 60, 61, 42, 41, 39, 38, 37, 36, 35, 34, 33.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

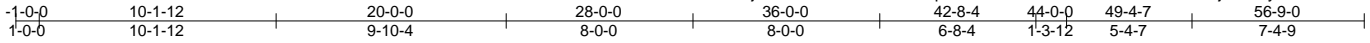


April 1, 2022

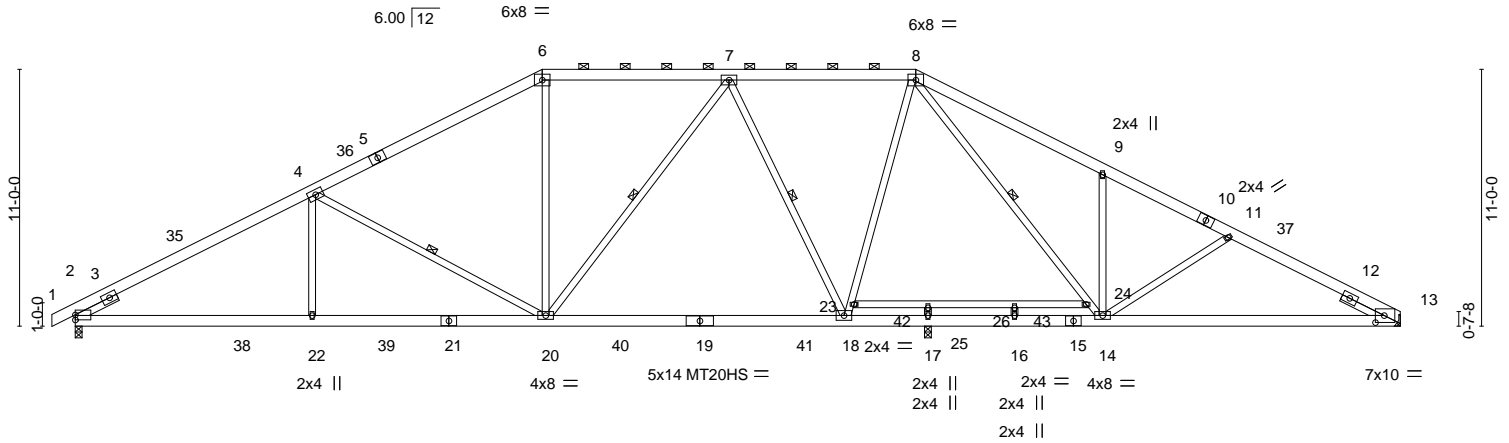
Job FRENCH	Truss A01H	Truss Type HIP	Qty 6	Ply 1	Clearwater French Job Reference (optional)	151101115
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:28:50 2022 Page 1
ID:jww8HilN90uFSTm7sxlQmezW8I3-?2lXoMTuXoQFI0tVbfmwtjHNN7ykAZOY2sA1kzVRIB



Scale = 1:98.7



10-1-12	20-0-0	33-0-14	36-8-0	40-4-8	44-0-0	56-9-0
10-1-12	9-10-4	13-0-14	3-7-2	3-8-8	3-7-8	12-9-0

Plate Offsets (X,Y)-- [2:0-0-0,0-2-10], [13:0-4-8,0-3-10]					
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 1.00	Vert(LL) -0.41 18-20 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) -0.75 18-20 >582 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.89	Horz(CT) 0.12 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.15 18-20 >999 240		Weight: 430 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins, except 2-0-0 oc purlins (4-6-1 max.): 6-8.
BOT CHORD 2x6 SP DSS *Except* 13-15: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-20, 7-20, 7-18, 8-14
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	

REACTIONS. (size) 2=0-3-8, 13=Mechanical, 17=0-3-8
 Max Horz 2=144(LC 16)
 Max Uplift 2=-102(LC 12), 13=-86(LC 13), 17=-3(LC 13)
 Max Grav 2=2087(LC 2), 13=1802(LC 1), 17=790(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-3533/229, 4-6=-2837/258, 6-7=-2444/285, 7-8=-2203/260, 8-9=-2945/350,
 9-11=-2898/214, 11-13=-3169/227
 BOT CHORD 2-22=-186/3065, 20-22=-186/3065, 18-20=-23/2419, 17-18=0/2084, 16-17=0/2084,
 14-16=0/2084, 13-14=-121/2834
 WEBS 4-22=0/293, 4-20=-750/199, 6-20=0/794, 7-18=-688/162, 18-23=-21/566, 8-23=-23/512,
 11-14=-367/131, 8-24=-177/823, 14-24=-177/851, 9-14=-441/208

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 4-8-2, Interior(1) 4-8-2 to 20-0-0, Exterior(2) 20-0-0 to 28-0-0, Interior(1) 28-0-0 to 36-0-0, Exterior(2) 36-0-0 to 44-0-0, Interior(1) 44-0-0 to 56-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 17 except (jt=lb) 2=102.
 - N/A

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 12) 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
 Continued on page 2



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

Job	Truss	Truss Type	Qty	Ply	Clearwater French	I51101115
FRENCH	A01H	HIP	6	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:28:50 2022 Page 2
ID:jww8HiiN90uFSTm7sxlqmezW8I3-?2IXoMTuXoQFiLotVbfmtwjHNN7yKAZOY2sA1kzVRIB

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 6-8=-60, 8-13=-60, 27-31=-20
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-50, 6-8=-50, 8-13=-50, 27-38=-20, 38-39=-50, 39-40=-20, 40-41=-50, 31-41=-20, 42-43=-30(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-8=-20, 8-13=-20, 27-31=-40, 42-43=-40(F)
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-8=-20, 8-13=-20, 27-38=-20, 38-39=-60, 39-40=-20, 40-41=-60, 31-41=-20, 42-43=-40(F)
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-46, 2-6=-50, 6-8=-34, 8-13=-43, 27-38=-20, 38-39=-50, 39-40=-20, 40-41=-50, 31-41=-20, 42-43=-30(F)
Horz: 1-2=-4, 2-6=0, 8-13=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
Uniform Loads (plf)
Vert: 1-2=-39, 2-6=-43, 6-8=-34, 8-13=-50, 27-38=-20, 38-39=-50, 39-40=-20, 40-41=-50, 31-41=-20, 42-43=-30(F)
Horz: 1-2=-11, 2-6=-7, 8-13=0
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-6=-34, 6-7=-34, 7-8=-44, 8-13=-44, 27-38=-20, 38-39=-50, 39-40=-20, 40-41=-50, 31-41=-20, 42-43=-30(F)
Horz: 1-2=-20, 2-6=-16, 8-13=6
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-6=-44, 6-7=-44, 7-8=-34, 8-13=-34, 27-38=-20, 38-39=-50, 39-40=-20, 40-41=-50, 31-41=-20, 42-43=-30(F)
Horz: 1-2=-10, 2-6=-6, 8-13=16
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-50, 6-8=-50, 8-13=-20, 27-38=-20, 38-39=-50, 39-40=-20, 40-41=-50, 31-41=-20, 42-43=-30(F)
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-20, 6-8=-50, 8-13=-50, 27-38=-20, 38-39=-50, 39-40=-20, 40-41=-50, 31-41=-20, 42-43=-30(F)

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

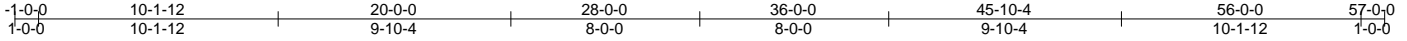


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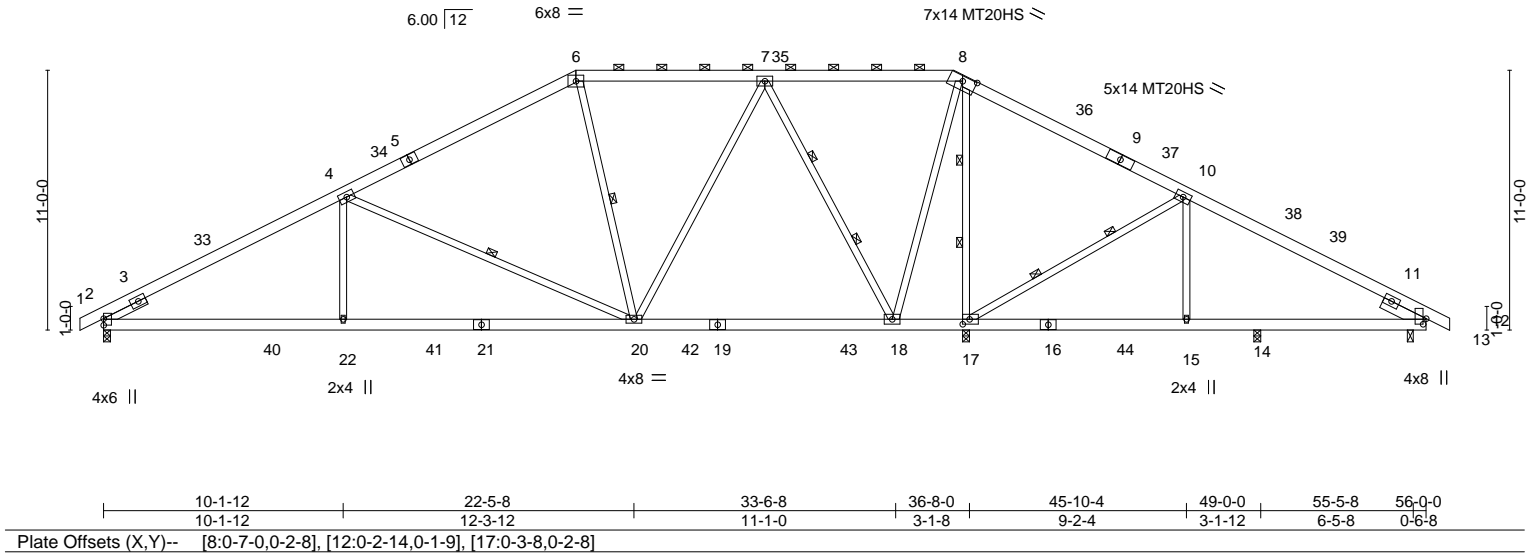
Job	Truss	Truss Type	Qty	Ply	Clearwater French	151101116
FRENCH	A02	HIP	4	1		

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:28:51 2022 Page 1

ID:jww8HiIN90uFSTm7sxLqmezW8I3-TFsw?iUXI6Y6KVb42JA?P7FWWnWLTcTXnibkZBzVRIA



Scale = 1:97.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.72	Vert(LL) -0.18 18-20 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.75	Vert(CT) -0.30 18-20 >999 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.91	Horz(CT) 0.06 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.04 22-25 >999 240		
				Weight: 417 lb	FT = 20%

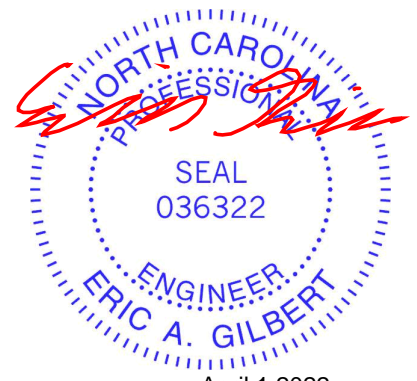
LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 5-6,6-8: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except* 4-20,10-17,8-17: 2x4 SP No.2	6-0-0 oc bracing: 17-18.
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x6 SP No.2 1-11-12	WEBS 1 Row at midpt 4-20, 6-20 2 Rows at 1/3 pts 7-18, 10-17, 8-17

REACTIONS. All bearings 0-3-8 except (jt=length) 17=0-4-10 (input: 0-3-8), 12=0-3-0.
 (lb) - Max Horz 2=140(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 17 except 12=154(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 14 except 2=1266(LC 25), 17=3926(LC 1), 12=1027(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1932/140, 4-6=-922/171, 6-7=-704/185, 7-8=0/569, 8-10=0/1261, 10-12=-1295/228
 BOT CHORD 2-22=-116/1649, 20-22=-116/1649, 18-20=-153/258, 17-18=-887/193, 15-17=-109/1038,
 14-15=-109/1038, 12-14=-109/1038
 WEBS 4-22=0/444, 4-20=-1039/200, 7-20=-11/1011, 7-18=-1497/147, 8-18=-43/1546,
 10-17=-2191/333, 8-17=-2559/186

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 4-7-3, Interior(1) 4-7-3 to 20-0-0, Exterior(2) 20-0-0 to 28-0-0, Interior(1) 28-0-0 to 36-4-8, Exterior(2) 36-4-8 to 44-3-9, Interior(1) 44-3-9 to 57-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - WARNING: Required bearing size at joint(s) 17 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 17 except (jt=lb) 12=154.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 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 April 1, 2022



Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	Clearwater French	I51101116
FRENCH	A02	HIP	4	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:28:51 2022 Page 2
 ID:jww8HiIN90uFSTm7sxLqmezW8I3-TFsw?iUXI6Y6KVb42JA?P7FWWnWLTcTXnibkZBzVRIA

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-60, 6-8=-60, 8-36=-60, 36-38=-260(F=-200), 13-38=-60, 23-27=-20

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

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Clearwater French	151101117
FRENCH	A03	HIP	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:28:53 2022 Page 1
 ID:jww8HiIN90uFSTm7sxLqmezW8l3-Pd_gQOVnjqZpISAKDTUYLs2aCqxWzqE04re3zVRl8
 10-1-12 20-0-0 28-0-0 36-0-0 45-10-4 56-0-0 57-0-0
 10-1-12 9-10-4 8-0-0 8-0-0 9-10-4 10-1-12 1-0-0

Scale = 1:97.3

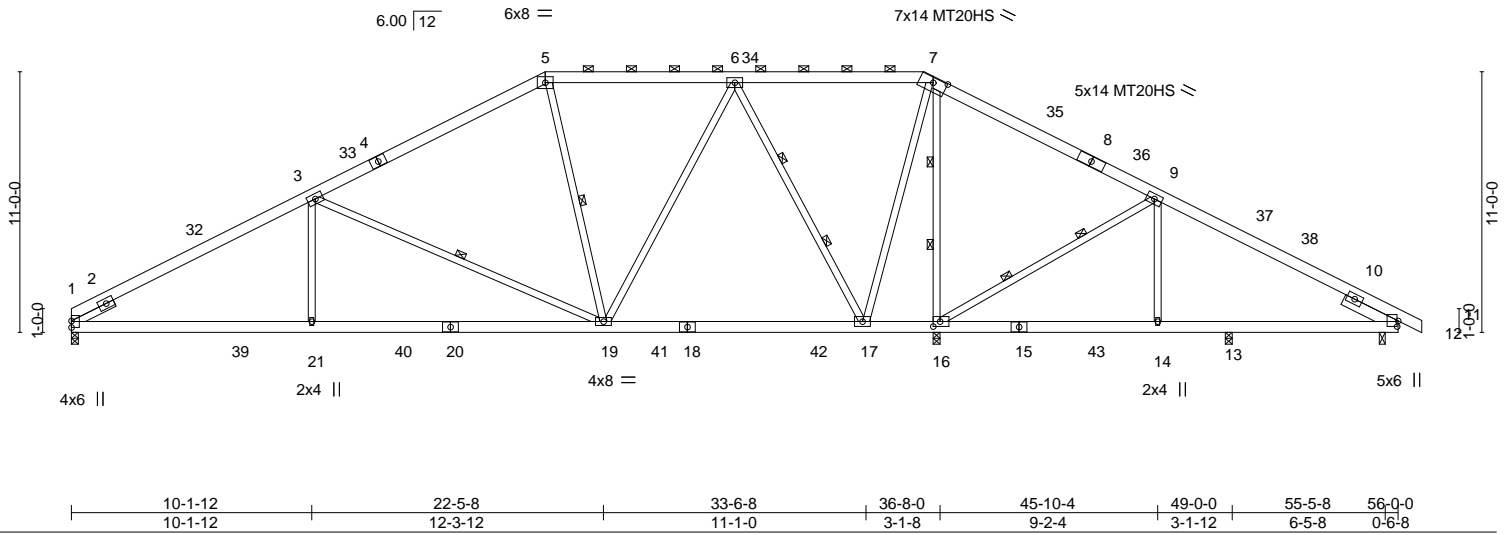


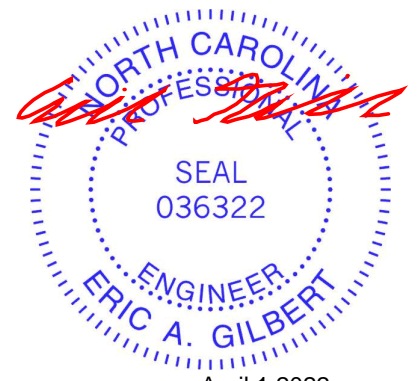
Plate Offsets (X,Y)-- [7:0-7-0,0-2-8], [11:0-2-14,0-0-9], [16:0-3-8,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.71	Vert(LL) -0.18 17-19 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.75	Vert(CT) -0.30 17-19 >999 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.91	Horz(CT) 0.06 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.05 21-24 >999 240		
				Weight: 415 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 7-8,8-12: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 4-11-5 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except* 3-19,9-16,7-16: 2x4 SP No.2	WEBS 1 Row at midpt 3-19, 5-19 2 Rows at 1/3 pts 6-17, 9-16, 7-16
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x6 SP No.2 2-5-12	
REACTIONS. All bearings 0-3-8 except (jt=length) 16=0-4-10 (input: 0-3-8), 11=0-3-0. (lb) - Max Horz 1=-145(LC 13) Max Uplift All uplift 100 lb or less at joint(s) 1, 16 except 11=-159(LC 13) Max Grav All reactions 250 lb or less at joint(s) 13 except 1=1214(LC 25), 16=3918(LC 1), 11=1034(LC 24)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-1929/142, 3-5=-920/175, 5-6=-701/190, 6-7=0/567, 7-9=0/1260, 9-11=-1299/239 BOT CHORD 1-21=-118/1646, 19-21=-118/1646, 17-19=-149/254, 16-17=-878/180, 14-16=-118/1051, 13-14=-118/1051, 11-13=-118/1051 WEBS 3-21=0/445, 3-19=-1037/197, 6-19=-9/1010, 6-17=-1494/144, 7-17=-41/1548, 9-16=-2189/332, 7-16=-2559/179	

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 5-7-3, Interior(1) 5-7-3 to 20-0-0, Exterior(2) 20-0-0 to 28-0-0, Interior(1) 28-0-0 to 36-4-8, Exterior(2) 36-4-8 to 44-3-9, Interior(1) 44-3-9 to 57-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) All plates are 5x8 MT20 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) WARNING: Required bearing size at joint(s) 16 greater than input bearing size.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 16 except (jt=lb) 11=159.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) 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



Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	Clearwater French	I51101117
FRENCH	A03	HIP	1	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:28:53 2022 Page 2
 ID:jww8HiiN90uFSTm7sxLqmezW8l3-Pd_gQOVnjqoqZpISakDTUYLS2aCqxWzqE04re3zVR18

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-5=-60, 5-7=-60, 7-35=-60, 35-37=-260(F=-200), 12-37=-60, 22-26=-20

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

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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Clearwater French	151101118
FRENCH	A04	HIP	5	1		

Job Reference (optional)

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:28:54 2022 Page 1
ID:jww8HilN90uFSTm7sxlQmezW8l3-tpY2djWPb1whBzKfkRki1mt3d_XJg?CzTfqOAWzVRl7

6-10-5 6-10-5 13-5-3 6-6-13 20-0-0 6-6-13 28-0-0 8-0-0 36-0-0 8-0-0 36-8-0 0-8-0

Scale = 1:66.7

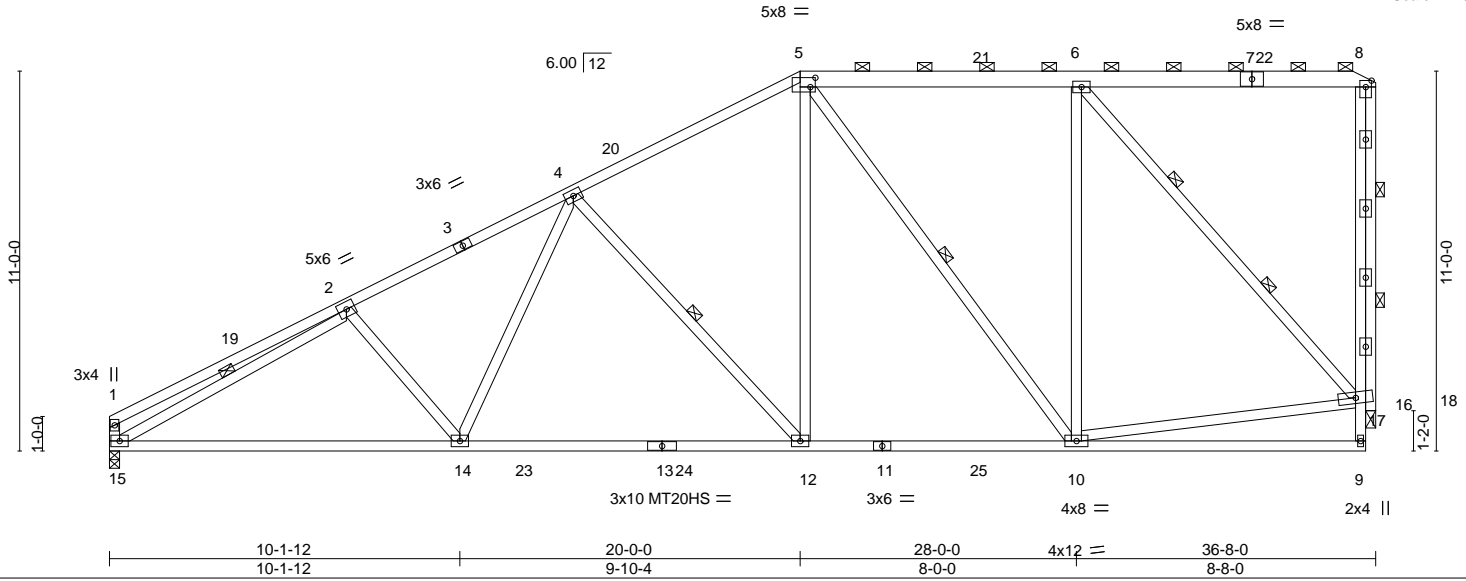


Plate Offsets (X,Y)-- [5:0-1-12,0-3-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.60	Vert(LL) -0.30	12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.52	12-14	>836	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.79	Horz(CT) 0.07	18	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.08	12-14	>999	240		
							Weight: 280 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
5-7,7-8: 2x6 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
9-11: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
5-10,8-17: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.
WEBS 1 Row at midpt 2-15, 4-12, 5-10
2 Rows at 1/3 pts 6-16, 8-18

REACTIONS.

(size) 15=0-3-8, 18=0-3-8
Max Horz 15=297(LC 12)
Max Uplift 15=-26(LC 12), 18=-86(LC 9)
Max Grav 15=1455(LC 1), 18=1432(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-357/85, 1-2=-461/71, 2-4=-2172/68, 4-5=-1523/100, 5-6=-955/80
BOT CHORD 14-15=-303/1970, 12-14=-200/1701, 10-12=-125/1302
WEBS 2-15=-1965/4, 4-14=0/477, 4-12=-652/170, 5-12=-25/812, 5-10=-600/105, 6-10=0/557,
8-16=-57/1235, 6-16=-1337/112, 10-16=-73/947, 8-18=-1433/119

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-9-10, Interior(1) 3-9-10 to 20-0-0, Exterior(2) 20-0-0 to 25-2-0, Interior(1) 25-2-0 to 36-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 18.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 1, 2022

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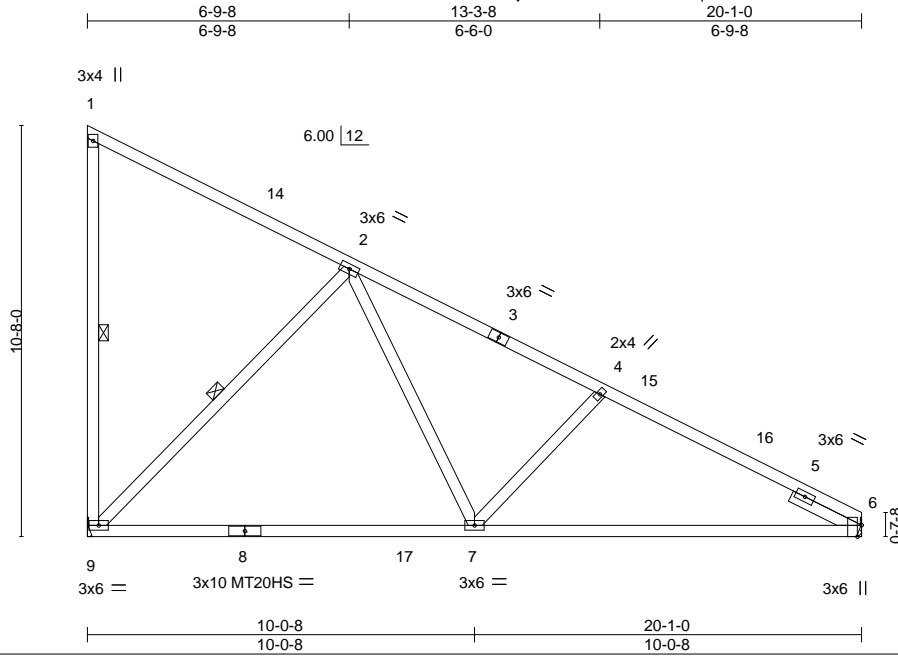
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Clearwater French	I51101119
FRENCH	A05	SPECIAL	2	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:28:55 2022 Page 1
 ID:jww8HilN90uFSTm7sxLqmezW8I3-L06Qr3X1MK2Yo6vrH9FfazQ84OqpPZr7iJZxiyzVRi6



Scale = 1:59.8

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

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 1.00	Vert(LL) -0.40	7-9	>600	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.97	Vert(CT) -0.64	7-9	>374	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.38	Horz(CT) 0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) -0.10	7-9	>999	240		
							Weight: 113 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 1-9, 2-9

REACTIONS.

(size) 9=Mechanical, 6=Mechanical
 Max Horz 9=-320(LC 10)
 Max Uplift 9=-32(LC 8)
 Max Grav 9=798(LC 1), 6=798(LC 1)

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

TOP CHORD 2-4=-959/85, 4-6=-1140/81
 BOT CHORD 7-9=0/600, 6-7=-1/1011
 WEBS 2-9=-762/118, 2-7=0/609, 4-7=-362/119

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 4-4-11, Interior(1) 4-4-11 to 20-1-0 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
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.



April 1, 2022

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

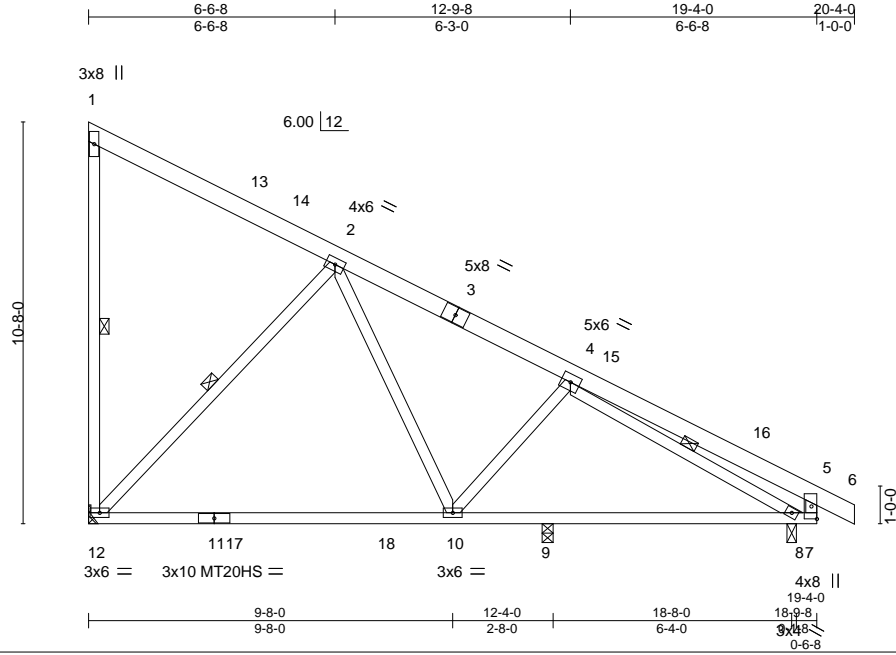
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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Clearwater French	151101120
FRENCH	A06	SPECIAL	3	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:28:56 2022 Page 1
 ID:jww8HilN90uFSTm7sxLqmezW8I3-pCgp2PYf7eAPQGU1rsmA6BzKkoBR8tLgwzJVFOzVR15



Scale = 1:61.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.94	Vert(LL) -0.25	10-12	>585	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.88	Vert(CT) -0.51	10-12	>285	240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.94	Horz(CT) 0.05	8	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Wind(LL) 0.09	10-12	>999	240		
	Code IRC2015/TPI2014						Weight: 139 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-13 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 1-12, 2-12, 4-8

REACTIONS. (size) 12=Mechanical, 9=0-3-8, 8=0-3-0
 Max Horz 12=-327(LC 10)
 Max Uplift 12=-108(LC 13), 9=-27(LC 18), 8=-95(LC 13)
 Max Grav 12=1706(LC 1), 9=122(LC 3), 8=1588(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-436/127, 2-4=-2371/256, 4-5=-359/38, 5-7=-347/97
 BOT CHORD 10-12=-51/1516, 9-10=-173/2246, 8-9=-173/2246, 7-8=0/284
 WEBS 2-12=-1984/303, 2-10=-43/827, 4-10=-693/174, 4-8=-2323/273

NOTES-
 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 4-4-10, Interior(1) 4-4-10 to 20-4-0 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
 2) All plates are MT20 plates unless otherwise indicated.
 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 5) Refer to girder(s) for truss to truss connections.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 8 except (jt=lb) 12=108.
 7) 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: 1-13=-60, 4-13=-260(F=-200), 4-5=-60, 5-6=-60, 7-12=-20

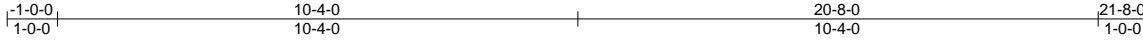


April 1, 2022

Job FRENCH	Truss B01G	Truss Type GABLE	Qty 1	Ply 1	Clearwater French Job Reference (optional)	I51101121
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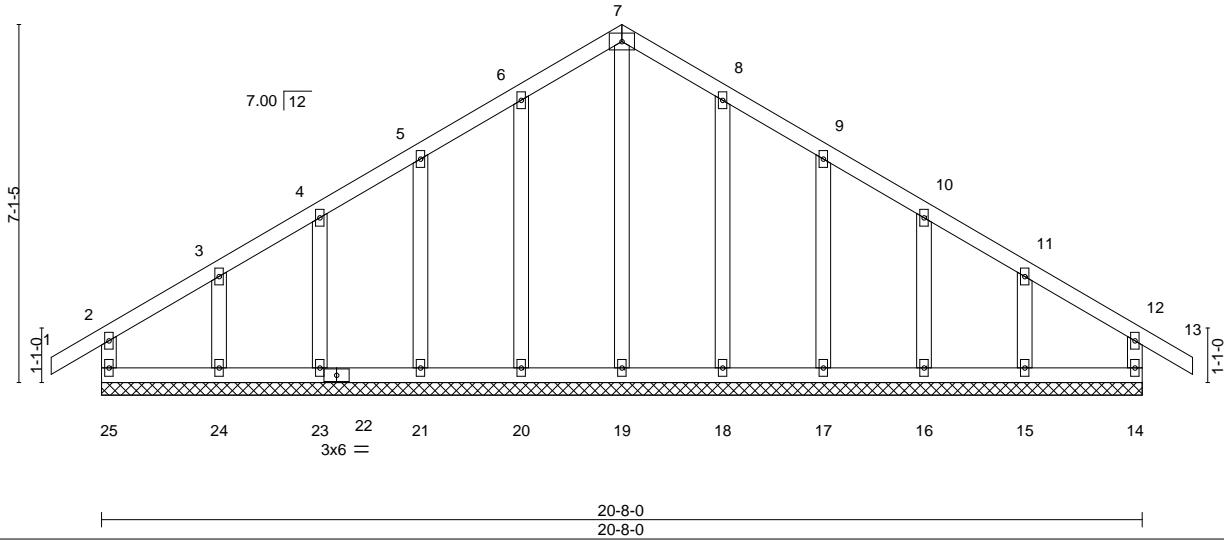
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:28:57 2022 Page 1
ID:jww8HilN90uFSTm7sxLqmezW8l3-IOEBGIYHuyJG2Q3EPaHPfOViPBJRtXLQ9d22nqzVRl4



4x6 =

Scale = 1:45.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) -0.00 13 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Vert(CT) -0.00 13 n/r 120		
BCDL 10.0	Rep Stress Incr NO	Matrix-R	Horz(CT) 0.00 14 n/a n/a		
	Code IRC2015/TPI2014			Weight: 125 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 6-0-0 oc bracing.

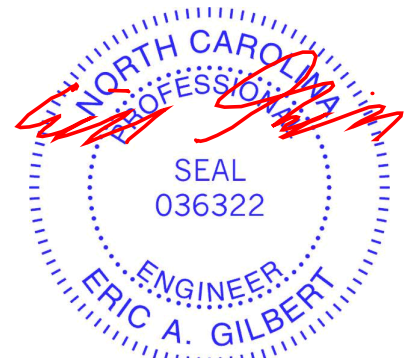
REACTIONS.

All bearings 20-8-0.
(lb) - Max Horz 25=155(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 25, 14, 20, 21, 23, 24, 18, 17, 16, 15
Max Grav All reactions 250 lb or less at joint(s) 25, 14, 19, 20, 21, 23, 24, 18, 17, 16, 15

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 10-4-0, Corner(3) 10-4-0 to 13-4-0, Exterior(2) 13-4-0 to 21-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 14, 20, 21, 23, 24, 18, 17, 16, 15.



April 1, 2022

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

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

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

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

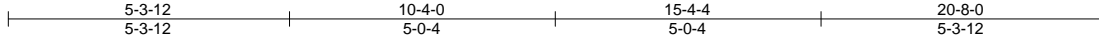


818 Soundside Road
Edenton, NC 27932

Job FRENCH	Truss B01GR	Truss Type COMMON	Qty 1	Ply 3	Clearwater French Job Reference (optional)	151101122
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:28:59 2022 Page 1

ID:jww8HiiN90uFSTm7sXLqmezW8I3-EnLxhRaYPZZ_HkCcW_Kukpbx??K_LIHjcxX9sjzVR12



4x6 ||

Scale = 1:43.5

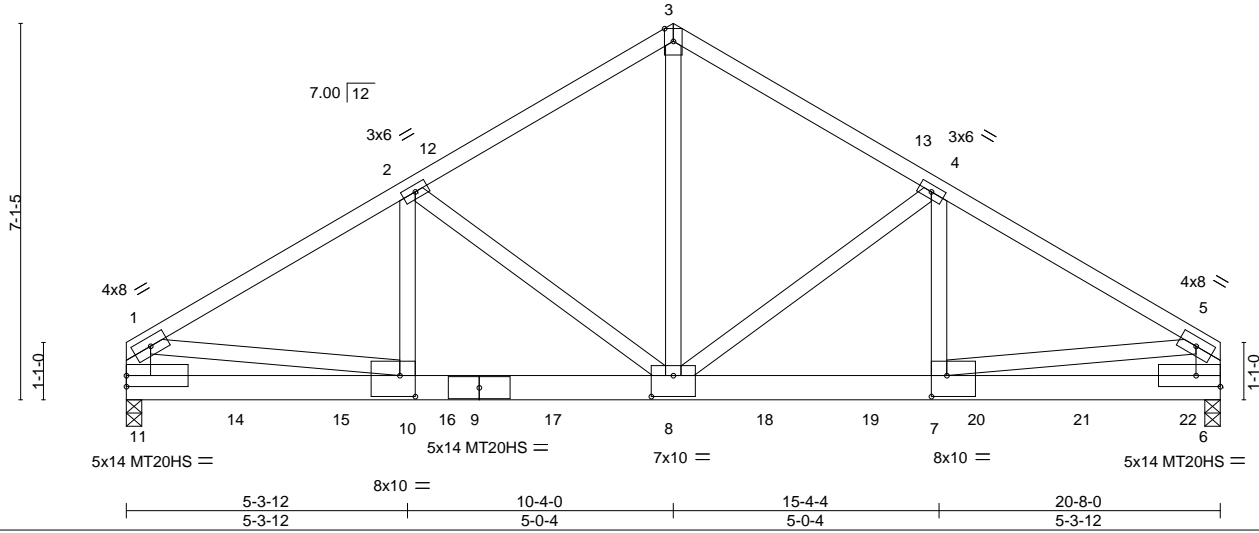


Plate Offsets (X,Y)-- [7:0-3-8,0-4-12], [8:0-5-0,0-4-12], [10:0-3-8,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.10	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.20	7-8	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.67	Horz(CT) 0.03	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.07	7-8	>999	240		
							Weight: 415 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP DSS
 WEBS 2x4 SP No.3 *Except*
 1-11,5-6: 2x6 SP No.2, 3-8,5-7,1-10: 2x4 SP No.2

BRACING-

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

REACTIONS.

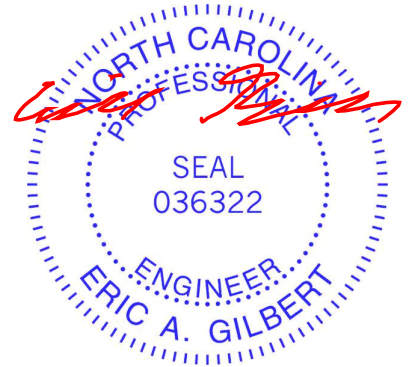
(size) 11=0-3-8, 6=0-3-8 (req. 0-3-14)
 Max Horz 11=-140(LC 6)
 Max Uplift 11=-558(LC 8), 6=-613(LC 9)
 Max Grav 11=8525(LC 1), 6=9932(LC 1)

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

TOP CHORD 1-11=-7012/476, 1-2=-11189/732, 2-3=-8504/567, 3-4=-8504/567, 4-5=-11451/711, 5-6=-7163/463
 BOT CHORD 10-11=-238/1908, 8-10=-643/9585, 7-8=-565/9810, 6-7=-150/2017
 WEBS 3-8=-529/8179, 4-8=-3172/272, 4-7=-187/3151, 5-7=-441/7893, 2-8=-2923/295, 2-10=-211/2936, 1-10=-453/7775

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 6 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=558, 6=613.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1670 lb down and 136 lb up at 2-0-12, 1670 lb down and 136 lb up at 4-0-12, 1670 lb down and 136 lb up at 6-0-12, 1670 lb down and 136 lb up at 8-0-12, 1707 lb down and 123 lb up at 10-0-12, 1707 lb down and 123 lb up at 12-0-12, 1707 lb down and 123 lb up at 14-0-12, 1707 lb down and 123 lb up at 16-0-12, and 1707 lb down and 123 lb up at 18-0-12, and 1712 lb down and 117 lb up at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



April 1, 2022

LOAD CASE(S) Standard

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Clearwater French	I51101122
FRENCH	B01GR	COMMON	1	3	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:28:59 2022 Page 2
 ID:jww8HiiN90uFSTm7sxlqmezW8I3-EnLxhRaYPZZ_HkCcW_Kukpbx??K_LIHjcxX9sjzVRI2

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 6-11=-20

Concentrated Loads (lb)

Vert: 8=-1707(B) 14=-1648(B) 15=-1648(B) 16=-1648(B) 17=-1648(B) 18=-1707(B) 19=-1707(B) 20=-1707(B) 21=-1707(B) 22=-1712(B)

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

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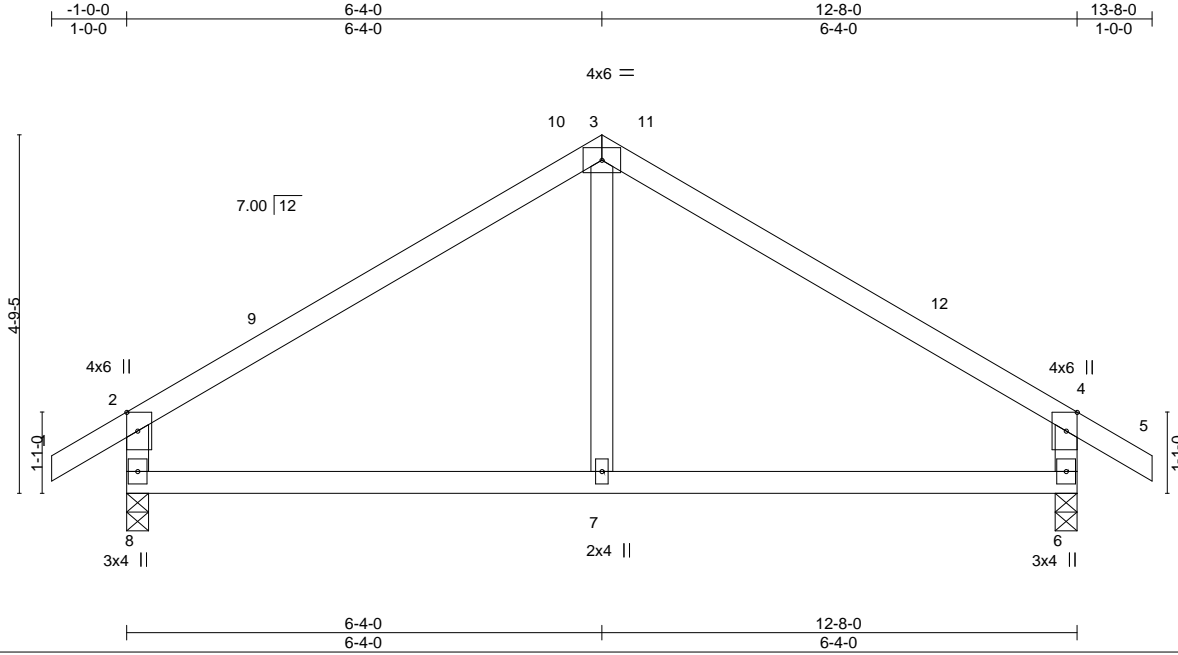


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Clearwater French	151101123
FRENCH	C01	COMMON	2	1		

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:28:59 2022 Page 1
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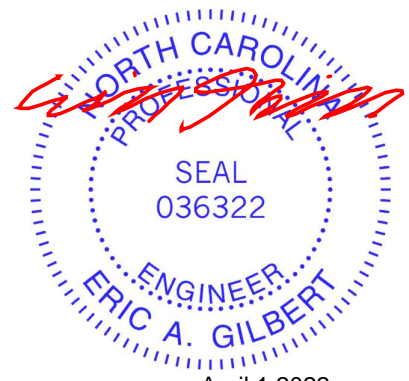
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.08	6-7	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	6	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	-0.02	7-8	>999	240	Weight: 53 lb	FT = 20%	

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

REACTIONS. (size) 8=0-3-8, 6=0-3-8
 Max Horz 8=-109(LC 10)
 Max Uplift 8=-19(LC 12), 6=-19(LC 13)
 Max Grav 8=564(LC 1), 6=564(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-494/108, 2-3=-525/63, 3-4=-525/63, 4-6=-494/108
 BOT CHORD 7-8=0/360, 6-7=0/360

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-4-0, Exterior(2) 6-4-0 to 10-6-15, Interior(1) 10-6-15 to 13-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.



April 1, 2022

Job FRENCH	Truss C01G	Truss Type GABLE	Qty 1	Ply 1	Clearwater French Job Reference (optional)	151101124
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

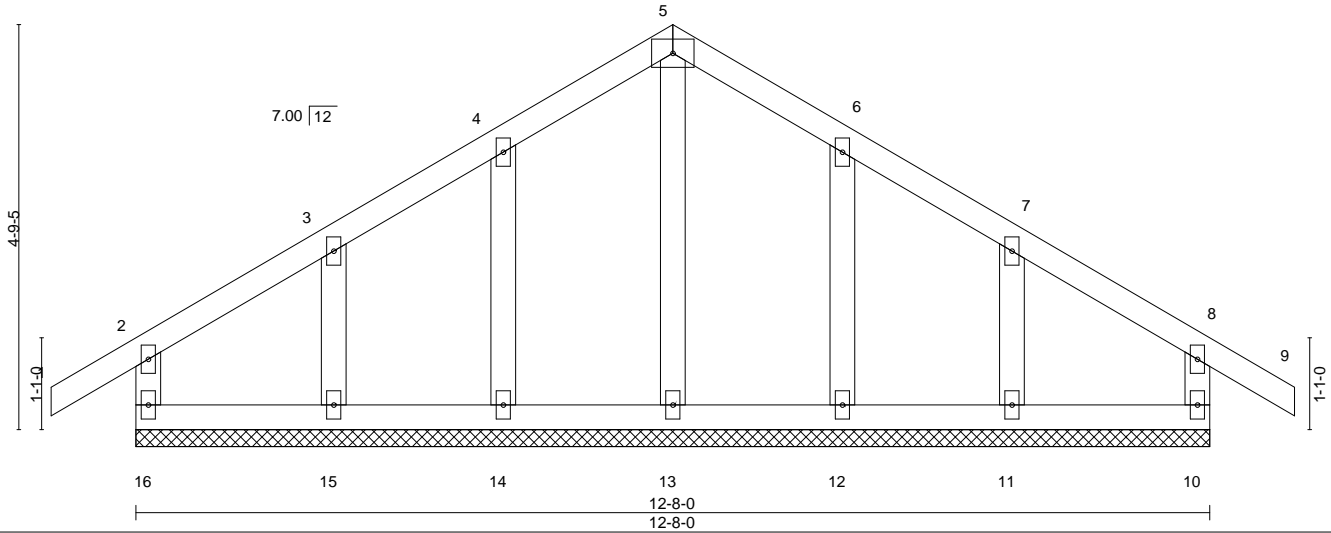
8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:01 2022 Page 1

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4x6 =

Scale = 1:27.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.00	9	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	9	n/r	120		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 67 lb	FT = 20%

LUMBER-

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

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.

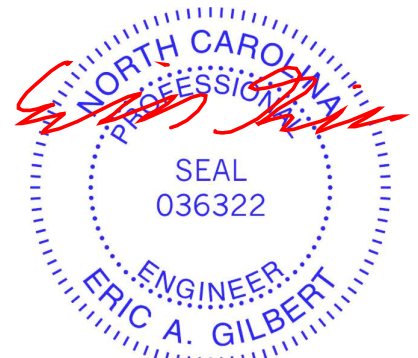
REACTIONS.

All bearings 12-8-0.
 (lb) - Max Horz 16=109(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 6-4-0, Corner(3) 6-4-0 to 9-4-0, Exterior(2) 9-4-0 to 13-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.



April 1, 2022

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

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



818 Soundside Road
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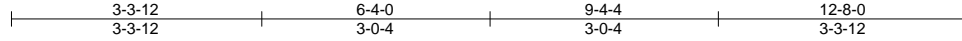
Job	Truss	Truss Type	Qty	Ply	Clearwater French	151101125
FRENCH	C01GR	COMMON	1	2	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:02 2022 Page 1

ID:jww8HilN90uFSTm7sxLqmezW8I3-eM14JScQIUxZ8BxBC7tbMSDSeCMkYe_9JvmpS2zVRI?



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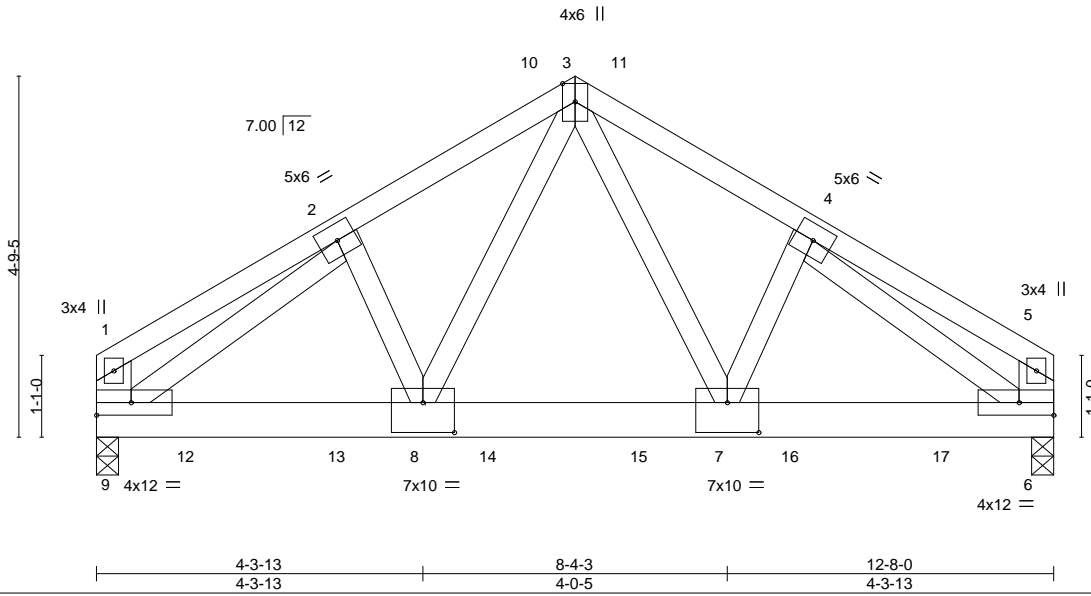


Plate Offsets (X,Y)-- [7:0-5-0,0-4-12], [8:0-5-0,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.05	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.09	7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.73	Horz(CT) 0.02	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.03	7-8	>999	240		
							Weight: 171 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP DSS
 WEBS 2x4 SP No.3 *Except*
 1-9,5-6: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 9=0-3-8, 6=0-3-8
 Max Horz 9=-94(LC 6)
 Max Uplift 6=-266(LC 9)
 Max Grav 9=4183(LC 1), 6=5296(LC 2)

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

TOP CHORD 1-9=-618/0, 1-2=-1001/0, 2-3=-5043/66, 3-4=-5675/302, 4-5=-1505/106, 5-6=-876/75
 BOT CHORD 8-9=-41/4048, 7-8=-71/3438, 6-7=-200/4582
 WEBS 3-7=-355/3548, 4-7=-106/841, 4-6=-4422/174, 3-8=0/2176, 2-8=-95/804, 2-9=-4288/130

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=266.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 778 lb down at 1-2-12, 778 lb down at 3-2-12, 1768 lb down and 137 lb up at 5-2-12, 1768 lb down and 137 lb up at 7-2-12, and 1768 lb down and 137 lb up at 9-2-12, and 1768 lb down and 137 lb up at 11-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-5=-60, 6-9=-20



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Continued on page 2

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

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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Clearwater French	I51101125
FRENCH	C01GR	COMMON	1	2	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:02 2022 Page 2
 ID:jww8HilN90uFSTm7sxLqmezW8I3-eM14JScQiUxZ8BxBC7tbMSDSeCMkYe_9JvmpS2zVRI?

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 12=-778(B) 13=-778(B) 14=-1737(B) 15=-1737(B) 16=-1737(B) 17=-1737(B)

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

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



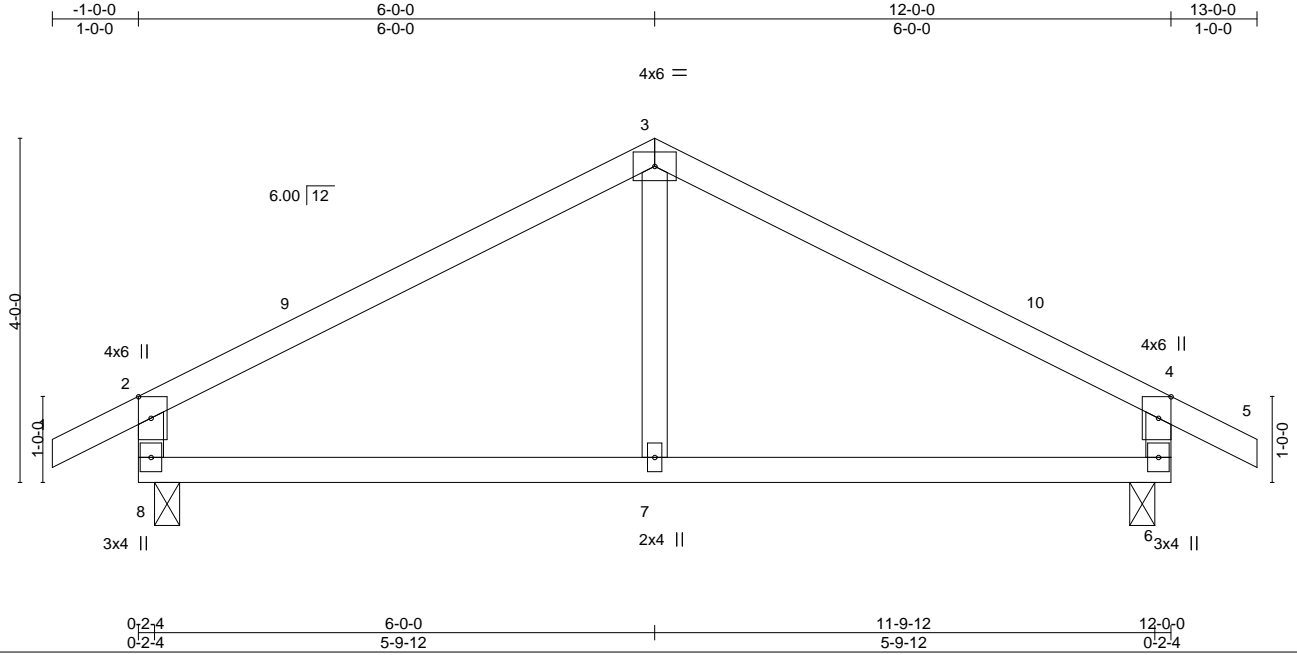
818 Soundside Road
 Edenton, NC 27932

Job FRENCH	Truss D01	Truss Type COMMON	Qty 2	Ply 1	Clearwater French Job Reference (optional)	151101126
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:03 2022 Page 1

ID:jww8HiIN90uFSTm7sxlQmezW8I3-6YbSWod2T03PmLWNlqOqufYScjZHFLIXZVM?UzVRI_



Scale = 1:26.8

Plate Offsets (X,Y)--	[2:0-3-0,Edge], [4:0-3-0,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.03	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.07	7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR	Wind(LL) 0.01	7-8	>999	240	Weight: 48 lb	FT = 20%

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

REACTIONS. (size) 8=0-3-8, 6=0-3-8
 Max Horz 8=56(LC 11)
 Max Uplift 8=-23(LC 12), 6=-23(LC 13)
 Max Grav 8=537(LC 1), 6=537(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-468/136, 2-3=-523/83, 3-4=-523/81, 4-6=-468/133
 BOT CHORD 7-8=0/384, 6-7=0/384

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1'-0" to 2'-0", Interior(1) 2'-0" to 6'-0", Exterior(2) 6'-0" to 10'-2-15", Interior(1) 10'-2-15" to 13'-0" zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.



April 1, 2022

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

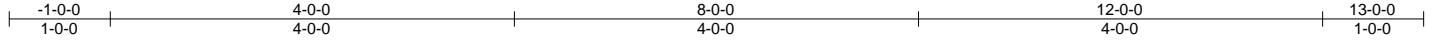


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Clearwater French	151101127
FRENCH	D01GR	HIP	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:04 2022 Page 1

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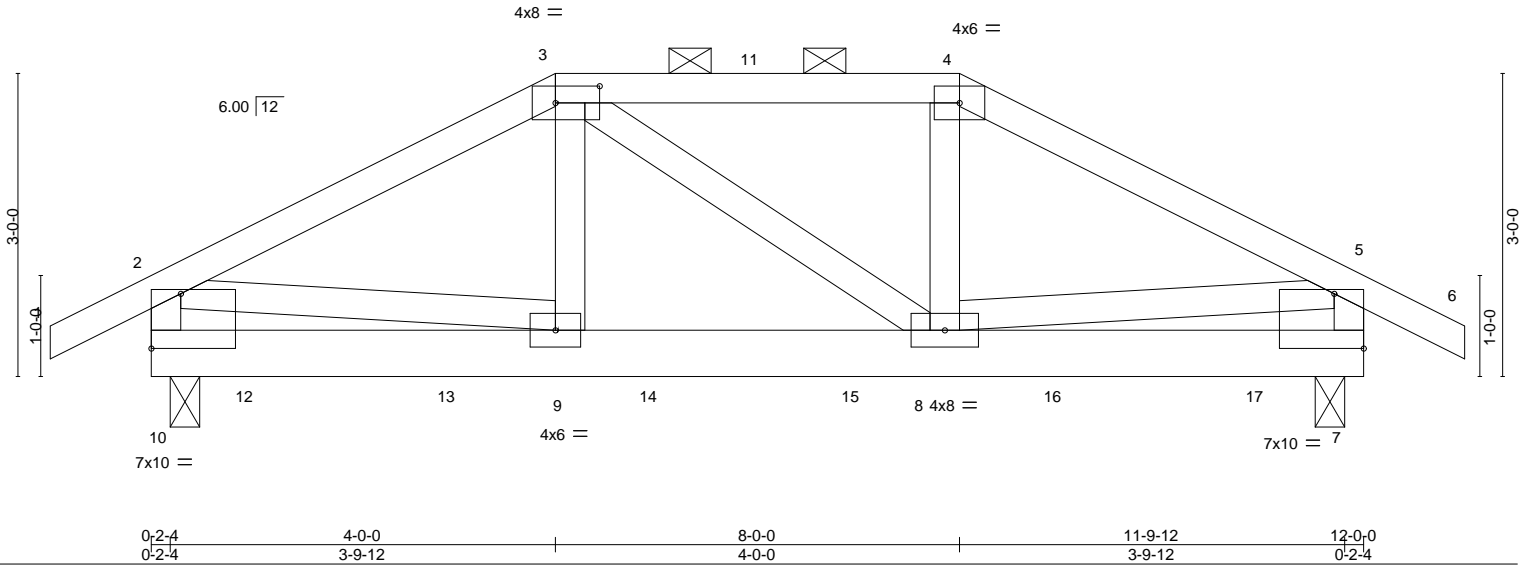


Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [7:Edge,0-6-8], [10:Edge,0-6-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.02	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.03	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.27	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.01	8-9	>999	240	Weight: 76 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-9-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 10=0-3-8, 7=0-3-8
 Max Horz 10=44(LC 7)
 Max Uplift 10=-159(LC 8), 7=-158(LC 9)
 Max Grav 10=880(LC 1), 7=881(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-10=-722/141, 2-3=-982/175, 3-4=-844/175, 4-5=-981/174, 5-7=-717/140
 BOT CHORD 8-9=-130/835
 WEBS 2-9=-106/642, 5-8=-107/635

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=159, 7=158.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 49 lb up at 1-0-0, 118 lb down and 43 lb up at 3-0-0, 118 lb down and 57 lb up at 5-0-0, 118 lb down and 57 lb up at 7-0-0, and 118 lb down and 43 lb up at 9-0-0, and 109 lb down and 47 lb up at 11-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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

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

Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-5=-60, 5-6=-60, 7-10=-20

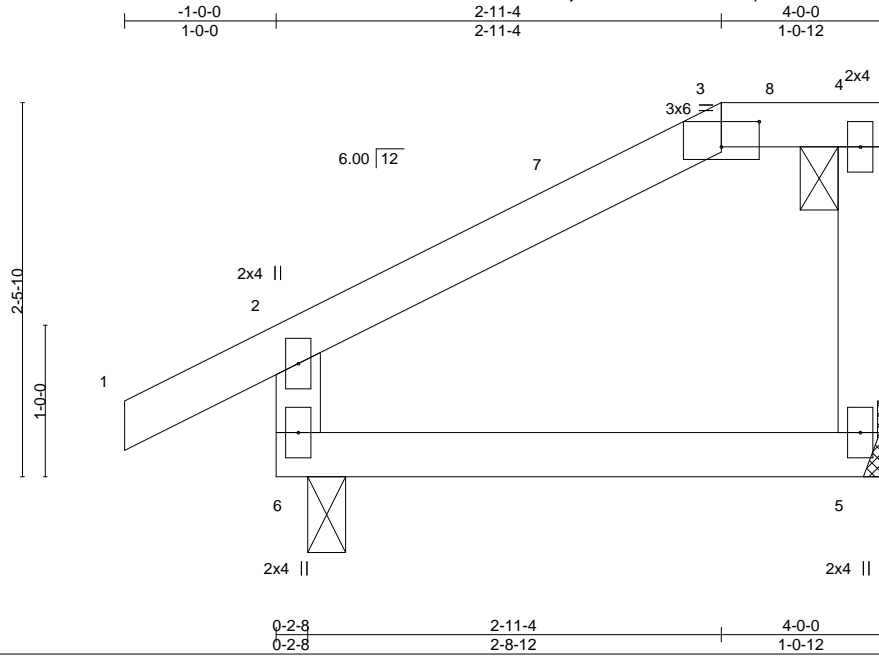
Concentrated Loads (lb)
 Vert: 12=-108(B) 13=-118(B) 14=-118(B) 15=-118(B) 16=-118(B) 17=-109(B)



April 1, 2022

Job FRENCH	Truss J02	Truss Type MONO HIP	Qty 2	Ply 1	Clearwater French Job Reference (optional)	151101129
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:05 2022 Page 1
 ID:jww8HiiN90uFSTm7sxlQmezW8I3-3xiCxFJ?PJ7?fgmtFQI_4q2DQRzI9sb?t_T2NzVRky



Scale = 1:15.2

Plate Offsets (X,Y)--	[3:0-3-0,0-2-0]
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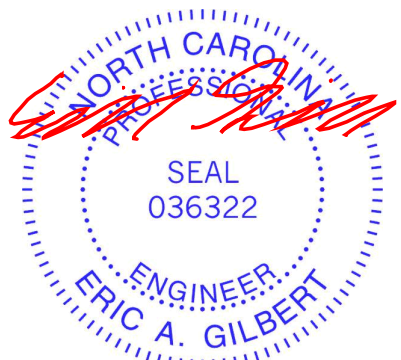
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) -0.01	5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.02	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.01	5-6	>999	240	Weight: 18 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 4-5: 2x4 SP No.3	

REACTIONS. (size) 6=0-3-0, 5=Mechanical
 Max Horz 6=51(LC 12)
 Max Uplift 6=-13(LC 12), 5=-23(LC 12)
 Max Grav 6=228(LC 1), 5=138(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-11-4, Exterior(2) 2-11-4 to 3-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



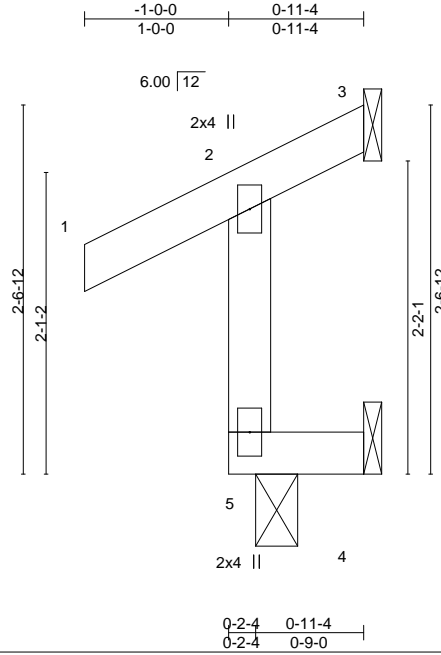
April 1, 2022

Job	Truss	Truss Type	Qty	Ply	Clearwater French	151101130
FRENCH	J03	JACK	2	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:06 2022 Page 1

ID:jww8HilN90uFSTm7sxLqmezW8I3-X7Gb9qfxmjR_dpFyRzyXWINDTpoCUcSIDXk1apzVRkx



Scale: 3/4"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) -0.00	5	>999	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.00	5	>999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01	3	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR						Weight: 7 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 0-11-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

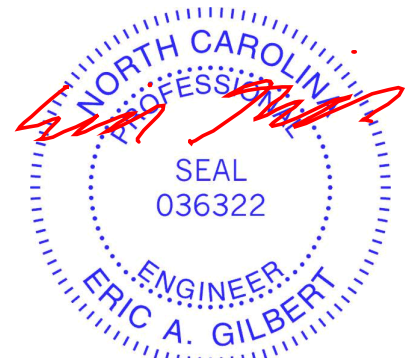
REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=46(LC 9)
 Max Uplift 5=-5(LC 8), 3=-31(LC 9), 4=-37(LC 9)
 Max Grav 5=150(LC 1), 3=11(LC 10), 4=33(LC 10)

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

NOTES-

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



April 1, 2022

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

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818 Soundside Road
 Edenton, NC 27932

Job FRENCH	Truss J03GR	Truss Type MONO HIP	Qty 2	Ply 1	Clearwater French	I51101131
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:07 2022 Page 1

ID:jvw8HilN90uFSTm7sxLqmezW8I3-?KqzMAGZX0ZrEyp9_gTm3VwOBD8gD3RuSBTa7FzVRkw

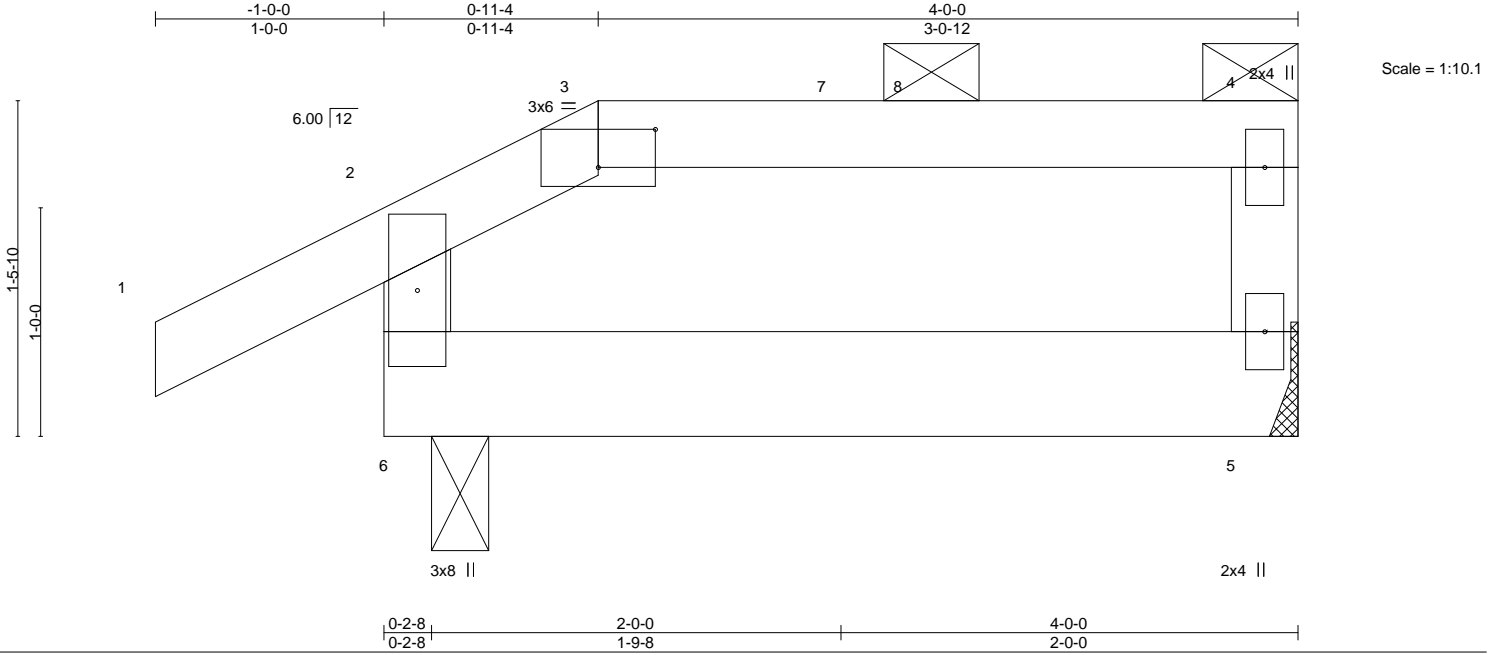


Plate Offsets (X,Y)--	[3:0-3-0,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) -0.00	5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.01	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.02	Horz(CT) 0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.00	5-6	>999	240	Weight: 19 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 4-5: 2x4 SP No.3	

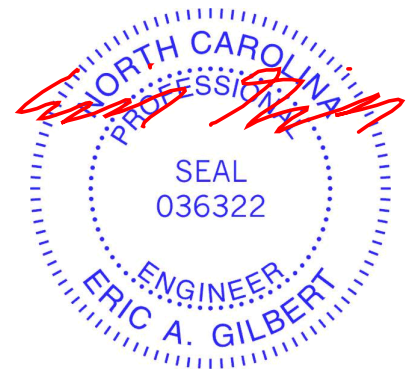
REACTIONS. (size) 6=0-3-0, 5=Mechanical
 Max Horz 6=27(LC 5)
 Max Uplift 6=-37(LC 8), 5=-29(LC 5)
 Max Grav 6=215(LC 1), 5=128(LC 20)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Header(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 75 lb up at 2-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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

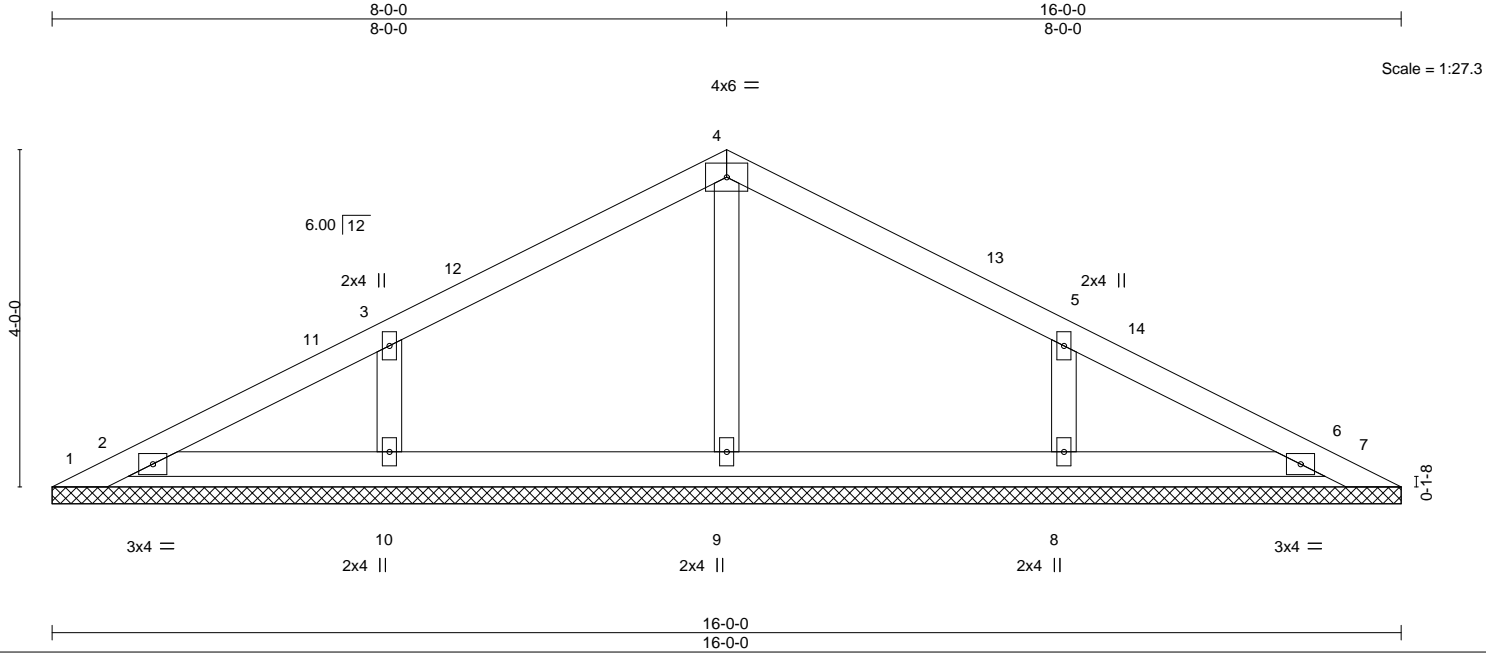
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-6=-20
 Concentrated Loads (lb)
 Vert: 7=27(B)



April 1, 2022

Job	Truss	Truss Type	Qty	Ply	Clearwater French	151101132
FRENCH	PB01	GABLE	24	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:08 2022 Page 1
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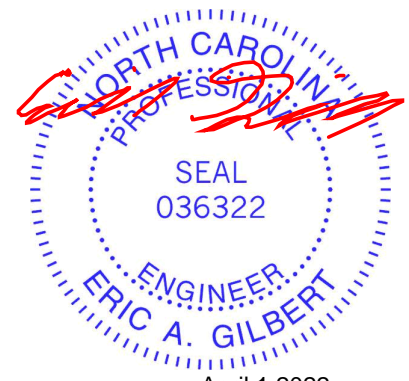
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.21	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.00 6 n/a n/a	Weight: 57 lb	FT = 20%
	Code IRC2015/TPI2014				

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

REACTIONS. All bearings 16-0-0.
 (lb) - Max Horz 1=51(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6, 10, 8
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6 except 9=281(LC 1), 10=322(LC 23), 8=322(LC 24)

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

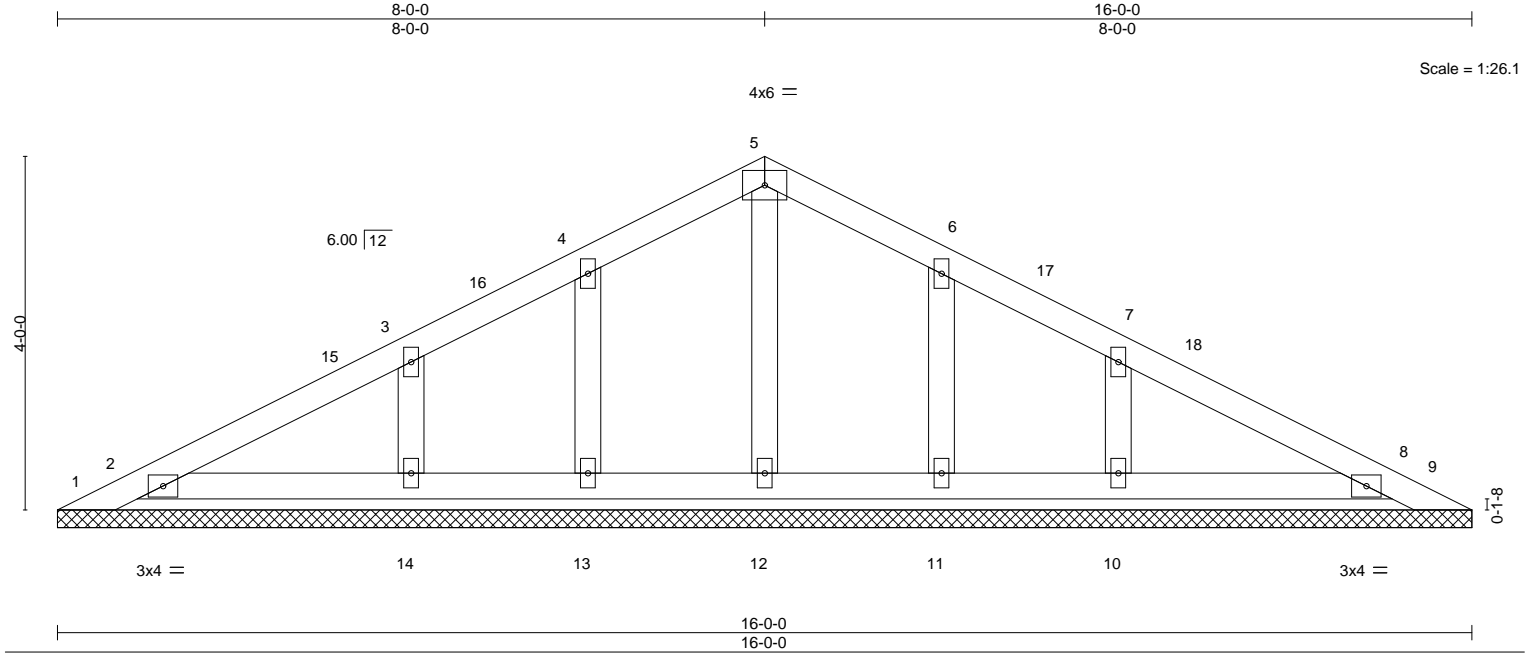
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-15 to 3-3-15, Exterior(2) 3-3-15 to 8-0-0, Corner(3) 8-0-0 to 11-0-0, Exterior(2) 11-0-0 to 15-8-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 2, 6, 10, 8.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



April 1, 2022

Job	Truss	Truss Type	Qty	Ply	Clearwater French	151101133
FRENCH	PB01G	GABLE	2	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:10 2022 Page 1
 ID:jww8HilN90uFSTm7sxLqmezW8l3-PuW5_CiRqxxQ6QYjgo0Th8YwvR9RQqvK89iEjazVRkt



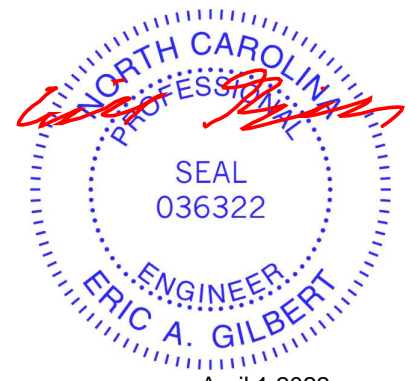
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 63 lb	FT = 20%

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

REACTIONS. All bearings 16-0-0.
 (lb) - Max Horz 1=51(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 8, 12, 13, 14, 11, 10

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCdL=6.0psf; BCdL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-15 to 3-3-15, Exterior(2) 3-3-15 to 8-0-0, Corner(3) 8-0-0 to 11-0-0, Exterior(2) 11-0-0 to 15-8-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 2, 8, 13, 14, 11, 10.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

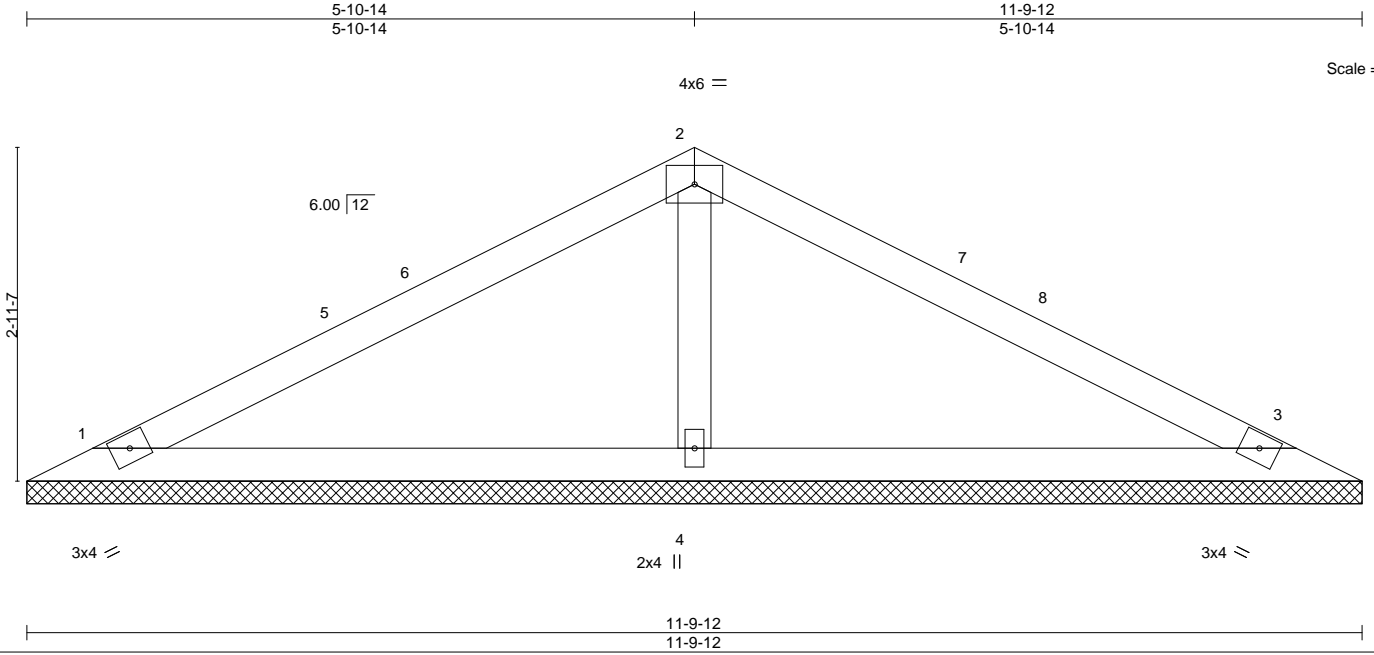


April 1, 2022

Job	Truss	Truss Type	Qty	Ply	Clearwater French	I51101134
FRENCH	V01	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:11 2022 Page 1

ID:jww8HiIN90uFSTm7sxLqmezW8I3-t54UCXj3bF3Hja7wDWXiDL4y_qPO9sbUNpRoG0zVRks



Scale = 1:20.4

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 0.68	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 39 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=11-9-12, 3=11-9-12, 4=11-9-12
 Max Horz 1=-35(LC 17)
 Max Uplift 1=-20(LC 12), 3=-26(LC 13)
 Max Grav 1=194(LC 23), 3=194(LC 24), 4=463(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-308/87

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-7-7 to 3-7-7, Interior(1) 3-7-7 to 5-10-14, Exterior(2) 5-10-14 to 8-10-14, Interior(1) 8-10-14 to 11-2-6 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



April 1, 2022

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

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

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

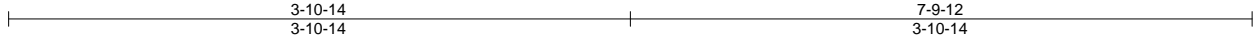
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



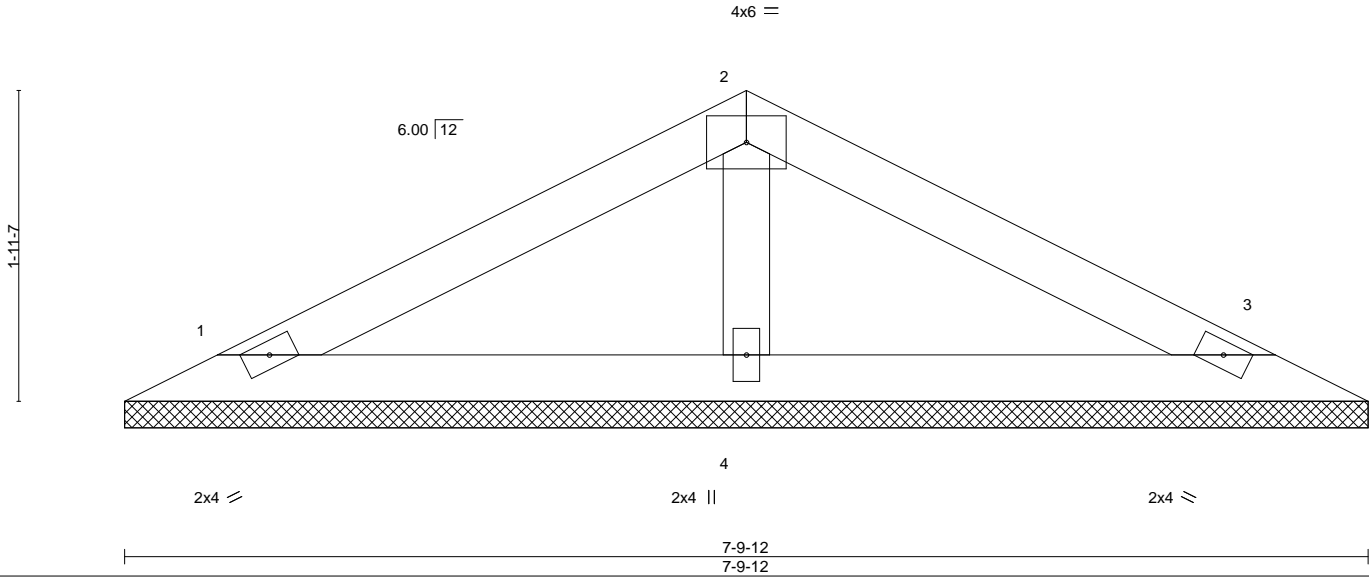
818 Soundside Road
 Edenton, NC 27932

Job FRENCH	Truss V02	Truss Type VALLEY	Qty 1	Ply 1	Clearwater French Job Reference (optional)	151101135
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:12 2022 Page 1
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Scale = 1:14.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 25 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.

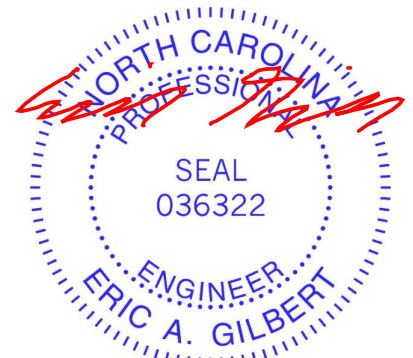
REACTIONS.

(size) 1=7-9-12, 3=7-9-12, 4=7-9-12
 Max Horz 1=22(LC 12)
 Max Uplift 1=-12(LC 12), 3=-16(LC 13)
 Max Grav 1=121(LC 23), 3=121(LC 24), 4=288(LC 1)

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

NOTES-

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



April 1, 2022

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

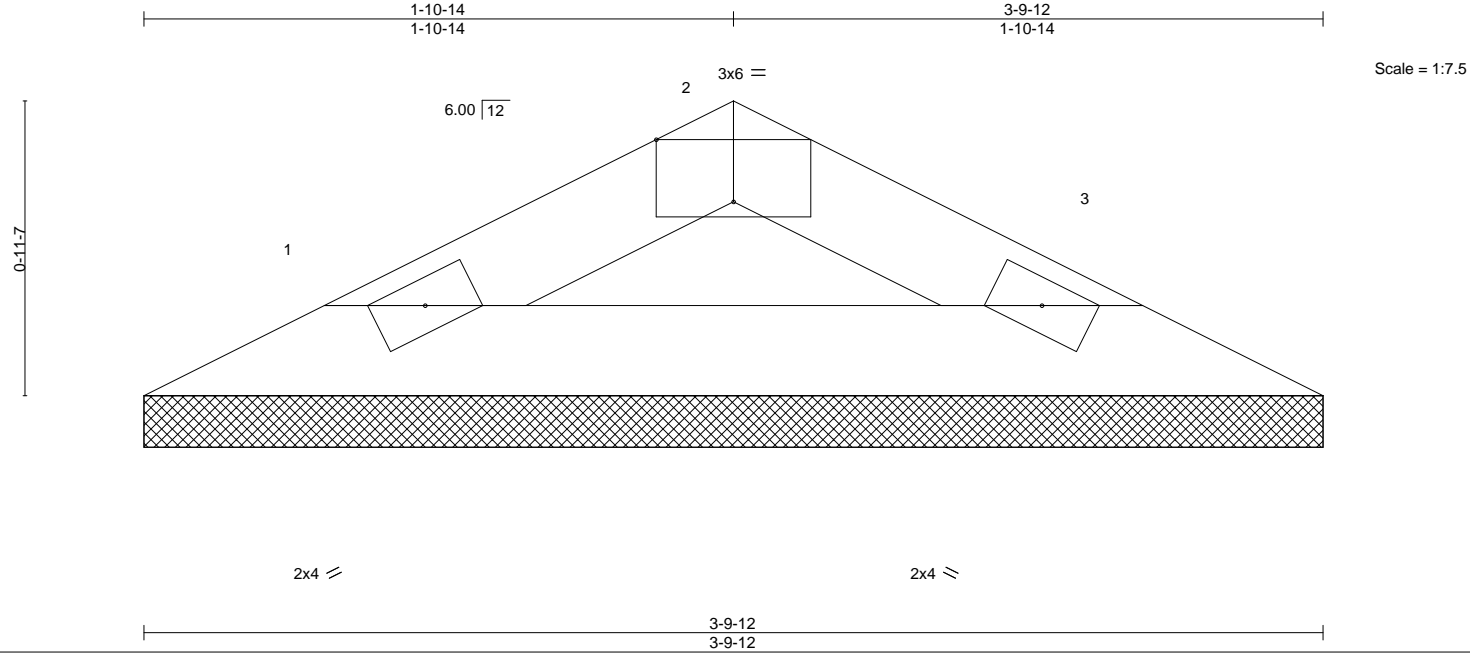
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Clearwater French	151101136
FRENCH	V03	VALLEY	1	1		

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:13 2022 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999	Weight: 10 lb FT = 20%		
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									

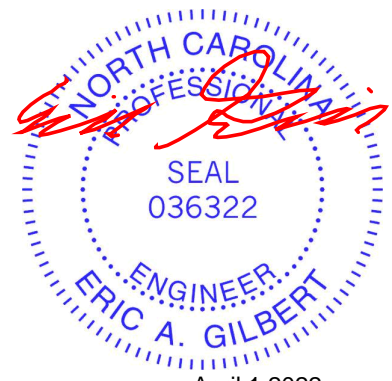
LUMBER-
 TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-9-12, 3=3-9-12
 Max Horz 1=9(LC 16)
 Max Uplift 1=-3(LC 12), 3=-3(LC 13)
 Max Grav 1=103(LC 1), 3=103(LC 1)

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

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

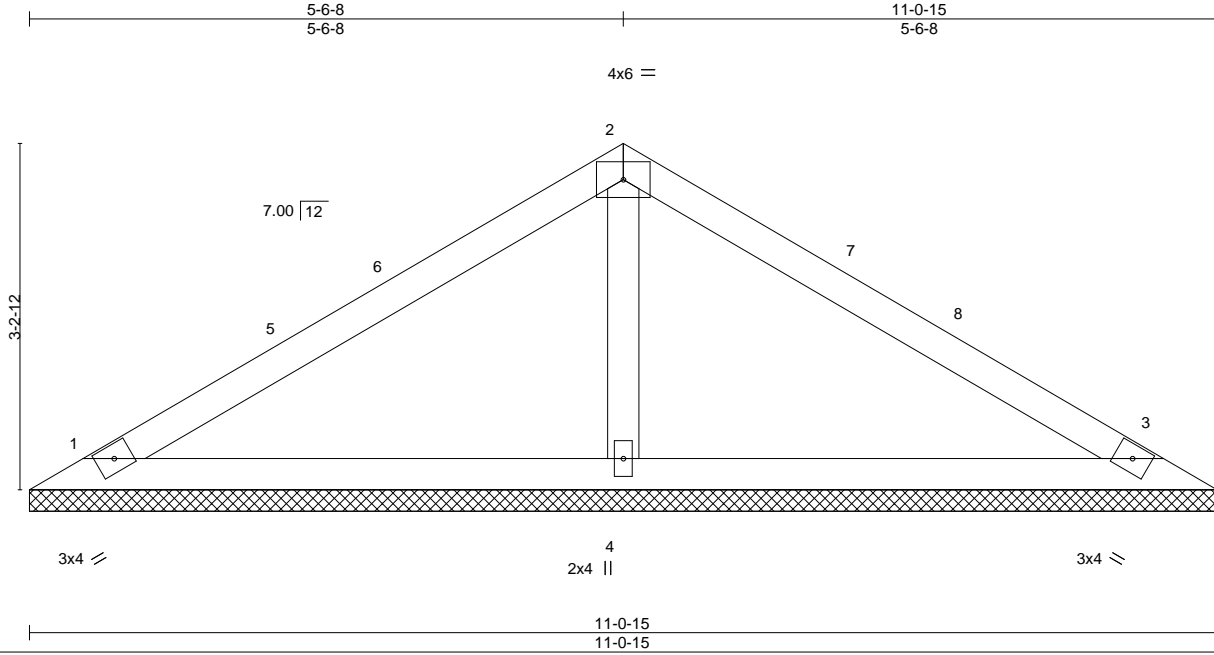


April 1, 2022

Job	Truss	Truss Type	Qty	Ply	Clearwater French	I51101137
FRENCH	V12	GABLE	1	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:13 2022 Page 1
ID:jww8HiiN90uFSTm7sxLqmezW8l3-qTBEdDIK6sK?ztHILxaAlmAJhe6cdm7mq7wuKvzVRKq



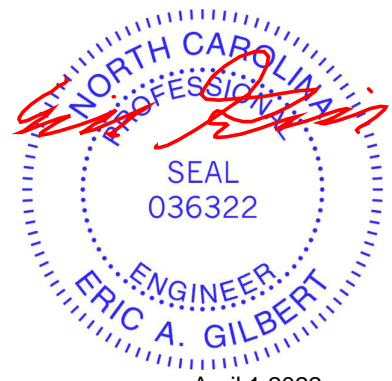
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.42	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 3 n/a n/a	Weight: 38 lb	FT = 20%
	Code IRC2015/TPI2014				

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

REACTIONS. (size) 1=11-0-15, 3=11-0-15, 4=11-0-15
 Max Horz 1=57(LC 11)
 Max Uplift 1=18(LC 12), 3=-26(LC 13)
 Max Grav 1=188(LC 23), 3=188(LC 24), 4=424(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-4=-277/61

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 5-6-8, Exterior(2) 5-6-8 to 8-6-8, Interior(1) 8-6-8 to 10-6-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

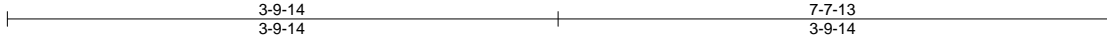


April 1, 2022

Job	Truss	Truss Type	Qty	Ply	Clearwater French	I51101138
FRENCH	V13	VALLEY	1	1	Job Reference (optional)	

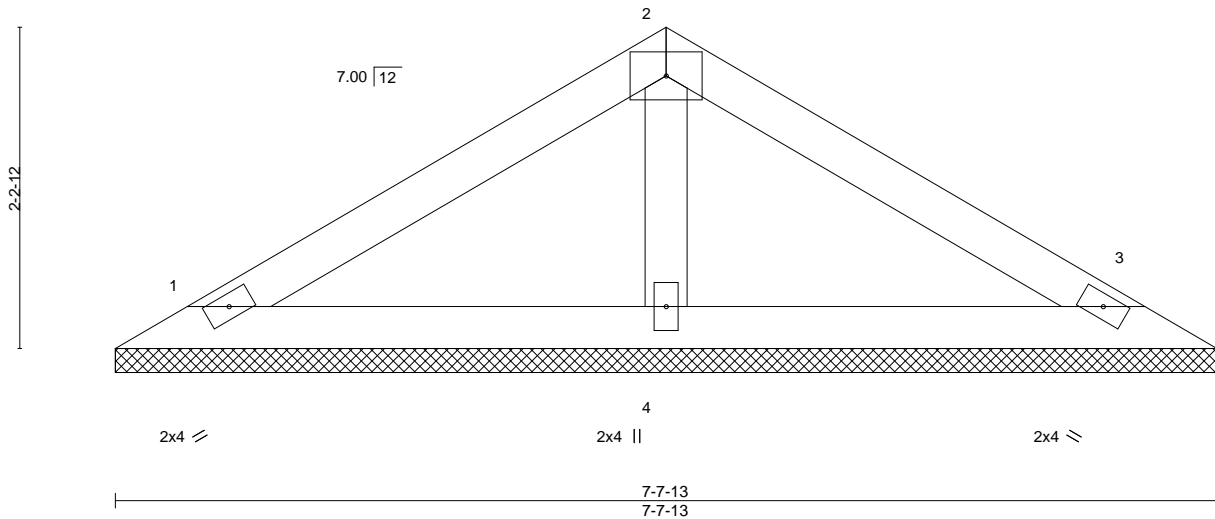
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:14 2022 Page 1
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4x6 =

Scale: 3/4"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						Weight: 25 lb	FT = 20%
	Code IRC2015/TPI2014								

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=7-7-13, 3=7-7-13, 4=7-7-13
Max Horz 1=-38(LC 8)
Max Uplift 1=-12(LC 12), 3=-17(LC 13)
Max Grav 1=124(LC 23), 3=124(LC 24), 4=279(LC 1)

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

NOTES-

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



April 1, 2022

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



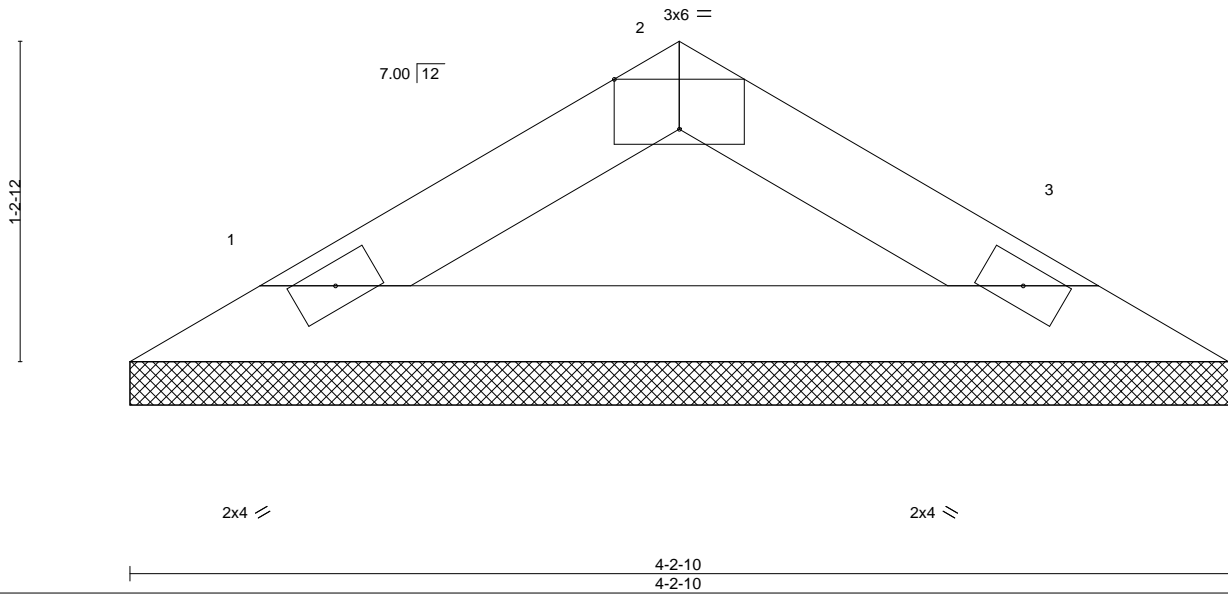
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Clearwater French	151101139
FRENCH	V14	VALLEY	1	1		

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:15 2022 Page 1
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Scale = 1:8.9



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	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	Weight: 12 lb FT = 20%		
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									

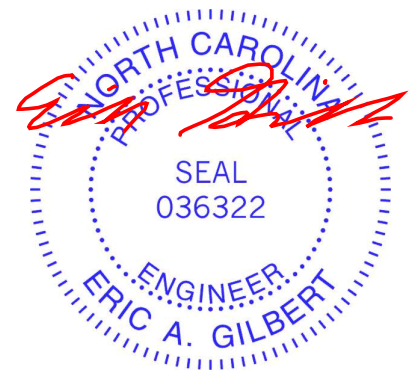
LUMBER-
 TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.3

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

REACTIONS. (size) 1=4-2-10, 3=4-2-10
 Max Horz 1=-18(LC 10)
 Max Uplift 1=-4(LC 12), 3=-4(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.

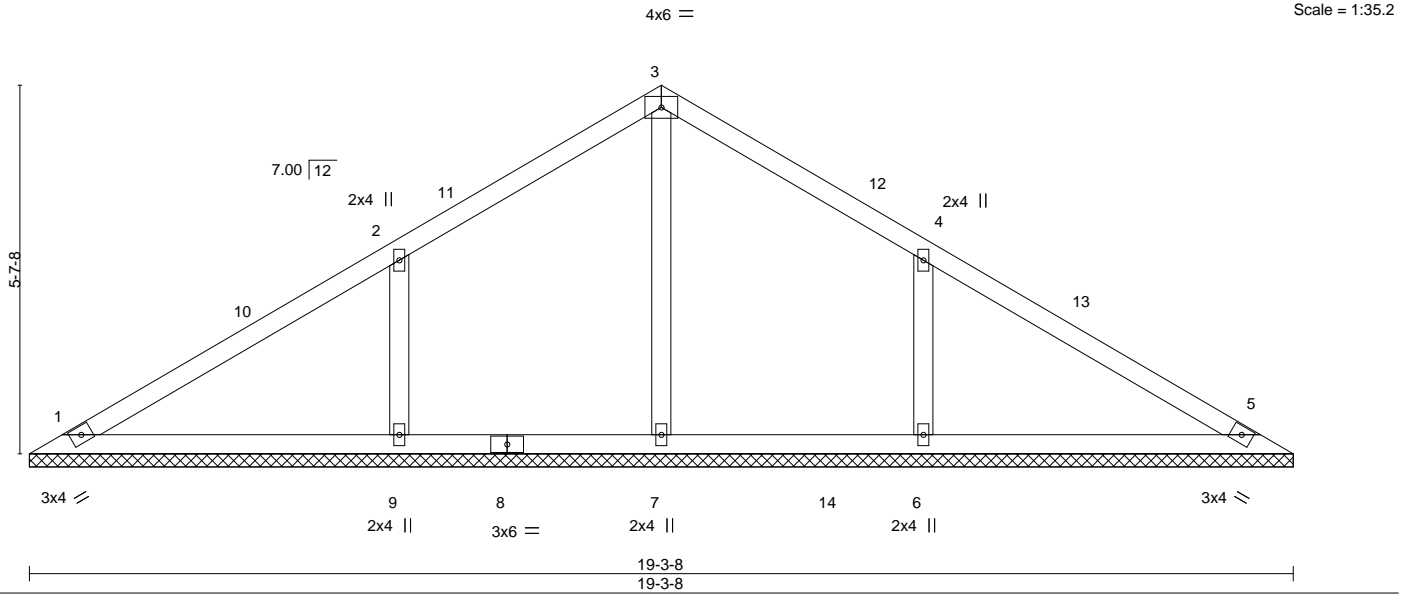
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right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



April 1, 2022

Job FRENCH	Truss V15	Truss Type GABLE	Qty 1	Ply 1	Clearwater French Job Reference (optional)	151101140
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:16 2022 Page 1
 ID:jww8HilN90uFSTm7sxLqmezW8I3-E2tMFFnCPniZqL0t037twOoqRr8Oq7aDX59YxEzVRkn
 9-7-12 9-7-12 19-3-8 19-3-8 9-7-12



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.57	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.35	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						Weight: 76 lb	FT = 20%
	Code IRC2015/TPI2014								

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 19-3-8.
 (lb) - Max Horz 1=105(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=319(LC 22), 9=469(LC 19), 6=474(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-9=-335/156, 4-6=-334/156

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 9-7-12, Exterior(2) 9-7-12 to 12-7-12, Interior(1) 12-7-12 to 18-9-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 6.



April 1, 2022

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

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

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



818 Soundside Road
 Edenton, NC 27932

Job FRENCH	Truss V16	Truss Type GABLE	Qty 1	Ply 1	Clearwater French Job Reference (optional)	I51101141
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:17 2022 Page 1
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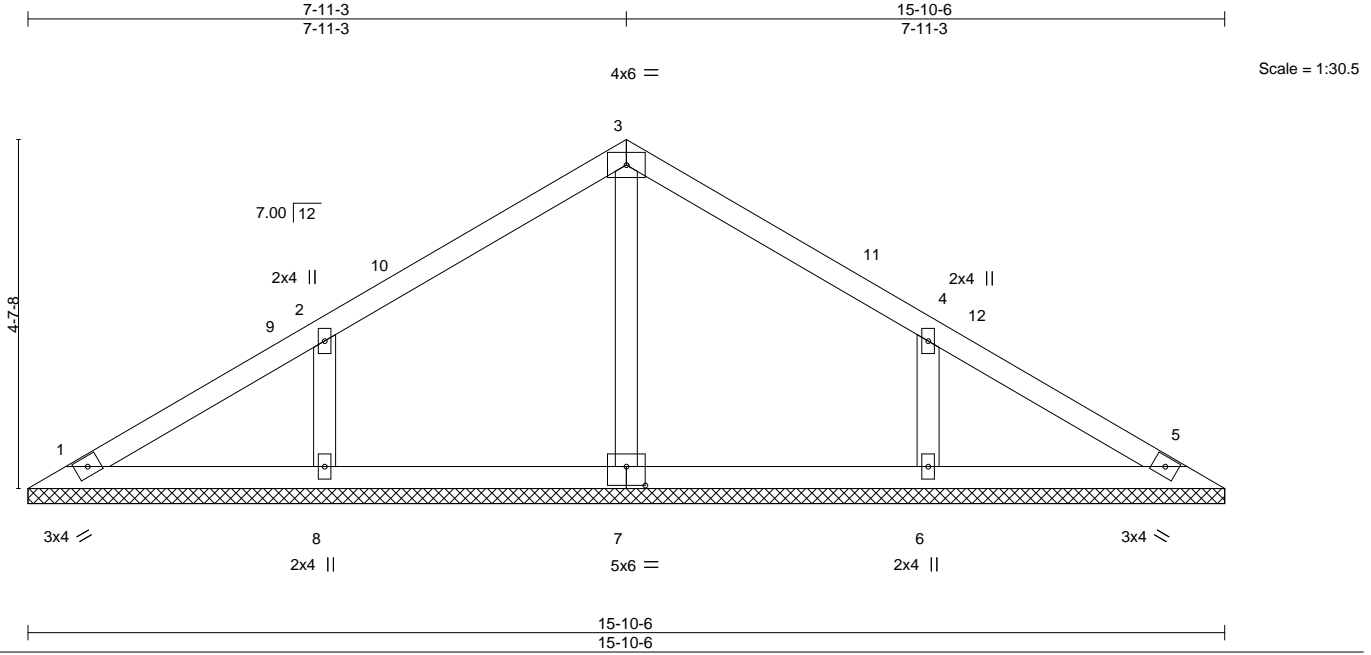


Plate Offsets (X,Y)-- [7:0-3-0,0-3-0] 15-10-6 15-10-6

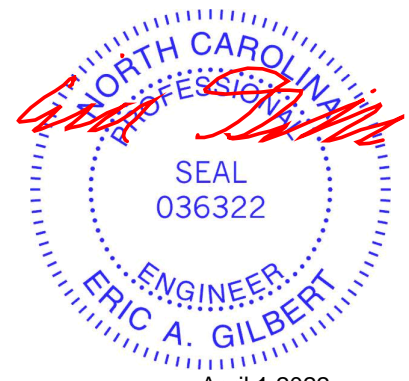
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 60 lb	FT = 20%

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

REACTIONS. All bearings 15-10-6.
 (lb) - Max Horz 1=85(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=263(LC 1), 8=352(LC 19), 6=352(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-266/126, 4-6=-266/126

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 7-11-3, Exterior(2) 7-11-3 to 10-11-3, Interior(1) 10-11-3 to 15-3-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6.



April 1, 2022

Job FRENCH	Truss V17	Truss Type GABLE	Qty 1	Ply 1	Clearwater French Job Reference (optional)	151101142
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:18 2022 Page 1
 ID:jww8HiiN90uFSTm7sxLqmezW8I3-AR?7gxpSxPyH3f9G8U9L?ptE1fs8I2cW_Oef07zVRkl

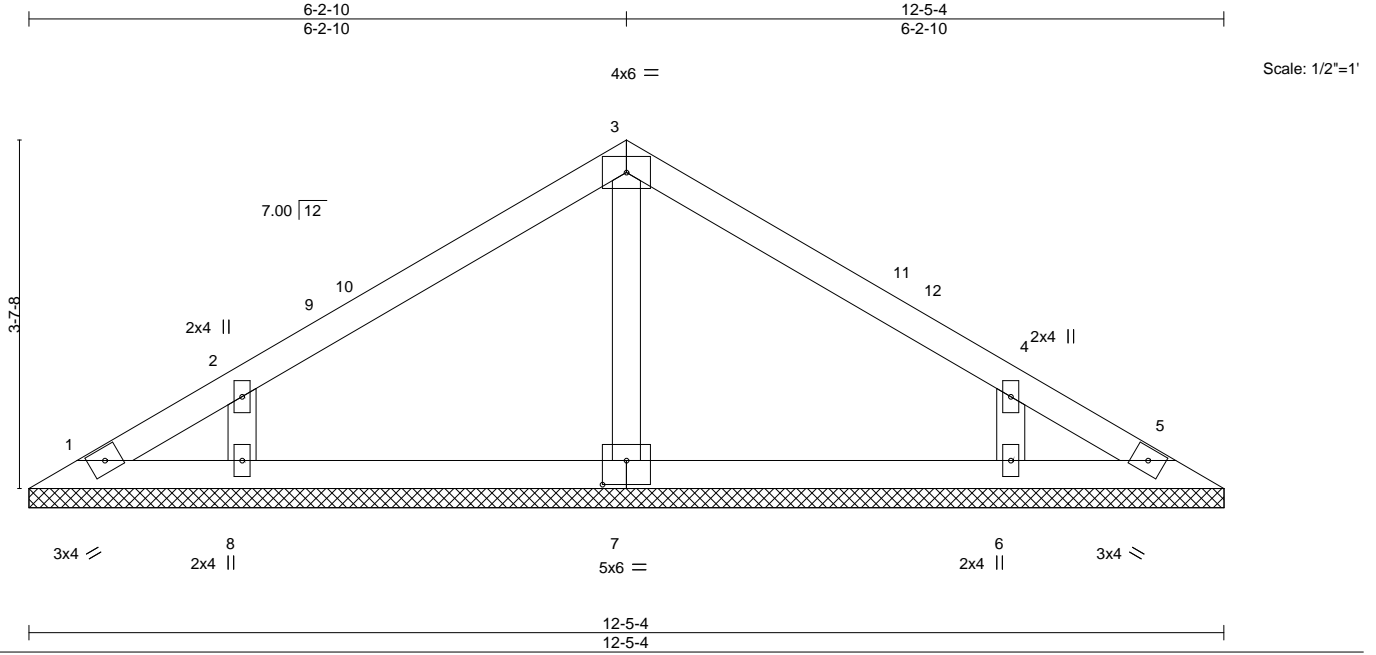


Plate Offsets (X,Y)-- [7:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	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 0.05	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 45 lb	FT = 20%

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

REACTIONS. All bearings 12-5-4.
 (lb) - Max Horz 1=65(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=279(LC 1), 8=295(LC 23), 6=295(LC 24)

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

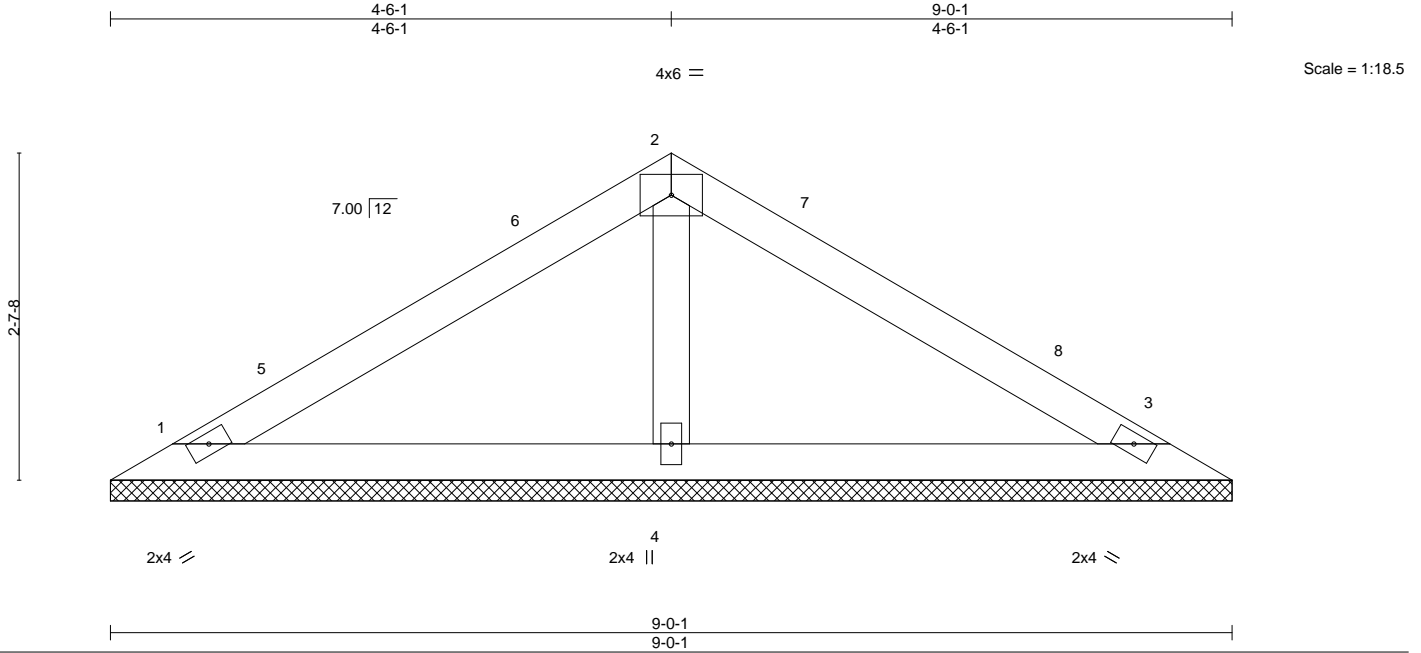
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 6-2-10, Exterior(2) 6-2-10 to 9-2-10, Interior(1) 9-2-10 to 11-10-12 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
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.



April 1, 2022

Job	Truss	Truss Type	Qty	Ply	Clearwater French	I51101143
FRENCH	V18	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:19 2022 Page 1
 ID:jww8HiiN90uFSTm7sxLqmezW8l3-edZvTgP5ii48hokShBhaY1QOv3BS1VxfD2NDYZzVRkk



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.27	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 30 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=9-0-1, 3=9-0-1, 4=9-0-1
 Max Horz 1=-46(LC 8)
 Max Uplift 1=-15(LC 12), 3=-21(LC 13)
 Max Grav 1=149(LC 23), 3=149(LC 24), 4=336(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-6-1, Exterior(2) 4-6-1 to 7-6-1, Interior(1) 7-6-1 to 8-5-10 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



April 1, 2022

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

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

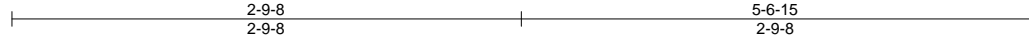
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



818 Soundside Road
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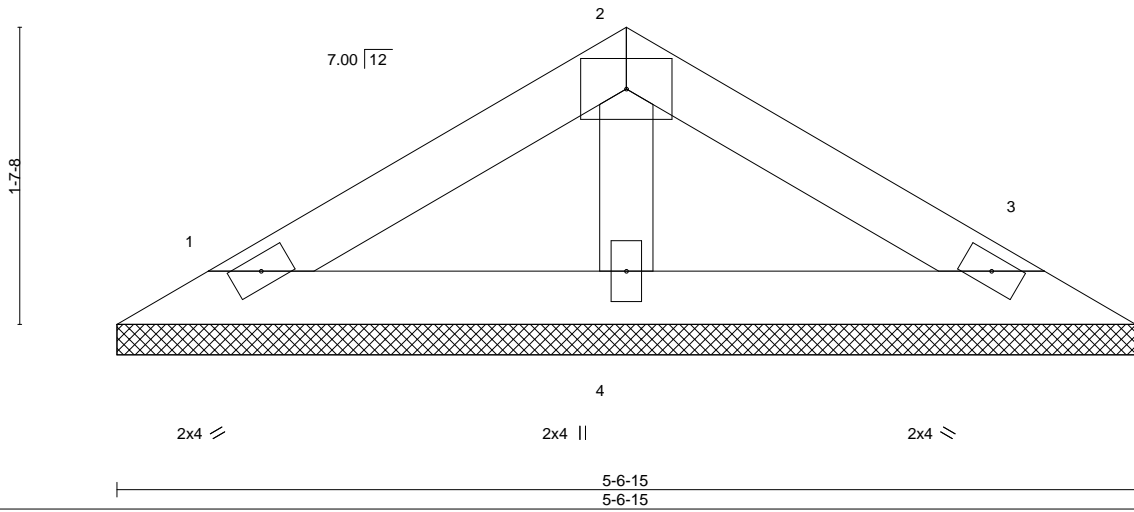
Job	Truss	Truss Type	Qty	Ply	Clearwater French	151101144
FRENCH	V19	VALLEY	1	1		

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Mar 31 10:29:20 2022 Page 1
 ID:jww8HilN90uFSTm7sxLqmezW8I3-7q6t5cjqT0C?lyJeFvCp5Eyc2TaTmyYoRi7m4z2VRkj



4x6 =

Scale = 1:12.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a	Weight: 18 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-6-15, 3=5-6-15, 4=5-6-15
 Max Horz 1=26(LC 9)
 Max Uplift 1=-12(LC 12), 3=-15(LC 13)
 Max Grav 1=93(LC 1), 3=93(LC 1), 4=173(LC 1)

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

NOTES-

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



April 1, 2022

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

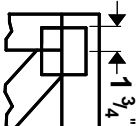
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



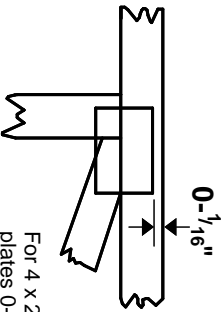
818 Soundside Road
 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

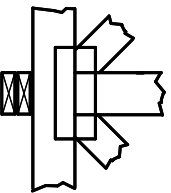
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



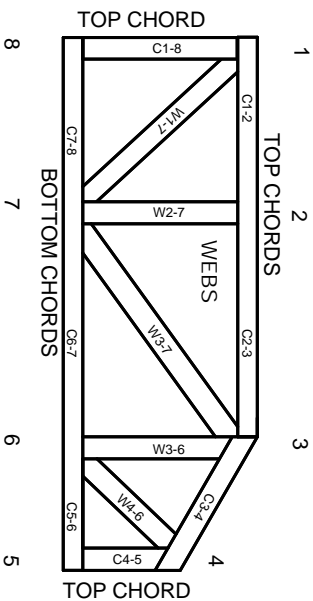
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

Lumber design values are in accordance with ANSI/TFP 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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