ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: Master_French
MATTAMY HOMES/REDWOOD/FRENCH COUNTRY

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: I53118213 thru I53118244

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

North Carolina COA: C-0844

July 16,2022

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	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	A01T-2PL	HIP	1	2	I53118213
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:49:44 2022 Page 1
ID:I4aFSohUB3AZsI1Dxo?QKDyyp17-UQTiOJr0sTjArzdtgvsNvYPoHkH7_ZWIbSNo8XyxtyL

1-0-0	2-3-8	4-0-0	9-2-8	14-5-0	19-5-4	24-3-12	29-4-0	33-4-0	34-4-0
1-0-0	2-3-8	1-8-8	5-2-8	5-2-8	5-0-4	4-10-8	5-0-4	4-0-0	1-0-0

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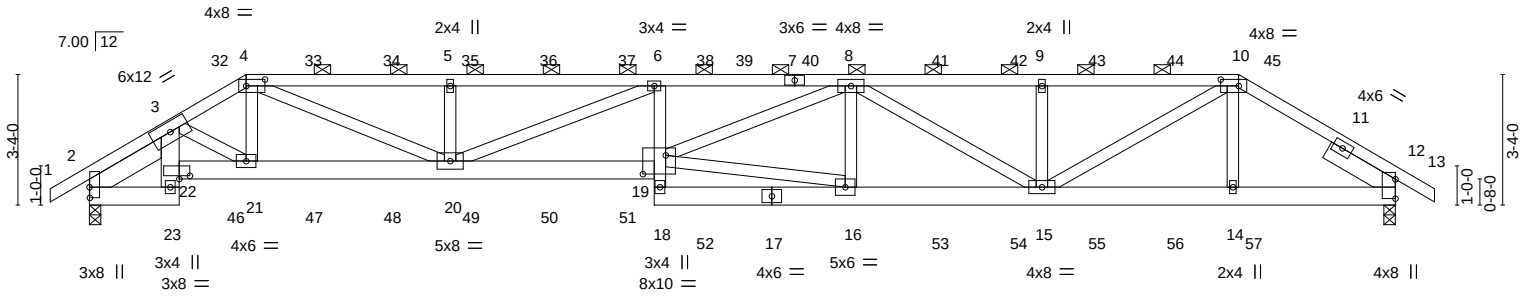

2-3-8	4-0-0	9-2-8	14-5-0	19-5-4	24-3-12	29-4-0	33-4-0
2-3-8	1-8-8	5-2-8	5-2-8	5-0-4	4-10-8	5-0-4	4-0-0

Plate Offsets (X,Y)-- [2:0-3-4,0-0-2], [4:0-5-12,0-2-0], [10:0-5-8,0-2-0], [19:0-7-0,0-5-12], [22:0-3-4,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.27	19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.54	19	>743	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.12	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.35	18	>999	240	Weight: 432 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 6-18: 2x4 SP No.2
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 2-2-11, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (4-3-13 max.): 4-10.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 18-19

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=-58(LC 6)
Max Uplift 2=-528(LC 8), 12=-1502(LC 9)
Max Grav 2=1877(LC 1), 12=1967(LC 1)

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

TOP CHORD	2-3=-981/306, 3-4=-3428/1043, 4-5=-5472/1696, 5-6=-5472/1696, 6-8=-7230/2395, 8-9=-4265/1973, 9-10=-4265/1973, 10-12=-2757/2160
BOT CHORD	2-23=-606/1959, 21-22=-873/2808, 20-21=-925/2970, 19-20=-2449/7418, 6-19=-192/473, 16-18=-302/897, 15-16=-1904/5178, 14-15=-1793/2274, 12-14=-1763/2284
WEBS	4-21=-115/367, 4-20=-872/2751, 5-20=-412/149, 6-20=-2114/835, 16-19=-1630/4355, 8-19=-534/2225, 8-16=-719/416, 8-15=-1077/0, 9-15=-421/192, 10-15=-186/2333, 10-14=-619/0

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=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
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 528 lb uplift at joint 2 and 1502 lb uplift at joint 12.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Continued on page 2

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NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 54 lb down and 45 lb up at 3-8-0, 30 lb down and 46 lb up at 5-8-0, 30 lb down and 46 lb up at 7-8-0, 30 lb down and 46 lb up at 9-8-0, 30 lb down and 46 lb up at 11-8-0, 30 lb down and 46 lb up at 13-8-0, 39 lb down and 65 lb up at 15-8-0, 39 lb down and 65 lb up at 17-8-0, 39 lb down and 65 lb up at 19-8-0, 39 lb down and 65 lb up at 21-8-0, 39 lb down and 65 lb up at 23-8-0, 39 lb down and 65 lb up at 25-8-0, and 39 lb down and 65 lb up at 27-8-0, and 296 lb down and 464 lb up at 29-8-0 on top chord, and 76 lb down and 111 lb up at 3-8-0, 33 lb down and 25 lb up at 5-8-0, 33 lb down and 25 lb up at 7-8-0, 33 lb down and 25 lb up at 9-8-0, 33 lb down and 25 lb up at 11-8-0, 33 lb down and 25 lb up at 13-8-0, 32 lb down at 15-8-0, 32 lb down at 17-8-0, 32 lb down at 19-8-0, 32 lb down at 21-8-0, 32 lb down at 23-8-0, 32 lb down at 25-8-0, and 32 lb down at 27-8-0, and 969 lb up at 29-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-10=-60, 10-13=-60, 23-24=-20, 19-22=-20, 18-28=-20
   Concentrated Loads (lb)
   Vert: 17=-22(B) 16=-22(B) 8=-39(B) 32=-27(B) 33=-28(B) 34=-28(B) 35=-28(B) 36=-28(B) 37=-28(B) 38=-39(B) 40=-39(B) 41=-39(B) 42=-39(B) 43=-39(B) 44=-39(B) 45=-269(B) 46=-75(B) 47=-33(B) 48=-33(B) 49=-33(B) 50=-33(B) 51=-33(B) 52=-22(B) 53=-22(B) 54=-22(B) 55=-22(B) 56=-22(B) 57=49(B)

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	A02T	HIP	1	1	I53118214
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:49:46 2022 Page 1
ID:I4aFSohUB3AZsI1Dxo?QKDyyp17-QpbSp?sGO4zu5GnFnJur_zV0jXzPSNrb2msvCQyxtyJ

1-0-0	2-3-8	6-0-0	10-2-8	14-5-0	20-10-8	27-4-0	33-4-0	34-4-0
1-0-0	2-3-8	3-8-8	4-2-8	4-2-8	6-5-8	6-5-8	6-0-0	1-0-0

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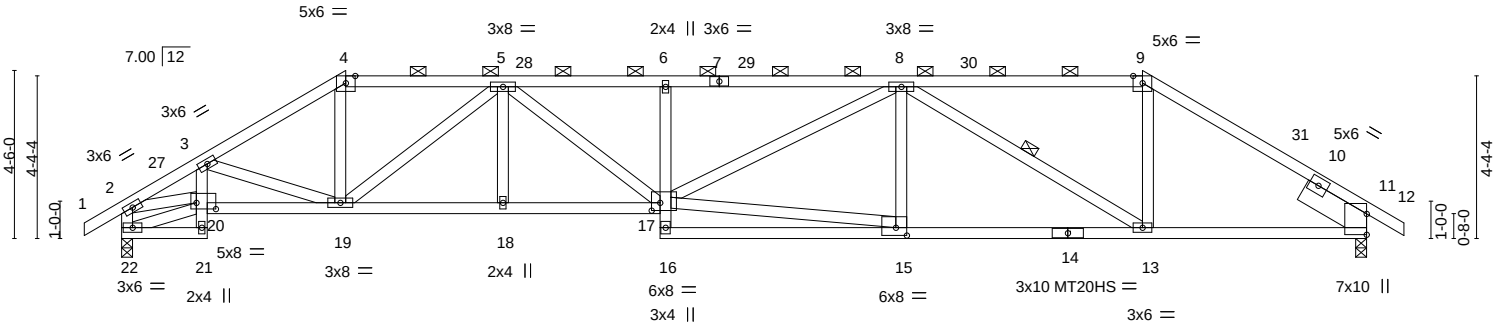

2-3-8	6-0-0	10-2-8	14-5-0	20-10-8	27-4-0	33-4-0
2-3-8	3-8-8	4-2-8	4-2-8	6-5-8	6-5-8	6-0-0

Plate Offsets (X,Y)-- [15:0-3-8,0-2-8], [17:0-2-12,0-2-8], [20:0-6-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.21	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.43	17-18	>918	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.19	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	17	>999	240	Weight: 197 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 1-4,9-12: 2x4 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 3-21,6-16: 2x4 SP No.3, 11-14: 2x4 SP SS
WEBS	2x4 SP No.3 *Except* 2-22: 2x4 SP No.2
SLIDER	Right 2x8 SP DSS 1-11-12

BRACING-

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

REACTIONS. (size) 22=0-3-8, 11=0-3-8
Max Horz 22=-95(LC 10)
Max Uplift 22=-71(LC 12), 11=-70(LC 13)
Max Grav 22=1397(LC 1), 11=1387(LC 1)

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

TOP CHORD	2-22=-1339/100, 2-3=-2176/115, 3-4=-2205/121, 4-5=-1841/123, 5-6=-3195/186, 6-8=-3155/187, 8-9=-1552/124, 9-11=-1915/116
BOT CHORD	19-20=-132/1935, 18-19=-169/2760, 17-18=-169/2760, 6-17=-311/96, 15-16=-1/386, 13-15=-128/2616, 11-13=-19/1574
WEBS	2-20=-76/1757, 4-19=-4/833, 5-19=-1205/129, 5-17=-77/583, 15-17=-128/2243, 8-17=-101/630, 8-13=-1307/153, 9-13=0/691

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-1-12, Interior(1) 2-1-12 to 6-0-0, Exterior(2) 6-0-0 to 10-8-9, Interior(1) 10-8-9 to 27-4-0, Exterior(2) 27-4-0 to 32-0-9, Interior(1) 32-0-9 to 34-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 22 and 70 lb uplift at joint 11.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

July 16,2022

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Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	A03T	HIP	1	1	I53118215
					Job Reference (optional)

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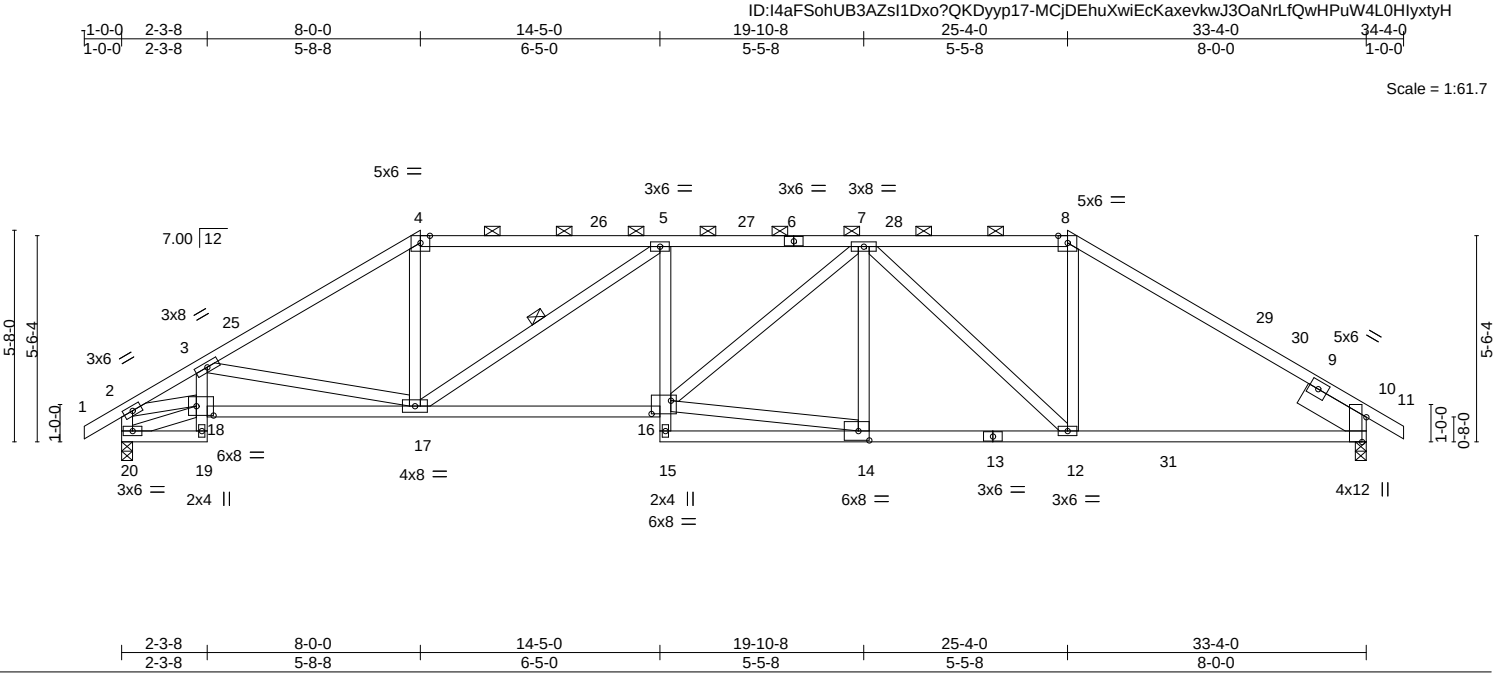

Plate Offsets (X,Y)-- [10:0-7-15,Edge], [14:0-3-8,0-3-0], [16:0-6-4,0-4-4], [18:0-5-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.16	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.32	16-17	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.18	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.12	12-14	>999	240	Weight: 198 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP SS *Except*
	4-6,6-8: 2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except*
	3-19,5-15: 2x4 SP No.3, 10-13: 2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Right 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-0 max.): 4-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 5-17

REACTIONS. (size) 20=0-3-8, 10=0-3-8
Max Horz 20=-118(LC 10)
Max Uplift 20=-69(LC 12), 10=-67(LC 13)
Max Grav 20=1397(LC 1), 10=1387(LC 1)

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

TOP CHORD	2-20=-1332/90, 2-3=-2207/127, 3-4=-2118/118, 4-5=-1763/132, 5-7=-2466/167, 7-8=-1520/141, 8-10=-1892/122
BOT CHORD	17-18=-179/2021, 16-17=-100/2500, 12-14=-50/2063, 10-12=-4/1534
WEBS	2-18=-104/1815, 3-17=-363/152, 4-17=0/662, 5-17=-962/135, 14-16=-37/1916, 7-16=-83/541, 7-12=-835/134, 8-12=0/626

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-1-12, Interior(1) 2-1-12 to 8-0-0, Exterior(2) 8-0-0 to 12-8-9, Interior(1) 12-8-9 to 25-4-0, Exterior(2) 25-4-0 to 30-0-9, Interior(1) 30-0-9 to 34-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 20 and 67 lb uplift at joint 10.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

July 16,2022

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	A04T	HIP	1	1	I53118216
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:49:49 2022 Page 1
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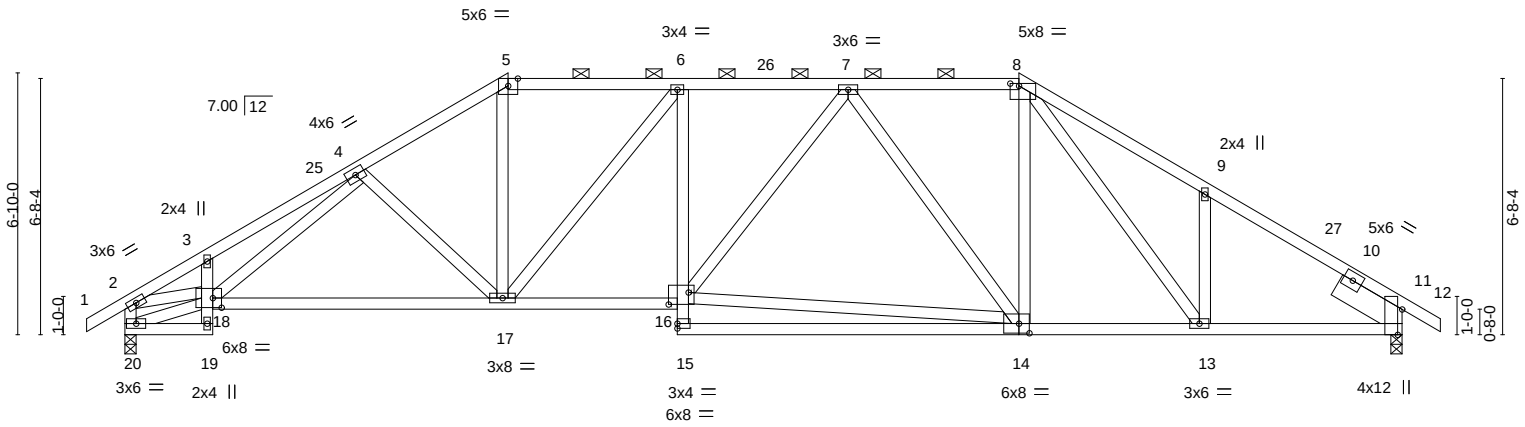
1-0-0	2-3-8	6-1-12	10-0-0	14-5-0	18-10-8	23-4-0	28-2-4	33-4-0	34-4-0
1-0-0	2-3-8	3-10-4	3-10-4	4-5-0	4-5-8	4-5-8	4-10-4	5-1-12	1-0-0

Scale = 1:60.1



2-3-8	10-0-0	14-5-0	23-4-0	28-2-4	33-4-0
2-3-8	7-8-8	4-5-0	8-11-0	4-10-4	5-1-12

Plate Offsets (X,Y)-- [8:0-2-12,0-0-12], [11:0-7-15,Edge], [14:0-3-4,0-3-0], [16:0-6-4,0-3-12], [18:0-2-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.19	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.43	14-15	>919	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.14	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.08	16-17	>999	240	Weight: 224 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 3-19,6-15: 2x4 SP No.3, 11-14: 2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Right 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-1-7 max.): 5-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=0-3-8, 11=0-3-8
Max Horz 20=-141(LC 10)
Max Uplift 20=-66(LC 12), 11=-65(LC 13)
Max Grav 20=1397(LC 1), 11=1387(LC 1)

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

TOP CHORD	2-20=-1350/88, 2-3=-2186/109, 3-4=-2298/171, 4-5=-1923/132, 5-6=-1603/135, 6-7=-1930/157, 7-8=-1469/137, 8-9=-1799/201, 9-11=-1864/107
BOT CHORD	17-18=-99/1810, 16-17=-21/1947, 14-15=0/273, 13-14=0/1468, 11-13=-29/1523
WEBS	2-18=-71/1762, 4-18=-49/280, 4-17=-293/124, 5-17=0/699, 6-17=-612/109, 14-16=-47/1549, 7-16=-49/282, 7-14=-624/139, 8-14=-9/570

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-14, Interior(1) 2-0-14 to 10-0-0, Exterior(2) 10-0-0 to 14-6-12, Interior(1) 14-6-12 to 23-4-0, Exterior(2) 23-4-0 to 28-2-4, Interior(1) 28-2-4 to 34-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 20 and 65 lb uplift at joint 11.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

July 16,2022

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	A05T	HIP	1	1	I53118217 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:49:51 2022 Page 1
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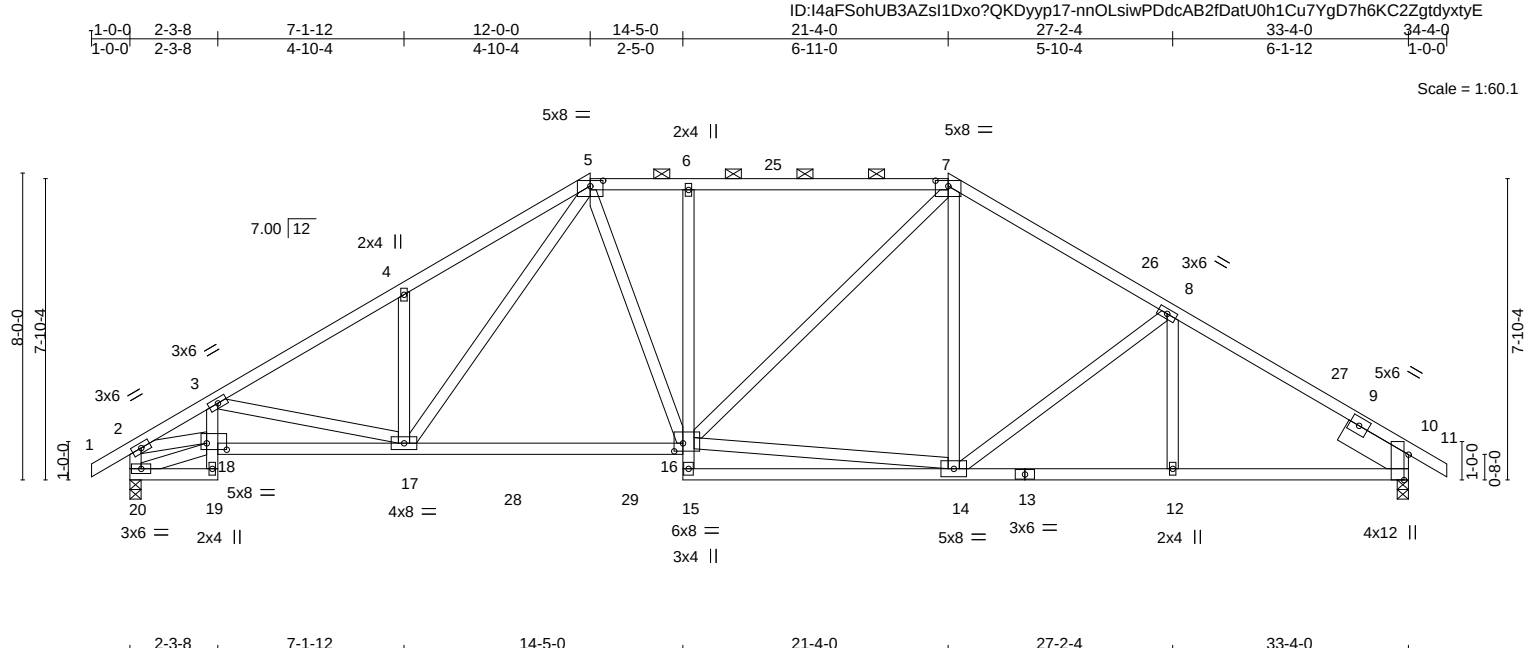

Plate Offsets (X,Y)-- [5:0-4-0,0-1-11], [7:0-4-0,0-1-11], [10:0-7-15,Edge], [16:0-2-12,0-2-8], [18:0-6-4,0-2-0]

LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0.16 16-17 >999 360	MT20	244/190
TCDL 10.0		Lumber DOL 1.15	BC 0.90	Vert(CT) -0.33 16-17 >999 240		
BCLL 0.0	*	Rep Stress Incr YES	WB 0.74	Horz(CT) 0.14 10 n/a n/a		
BCDL 10.0		Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.07 16-17 >999 240	Weight: 221 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.1 *Except* 5-7: 2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 3-19,6-15: 2x4 SP No.3, 10-13: 2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Right 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-8 max.): 5-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15.

REACTIONS. (size) 20=0-3-8, 10=0-3-8
Max Horz 20=-164(LC 10)
Max Uplift 20=-63(LC 12), 10=-61(LC 13)
Max Grav 20=1397(LC 1), 10=1387(LC 1)

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

TOP CHORD	2-20=-1334/94, 2-3=-2184/128, 3-4=-2145/104, 4-5=-2140/200, 5-6=-1596/158, 6-7=-1594/161, 7-8=-1657/142, 8-10=-1892/103
BOT CHORD	17-18=-193/1964, 16-17=-3/1446, 6-16=-394/122, 12-14=-18/1544, 10-12=-18/1544
WEBS	2-18=-93/1777, 4-17=-310/155, 14-16=0/1261, 7-16=-101/426, 7-14=0/296, 8-14=-276/123, 5-17=-119/690, 5-16=-90/525

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-1-12, Interior(1) 2-1-12 to 12-0-0, Exterior(2) 12-0-0 to 16-8-9, Interior(1) 16-8-9 to 21-4-0, Exterior(2) 21-4-0 to 26-0-9, Interior(1) 26-0-9 to 34-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 20 and 61 lb uplift at joint 10.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

July 16,2022

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

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	A06	HIP	1	1	I53118218
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.530 s May 26 2022 MiTek Industries, Inc. Fri Jul 15 14:35:15 2022 Page 1

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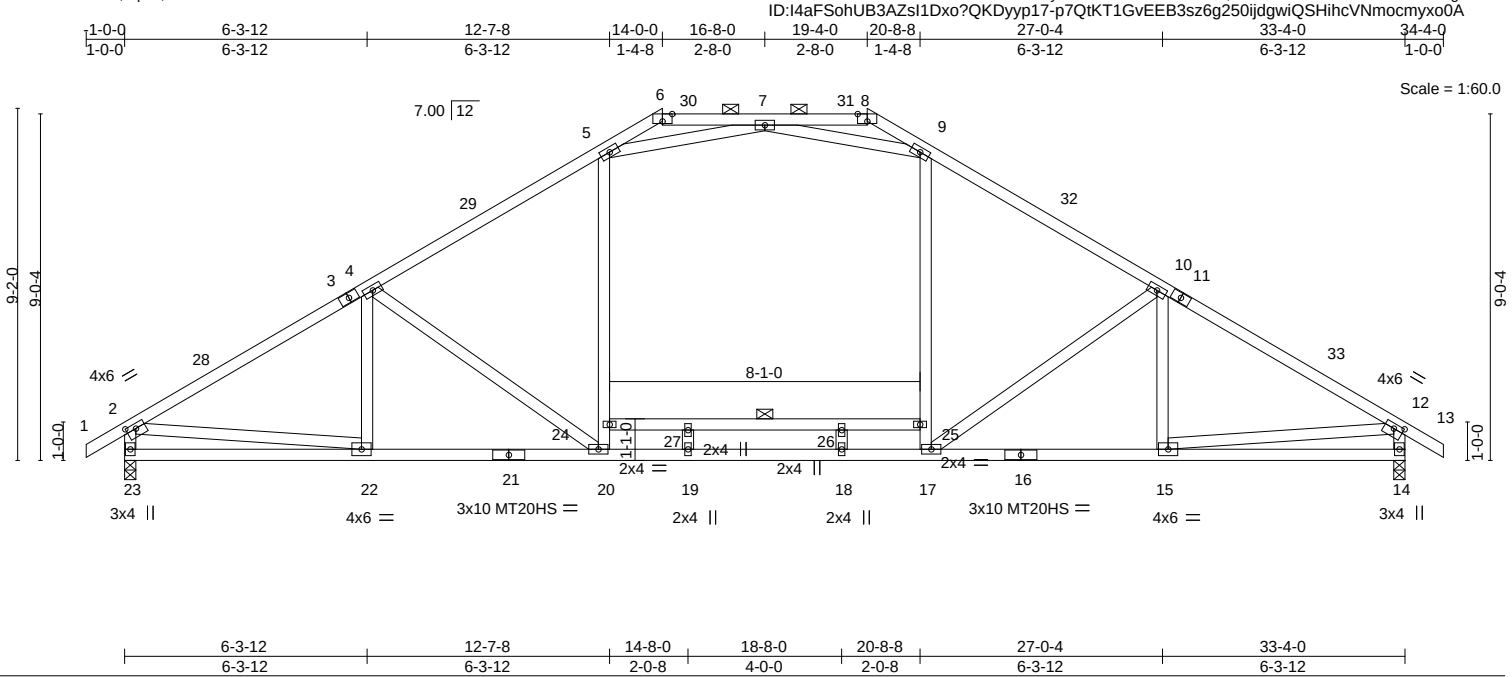

Plate Offsets (X,Y)-- [2:0-3-0,0-1-8], [6:0-3-0,Edge], [8:0-3-0,Edge], [12:0-3-0,0-1-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.53	15-17	>747	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.65	15-17	>610	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.05	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.35	20-22	>999	240	Weight: 211 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except* 1-3,11-13: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 16-21: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except* 24-25: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 24-25

REACTIONS. (size) 23=0-3-8, 14=0-3-8
Max Horz 23=193(LC 11)
Max Uplift 23=-59(LC 12), 14=-59(LC 13)
Max Grav 23=1390(LC 1), 14=1390(LC 1)

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

TOP CHORD 2-23=-1327/112, 2-28=-1909/68, 3-28=-1741/89, 3-4=-1723/92, 4-29=-1633/114, 5-29=-1533/141, 5-6=-309/379, 6-30=-319/355, 7-30=-321/354, 7-31=-321/353, 8-31=-319/354, 8-9=-309/378, 9-32=-1533/141, 10-32=-1633/114, 10-11=-1723/92, 11-33=-1741/89, 12-33=-1909/68, 12-14=-1327/112
BOT CHORD 22-23=-138/354, 21-22=-99/1675, 20-21=-99/1675, 19-20=0/1335, 18-19=0/1335, 17-18=0/1335, 16-17=-4/1573, 15-16=-4/1573
WEBS 2-22=0/1337, 12-15=0/1337, 20-24=0/530, 5-24=0/621, 17-25=0/530, 9-25=0/621, 5-7=-1613/296, 7-9=-1612/296, 4-20=-475/176, 10-17=-475/176

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-4-0, Interior(1) 2-4-0 to 14-0-0, Exterior(2) 14-0-0 to 18-8-9, Interior(1) 18-8-9 to 19-4-0 , Exterior(2) 19-4-0 to 24-0-9, Interior(1) 24-0-9 to 34-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 3x6 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 23 and 59 lb uplift at joint 14.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) N/A
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

July 16,2022

Continued on page 2

LOAD CASE(S)

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

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-60, 2-6=-60, 6-8=-60, 8-12=-60, 12-13=-60, 14-23=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-50, 2-6=-50, 6-8=-50, 8-12=-50, 12-13=-50, 14-23=-20, 24-25=-30
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-20, 2-6=-20, 6-8=-20, 8-12=-20, 12-13=-20, 14-23=-40, 24-25=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=32, 2-28=17, 6-28=12, 6-31=20, 8-31=15, 8-32=17, 12-32=12, 12-13=8, 14-23=-12
   Horz: 2-23=13, 1-2=-44, 2-28=-29, 6-28=-24, 6-7=32, 7-31=-32, 8-31=-27, 8-32=29, 12-32=24, 12-13=20, 12-14=25
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=8, 2-29=12, 6-29=17, 6-30=15, 8-30=20, 8-33=12, 12-33=17, 12-13=32, 14-23=-12
   Horz: 2-23=-25, 1-2=-20, 2-29=-24, 6-29=-29, 6-30=27, 7-30=32, 7-8=-32, 8-33=24, 12-33=29, 12-13=44, 12-14=-13
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-0, 2-6=-44, 6-8=-29, 8-12=-44, 12-13=-40, 14-23=-20
   Horz: 2-23=-16, 1-2=-20, 2-6=24, 6-7=-9, 7-8=9, 8-12=-24, 12-13=-20, 12-14=-22
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-40, 2-6=-44, 6-8=-29, 8-12=-44, 12-13=-0, 14-23=-20
   Horz: 2-23=22, 1-2=20, 2-6=24, 6-7=-9, 7-8=9, 8-12=-24, 12-13=20, 12-14=16
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-4, 2-6=-14, 6-8=19, 8-12=5, 12-13=1, 14-23=-12
   Horz: 2-23=13, 1-2=-8, 2-6=2, 6-7=31, 7-8=-31, 8-12=17, 12-13=13, 12-14=16
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=1, 2-6=5, 6-8=19, 8-12=-14, 12-13=-4, 14-23=-12
   Horz: 2-23=-16, 1-2=-13, 2-6=-17, 6-7=31, 7-8=-31, 8-12=-2, 12-13=8, 12-14=-13
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-27, 2-6=-31, 6-8=2, 8-12=-11, 12-13=-7, 14-23=-20
    Horz: 2-23=21, 1-2=7, 2-6=11, 6-7=22, 7-8=-22, 8-12=9, 12-13=13, 12-14=7
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-6=-11, 6-8=2, 8-12=-31, 12-13=-27, 14-23=-20
    Horz: 2-23=-7, 1-2=-13, 2-6=-9, 6-7=22, 7-8=-22, 8-12=-11, 12-13=-7, 12-14=-21
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=14, 2-6=19, 6-7=19, 7-8=5, 8-12=5, 12-13=1, 14-23=-12
    Horz: 2-23=11, 1-2=-26, 2-6=-31, 6-7=31, 7-8=-17, 8-12=17, 12-13=13, 12-14=15
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=1, 2-6=5, 6-7=5, 7-8=19, 8-12=19, 12-13=14, 14-23=-12
    Horz: 2-23=-15, 1-2=-13, 2-6=-17, 6-7=17, 7-8=-31, 8-12=31, 12-13=26, 12-14=-11
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=5, 2-6=9, 6-7=9, 7-8=2, 8-12=2, 12-13=-3, 14-23=-12
    Horz: 2-23=5, 1-2=-17, 2-6=-21, 6-7=21, 7-8=-14, 8-12=14, 12-13=9, 12-14=12
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-3, 2-6=2, 6-7=2, 7-8=9, 8-12=9, 12-13=5, 14-23=-12
    Horz: 2-23=-12, 1-2=-9, 2-6=-14, 6-7=14, 7-8=-21, 8-12=21, 12-13=17, 12-14=-5
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=6, 2-6=2, 6-7=2, 7-8=-11, 8-12=-11, 12-13=-7, 14-23=-20
    Horz: 2-23=19, 1-2=-26, 2-6=-22, 6-7=22, 7-8=-9, 8-12=9, 12-13=13, 12-14=6
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-6=-11, 6-7=-11, 7-8=2, 8-12=2, 12-13=6, 14-23=-20
    Horz: 2-23=-6, 1-2=-13, 2-6=-9, 6-7=9, 7-8=-22, 8-12=22, 12-13=26, 12-14=-19
18) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
    Uniform Loads (plf)
    Vert: 1-2=-20, 2-6=-20, 6-8=-20, 8-12=-20, 12-13=-20, 14-23=-20, 24-25=-40
19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-55, 2-6=-58, 6-8=-34, 8-12=-44, 12-13=-40, 14-23=-20, 24-25=-30
    Horz: 2-23=16, 1-2=5, 2-6=8, 6-7=16, 7-8=-16, 8-12=6, 12-13=10, 12-14=6
20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=-40, 2-6=-44, 6-8=-34, 8-12=-58, 12-13=-55, 14-23=-20, 24-25=-30
Horz: 2-23=-6, 1-2=-10, 2-6=-6, 6-7=16, 7-8=-16, 8-12=-8, 12-13=-5, 12-14=-16

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-6=-34, 6-7=-34, 7-8=-44, 8-12=-44, 12-13=-40, 14-23=-20, 24-25=-30
Horz: 2-23=15, 1-2=-20, 2-6=-16, 6-7=16, 7-8=-6, 8-12=6, 12-13=10, 12-14=5

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, 8-12=-34, 12-13=-30, 14-23=-20, 24-25=-30
Horz: 2-23=-5, 1-2=-10, 2-6=-6, 6-7=6, 7-8=-16, 8-12=16, 12-13=20, 12-14=-15

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-6=-60, 6-8=-60, 8-12=-20, 12-13=-20, 14-23=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-6=-20, 6-8=-60, 8-12=-60, 12-13=-60, 14-23=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-6=-50, 6-8=-50, 8-12=-20, 12-13=-20, 14-23=-20, 24-25=-30

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-6=-20, 6-8=-50, 8-12=-50, 12-13=-50, 14-23=-20, 24-25=-30

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	A07	HIP	2	1	I53118219
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.530 s May 26 2022 MiTek Industries, Inc. Fri Jul 15 14:35:29 2022 Page 1

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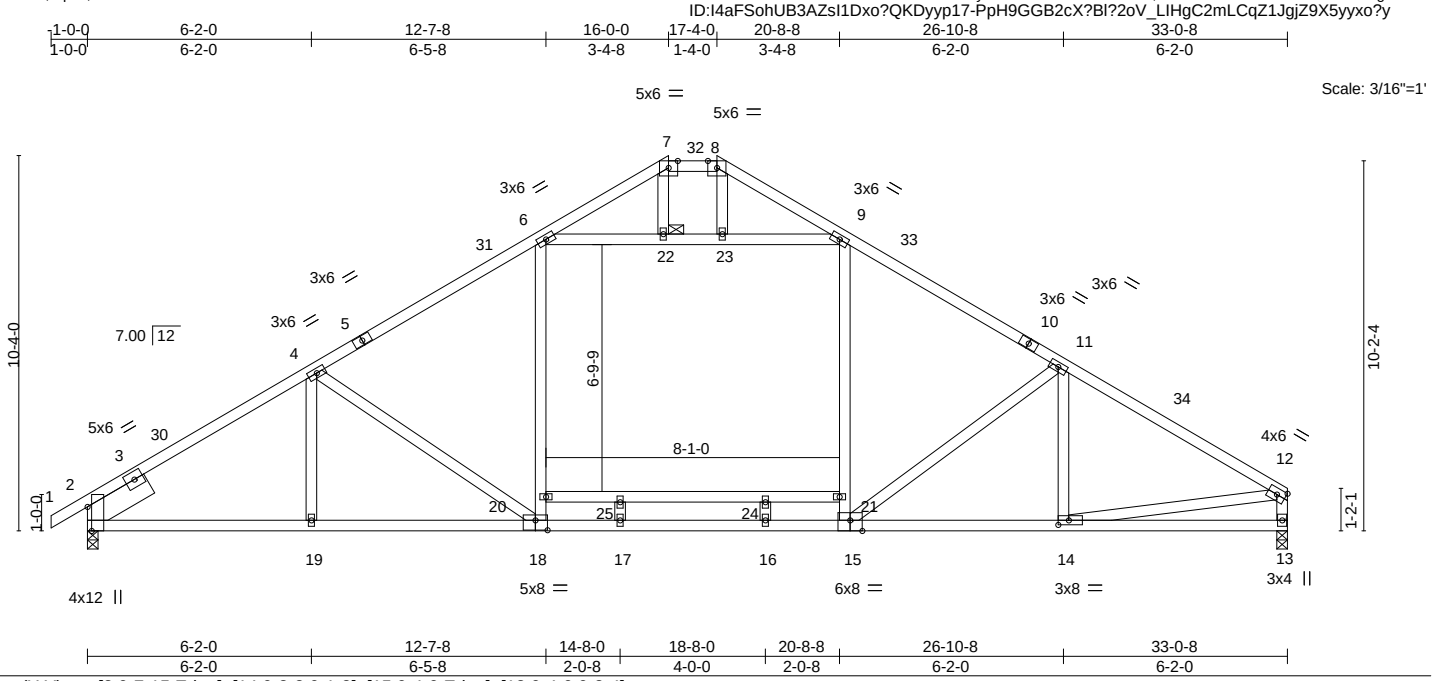

Plate Offsets (X,Y)-- [2:0-7-15,Edge], [14:0-3-8,0-1-8], [15:0-4-0,Edge], [18:0-4-0,0-3-4]

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	1.00	Vert(LL)	-0.72	18-19	>549	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.87	18-19	>452	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.05	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.47	18-19	>837	240	Weight: 211 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 1-5: 2x4 SP SS, 10-12: 2x4 SP No.1
BOT CHORD	2x4 SP SS
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 22

REACTIONS. (size) 13=0-3-8, 2=0-3-8
Max Horz 2=208(LC 11)
Max Uplift 13=-36(LC 13), 2=-53(LC 12)
Max Grav 13=1315(LC 1), 2=1377(LC 1)

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

TOP CHORD	2-3=-301/0, 3-30=-1887/73, 4-30=-1858/96, 4-5=-1603/85, 5-31=-1512/100, 6-31=-1448/119, 6-7=-335/80, 8-9=-342/79, 9-33=-1440/123, 10-33=-1512/106, 10-11=-1604/90, 11-34=-1719/83, 12-34=-1820/61, 12-13=-1248/77
BOT CHORD	2-19=-128/1544, 18-19=-128/1544, 17-18=0/1236, 16-17=0/1236, 15-16=0/1236, 14-15=-20/1499
WEBS	4-18=-446/187, 11-15=-417/182, 18-20=0/406, 6-20=0/426, 15-21=0/409, 9-21=0/422, 6-22=-1077/103, 22-23=-1078/103, 9-23=-1076/102, 12-14=-10/1341

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-4-0, Interior(1) 2-4-0 to 16-0-0, Exterior(2) 16-0-0 to 22-0-9, Interior(1) 22-0-9 to 32-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 13 and 53 lb uplift at joint 2.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) N/A
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)

July 16,2022

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

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-60, 7-8=-60, 8-12=-60, 13-26=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-50, 7-8=-50, 8-12=-50, 13-26=-20
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-7=-20, 7-8=-20, 8-12=-20, 13-26=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=32, 2-30=17, 7-30=12, 7-8=20, 8-33=17, 12-33=12, 13-26=-12
   Horz: 1-2=-44, 2-30=-29, 7-30=-24, 8-33=29, 12-33=24, 12-13=25
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=8, 2-31=12, 7-31=17, 7-8=20, 8-34=12, 12-34=17, 13-26=-12
   Horz: 1-2=-20, 2-31=-24, 7-31=-29, 8-34=24, 12-34=29, 12-13=-13
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-0, 2-7=-44, 7-8=-29, 8-12=-44, 13-26=-20
   Horz: 1-2=-20, 2-7=24, 8-12=-24, 12-13=-22
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-40, 2-7=-44, 7-8=-29, 8-12=-44, 13-26=-20
   Horz: 1-2=20, 2-7=24, 8-12=-24, 12-13=16
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-4, 2-7=-14, 7-8=19, 8-12=5, 13-26=-12
   Horz: 1-2=-8, 2-7=2, 8-12=17, 12-13=16
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=1, 2-7=5, 7-8=19, 8-12=-14, 13-26=-12
   Horz: 1-2=-13, 2-7=-17, 8-12=-2, 12-13=-13
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-27, 2-7=-31, 7-8=2, 8-12=-11, 13-26=-20
    Horz: 1-2=7, 2-7=11, 8-12=9, 12-13=7
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-7=-11, 7-8=2, 8-12=-31, 13-26=-20
    Horz: 1-2=-13, 2-7=-9, 8-12=-11, 12-13=-21
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=14, 2-7=19, 7-32=19, 8-32=5, 8-12=5, 13-26=-12
    Horz: 1-2=-26, 2-7=-31, 8-12=17, 12-13=15
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=1, 2-7=5, 7-32=5, 8-32=19, 8-12=19, 13-26=-12
    Horz: 1-2=-13, 2-7=-17, 8-12=31, 12-13=-11
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=5, 2-7=9, 7-32=9, 8-32=2, 8-12=2, 13-26=-12
    Horz: 1-2=-17, 2-7=-21, 8-12=14, 12-13=12
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-3, 2-7=2, 7-32=2, 8-32=9, 8-12=9, 13-26=-12
    Horz: 1-2=-9, 2-7=-14, 8-12=21, 12-13=-5
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=6, 2-7=2, 7-32=2, 8-32=-11, 8-12=-11, 13-26=-20
    Horz: 1-2=-26, 2-7=-22, 8-12=9, 12-13=6
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-7=-11, 7-32=-11, 8-32=2, 8-12=2, 13-26=-20
    Horz: 1-2=-13, 2-7=-9, 8-12=22, 12-13=-19
18) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
    Uniform Loads (plf)
    Vert: 1-7=-20, 7-8=-20, 8-12=-20, 13-26=-20
19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-55, 2-7=-58, 7-8=-34, 8-12=-44, 13-26=-20
    Horz: 1-2=5, 2-7=8, 8-12=6, 12-13=6
20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

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LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=-40, 2-7=-44, 7-8=-34, 8-12=-58, 13-26=-20
Horz: 1-2=-10, 2-7=-6, 8-12=-8, 12-13=-16

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-7=-34, 7-32=-34, 8-32=-44, 8-12=-44, 13-26=-20
Horz: 1-2=-20, 2-7=-16, 8-12=6, 12-13=5

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, 2-7=-44, 7-32=-44, 8-32=-34, 8-12=-34, 13-26=-20
Horz: 1-2=-10, 2-7=-6, 8-12=16, 12-13=-15

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 7-8=-60, 8-12=-20, 13-26=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-20, 7-8=-60, 8-12=-60, 13-26=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-50, 7-8=-50, 8-12=-20, 13-26=-20

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-20, 7-8=-50, 8-12=-50, 13-26=-20

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	A08	COMMON	1	1	I53118220
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.530 s May 26 2022 MiTek Industries, Inc. Fri Jul 15 14:35:40 2022 Page 1
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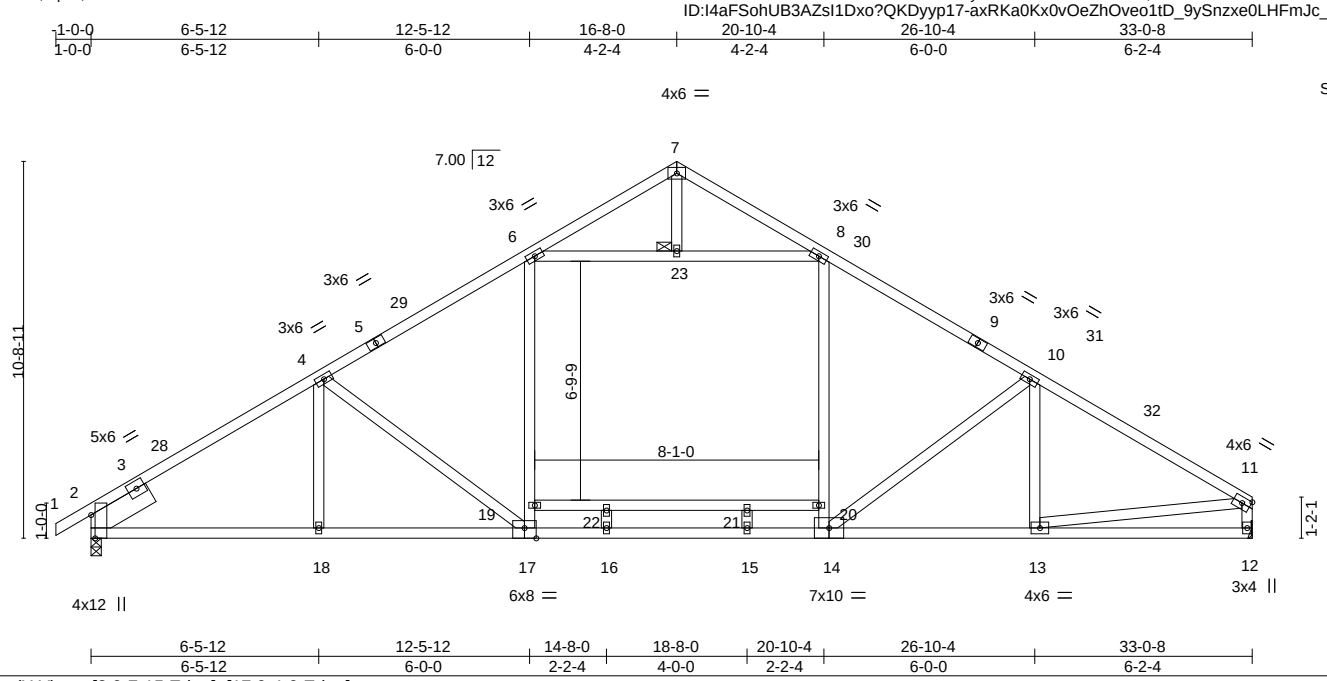

Plate Offsets (X,Y)-- [2:0-7-15,Edge], [17:0-4-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.72	17-18	>551	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.86	17-18	>459	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.05	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.47	17-18	>841	240	Weight: 210 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 1-5: 2x4 SP SS
BOT CHORD	2x4 SP SS
WEBS	2x4 SP No.3 *Except* 19-20,6-8: 2x4 SP No.2
SLIDER	Left 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-1-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 23

REACTIONS. (size) 12=Mechanical, 2=0-3-8
Max Horz 2=217(LC 11)
Max Grav 12=1328(LC 20), 2=1384(LC 19)

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

TOP CHORD	2-3=-367/0, 3-28=-1918/44, 4-28=-1893/69, 4-5=-1659/80, 5-29=-1561/110, 6-29=-1523/113, 6-7=-311/70, 7-8=-316/70, 8-30=-1529/115, 9-30=-1547/112, 9-31=-1670/82, 10-31=-1681/78, 10-32=-1720/65, 11-32=-1850/44, 11-12=-1265/63
BOT CHORD	2-18=-14/1708, 17-18=-14/1708, 16-17=0/1355, 15-16=0/1355, 14-15=0/1355, 13-14=-6/1511
WEBS	4-17=-451/151, 17-19=0/502, 6-19=0/585, 14-20=0/507, 8-20=0/580, 10-14=-418/149, 11-13=0/1370, 6-23=-1191/108, 8-23=-1191/108

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-3-10, Interior(1) 2-3-10 to 16-8-0, Exterior(2) 16-8-0 to 21-4-1, Interior(1) 21-4-1 to 32-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) N/A

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 7-11=-60, 12-24=-20

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

LOAD CASE(S)

2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-50, 7-11=-50, 12-24=-20, 19-20=-30
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-20, 7-11=-20, 12-24=-40, 19-20=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=32, 2-28=17, 7-28=12, 7-30=17, 11-30=12, 12-24=-12
Horz: 1-2=-44, 2-28=-29, 7-28=-24, 7-30=29, 11-30=24, 11-12=25
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-29=12, 7-29=17, 7-32=12, 11-32=17, 12-24=-12
Horz: 1-2=-20, 2-29=-24, 7-29=-29, 7-32=24, 11-32=29, 11-12=-13
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-0, 2-7=-44, 7-11=-44, 12-24=-20
Horz: 1-2=-20, 2-7=24, 7-11=-24, 11-12=-22
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-7=-44, 7-11=-44, 12-24=-20
Horz: 1-2=20, 2-7=24, 7-11=-24, 11-12=16
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-7=-14, 7-11=5, 12-24=-12
Horz: 1-2=-8, 2-7=2, 7-11=17, 11-12=16
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=1, 2-7=5, 7-11=-14, 12-24=-12
Horz: 1-2=-13, 2-7=-17, 7-11=-2, 11-12=-13
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-7=-31, 7-11=-11, 12-24=-20
Horz: 1-2=7, 2-7=11, 7-11=9, 11-12=7
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-7=-11, 7-11=-31, 12-24=-20
Horz: 1-2=-13, 2-7=-9, 7-11=-11, 11-12=-21
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-4=19, 4-7=9, 7-11=2, 12-24=-12
Horz: 1-2=-26, 2-4=-31, 4-7=-21, 7-11=14, 11-12=12
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-7=2, 7-31=9, 11-31=19, 12-24=-12
Horz: 1-2=-9, 2-7=-14, 7-31=21, 11-31=31, 11-12=-11
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-7=9, 7-11=2, 12-24=-12
Horz: 1-2=-17, 2-7=-21, 7-11=14, 11-12=12
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-7=2, 7-11=9, 12-24=-12
Horz: 1-2=-9, 2-7=-14, 7-11=21, 11-12=-5
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-4=2, 4-7=-7, 7-11=-15, 12-24=-20
Horz: 1-2=-26, 2-4=-22, 4-7=-13, 7-11=5, 11-12=3
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-11, 2-7=-15, 7-31=-7, 11-31=2, 12-24=-20
Horz: 1-2=-9, 2-7=-5, 7-31=13, 11-31=22, 11-12=-19
18) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-7=-20, 7-11=-20, 12-24=-20, 19-20=-40
19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-55, 2-7=-58, 7-11=-44, 12-24=-20, 19-20=-30
Horz: 1-2=5, 2-7=8, 7-11=6, 11-12=6
20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-7=-44, 7-11=-58, 12-24=-20, 19-20=-30
Horz: 1-2=-10, 2-7=-6, 7-11=-8, 11-12=-16

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LOAD CASE(S)

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, 2-4=-34, 4-7=-41, 7-11=-46, 12-24=-20, 19-20=-30
Horz: 1-2=-20, 2-4=-16, 4-7=-9, 7-11=4, 11-12=2

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-43, 2-7=-46, 7-31=-41, 11-31=-34, 12-24=-20, 19-20=-30
Horz: 1-2=-7, 2-7=-4, 7-31=9, 11-31=16, 11-12=-15

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 7-11=-20, 12-24=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-20, 7-11=-60, 12-24=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-50, 7-11=-20, 12-24=-20, 19-20=-30

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-20, 7-11=-50, 12-24=-20, 19-20=-30

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	A10	HIP	1	1	I53118221
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.530 s May 26 2022 MiTek Industries, Inc. Fri Jul 15 14:35:51 2022 Page 1

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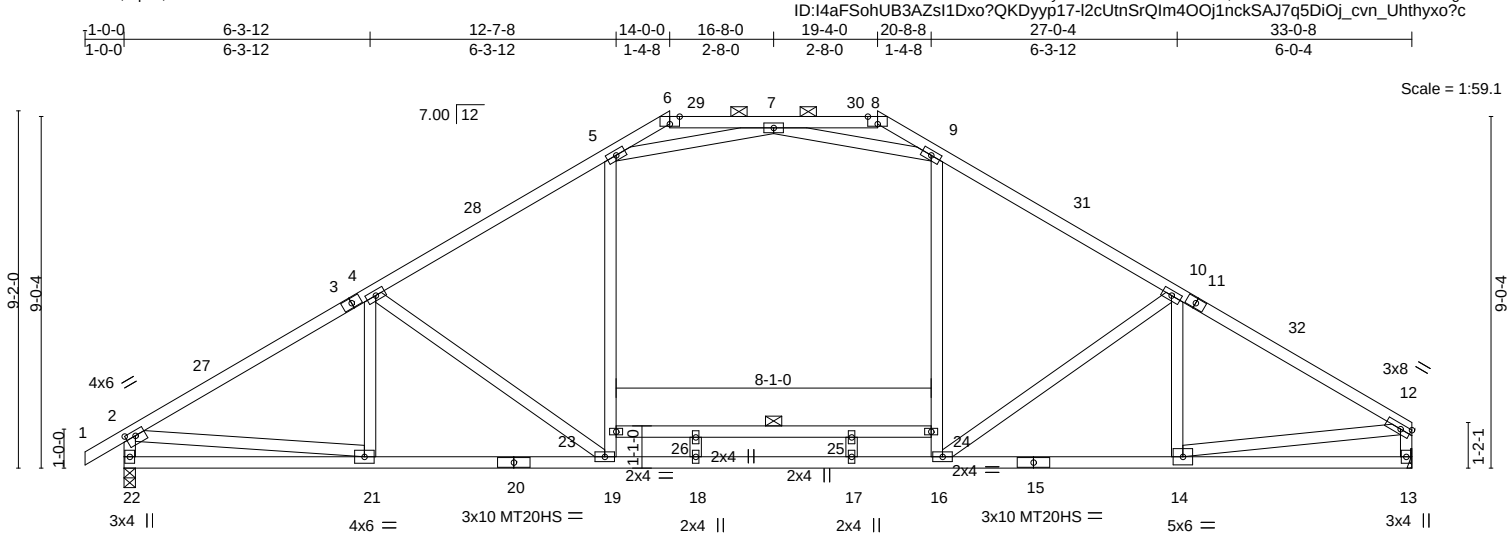


6-3-12 12-7-8 14-8-0 18-8-0 20-8-8 27-0-4 33-0-8
6-3-12 6-3-12 2-0-8 4-0-0 2-0-8 6-3-12 6-0-4

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

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.54	19-21	>726	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.68	19-21	>579	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.05	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.36	19-21	>999	240	Weight: 208 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except* 1-3,11-12: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 15-20: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except* 23-24: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 23-24

REACTIONS. (size) 22=0-3-8, 13=Mechanical
Max Horz 22=191(LC 9)
Max Uplift 22=-59(LC 12), 13=-41(LC 13)
Max Grav 22=1380(LC 1), 13=1309(LC 1)

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

TOP CHORD 2-22=-1318/112, 2-27=-1894/69, 3-27=-1727/90, 3-4=-1708/93, 4-28=-1611/115, 5-28=-1508/141, 5-6=-332/362, 6-29=-343/338, 7-29=-345/337, 7-30=-303/363, 8-30=-301/363, 8-9=-296/385, 9-31=-1508/143, 10-31=-1607/113, 10-11=-1644/90, 11-32=-1661/87, 12-32=-1821/69, 12-13=-1248/79
BOT CHORD 21-22=-145/343, 20-21=-109/1656, 19-20=-109/1656, 18-19=0/1309, 17-18=0/1309, 16-17=0/1309, 15-16=-29/1508, 14-15=-29/1508
WEBS 2-21=0/1330, 12-14=-17/1382, 19-23=0/523, 5-23=0/617, 16-24=0/513, 9-24=0/601, 5-7=-1557/293, 7-9=-1611/295, 4-19=-482/176, 10-16=-427/175

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-4-0, Interior(1) 2-4-0 to 14-0-0, Exterior(2) 14-0-0 to 18-8-9, Interior(1) 18-8-9 to 19-4-0 , Exterior(2) 19-4-0 to 24-0-9, Interior(1) 24-0-9 to 32-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 3x6 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.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 22 and 41 lb uplift at joint 13.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) N/A
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

July 16,2022

Continued on page 2

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

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-60, 2-6=-60, 6-8=-60, 8-12=-60, 13-22=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-50, 2-6=-50, 6-8=-50, 8-12=-50, 13-22=-20, 23-24=-30
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-20, 2-6=-20, 6-8=-20, 8-12=-20, 13-22=-40, 23-24=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=32, 2-27=17, 6-27=12, 6-30=20, 8-30=15, 8-31=17, 12-31=12, 13-22=-12
   Horz: 2-22=13, 1-2=-44, 2-27=-29, 6-27=-24, 6-7=32, 7-30=-32, 8-30=-27, 8-31=29, 12-31=24, 12-13=25
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=8, 2-28=12, 6-28=17, 6-29=15, 8-29=20, 8-32=12, 12-32=17, 13-22=-12
   Horz: 2-22=-25, 1-2=-20, 2-28=-24, 6-28=-29, 6-29=27, 7-29=32, 7-8=-32, 8-32=24, 12-32=29, 12-13=-13
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-0, 2-6=-44, 6-8=-29, 8-12=-44, 13-22=-20
   Horz: 2-22=-16, 1-2=-20, 2-6=24, 6-7=-9, 7-8=9, 8-12=-24, 12-13=-22
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-40, 2-6=-44, 6-8=-29, 8-12=-44, 13-22=-20
   Horz: 2-22=22, 1-2=20, 2-6=24, 6-7=-9, 7-8=9, 8-12=-24, 12-13=16
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-4, 2-6=-14, 6-8=19, 8-12=5, 13-22=-12
   Horz: 2-22=13, 1-2=-8, 2-6=2, 6-7=31, 7-8=-31, 8-12=17, 12-13=16
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=1, 2-6=5, 6-8=19, 8-12=-14, 13-22=-12
   Horz: 2-22=-16, 1-2=-13, 2-6=-17, 6-7=31, 7-8=-31, 8-12=-2, 12-13=-13
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-27, 2-6=-31, 6-8=2, 8-12=-11, 13-22=-20
    Horz: 2-22=21, 1-2=7, 2-6=11, 6-7=22, 7-8=-22, 8-12=9, 12-13=7
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-6=-11, 6-8=2, 8-12=-31, 13-22=-20
    Horz: 2-22=-7, 1-2=-13, 2-6=-9, 6-7=22, 7-8=-22, 8-12=-11, 12-13=-21
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=14, 2-6=19, 6-7=19, 7-8=5, 8-12=5, 13-22=-12
    Horz: 2-22=11, 1-2=-26, 2-6=-31, 6-7=31, 7-8=-17, 8-12=17, 12-13=15
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=1, 2-6=5, 6-7=5, 7-8=19, 8-12=19, 13-22=-12
    Horz: 2-22=-15, 1-2=-13, 2-6=-17, 6-7=17, 7-8=-31, 8-12=31, 12-13=-11
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=5, 2-6=9, 6-7=9, 7-8=2, 8-12=2, 13-22=-12
    Horz: 2-22=5, 1-2=-17, 2-6=-21, 6-7=21, 7-8=-14, 8-12=14, 12-13=12
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-3, 2-6=2, 6-7=2, 7-8=9, 8-12=9, 13-22=-12
    Horz: 2-22=-12, 1-2=-9, 2-6=-14, 6-7=14, 7-8=-21, 8-12=21, 12-13=-5
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=6, 2-6=2, 6-7=2, 7-8=-11, 8-12=-11, 13-22=-20
    Horz: 2-22=19, 1-2=-26, 2-6=-22, 6-7=22, 7-8=-9, 8-12=9, 12-13=6
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-6=-11, 6-7=-11, 7-8=2, 8-12=2, 13-22=-20
    Horz: 2-22=-6, 1-2=-13, 2-6=-9, 6-7=9, 7-8=-22, 8-12=22, 12-13=-19
18) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
    Uniform Loads (plf)
    Vert: 1-2=-20, 2-6=-20, 6-8=-20, 8-12=-20, 13-22=-20, 23-24=-40
19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-55, 2-6=-58, 6-8=-34, 8-12=-44, 13-22=-20, 23-24=-30
    Horz: 2-22=16, 1-2=5, 2-6=8, 6-7=16, 7-8=-16, 8-12=6, 12-13=6
20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=-40, 2-6=-44, 6-8=-34, 8-12=-58, 13-22=-20, 23-24=-30
Horz: 2-22=-6, 1-2=-10, 2-6=-6, 6-7=16, 7-8=-16, 8-12=-8, 12-13=-16

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-6=-34, 6-7=-34, 7-8=-44, 8-12=-44, 13-22=-20, 23-24=-30
Horz: 2-22=15, 1-2=-20, 2-6=-16, 6-7=16, 7-8=-6, 8-12=6, 12-13=5

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, 8-12=-34, 13-22=-20, 23-24=-30
Horz: 2-22=-5, 1-2=-10, 2-6=-6, 6-7=6, 7-8=-16, 8-12=16, 12-13=-15

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-6=-60, 6-8=-60, 8-12=-20, 13-22=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-6=-20, 6-8=-60, 8-12=-60, 13-22=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-6=-50, 6-8=-50, 8-12=-20, 13-22=-20, 23-24=-30

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-6=-20, 6-8=-50, 8-12=-50, 13-22=-20, 23-24=-30

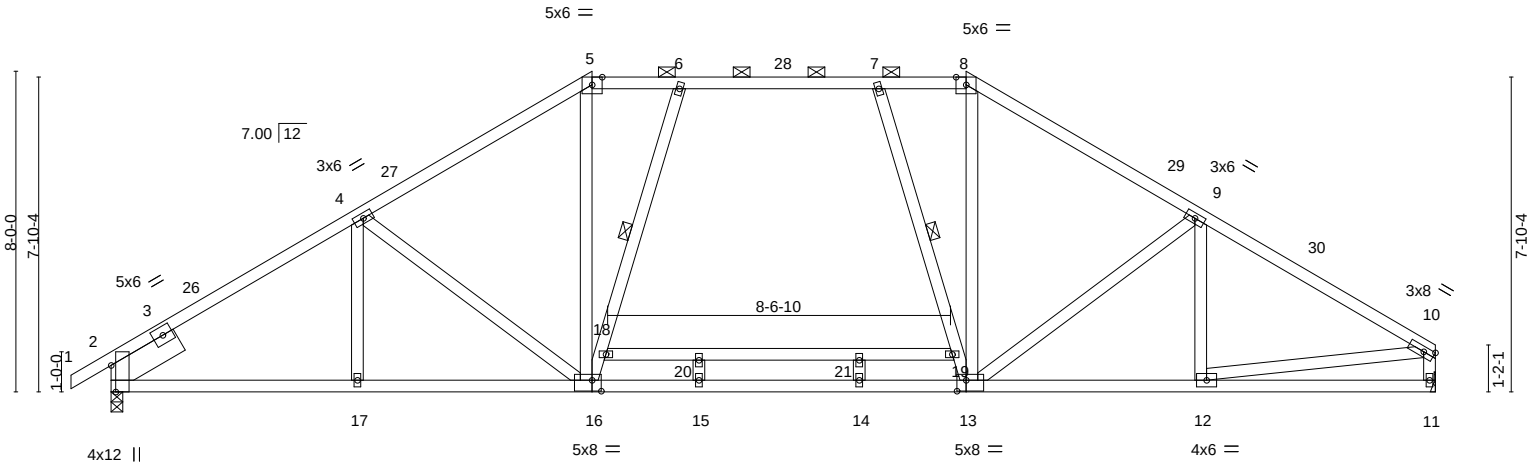
Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	A11	HIP	1	1	I53118222
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.530 s May 26 2022 MiTek Industries, Inc. Fri Jul 15 14:36:00 2022 Page 1

ID:I4aFSohUB3AZsI1Dxo?QKDyyp17-?neumsZUJ3vozmvlp?OZ1C?LCrl5K3TErt9ghfyxo?T

1-0-0	6-1-12	12-0-0	14-4-0	14-8-0	16-8-0	18-8-0	19-0-0	21-4-0	27-2-4	33-0-8
1-0-0	6-1-12	5-10-4	2-4-0	0-4-0	2-0-0	2-0-0	0-4-0	2-4-0	5-10-4	5-10-4

Scale = 1:57.5



6-1-12	12-0-0	14-8-0	18-8-0	21-4-0	27-2-4	33-0-8
6-1-12	5-10-4	2-8-0	4-0-0	2-8-0	5-10-4	5-10-4

Plate Offsets (X,Y)-- [2:0-7-15,Edge], [13:0-2-12,0-3-4], [16:0-2-12,0-3-4]

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	0.98	Vert(LL)	-0.20	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.34	14-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.15	16-17	>999	240	Weight: 213 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	1-5: 2x4 SP No.1
BOT CHORD	2x4 SP No.2 *Except*
	2-16: 2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-2-9 max.): 5-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 6-16, 7-13

REACTIONS. (size) 11=Mechanical, 2=0-3-8
Max Horz 2=162(LC 11)
Max Uplift 11=-44(LC 13), 2=-62(LC 12)
Max Grav 11=1315(LC 1), 2=1377(LC 1)

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

TOP CHORD	2-3=-300/0, 3-26=-1876/81, 4-26=-1847/104, 4-27=-1630/108, 5-27=-1546/140, 5-6=-1344/150, 6-28=-1405/164, 7-28=-1405/164, 7-8=-1319/149, 8-29=-1516/141, 9-29=-1615/110, 9-30=-1665/98, 10-30=-1820/78, 10-11=-1254/83
BOT CHORD	2-17=-95/1532, 16-17=-95/1532, 15-16=-2/1369, 14-15=-2/1369, 13-14=-2/1369, 12-13=-39/1506
WEBS	4-16=-296/133, 5-16=-65/601, 8-13=-66/657, 9-13=-292/125, 16-18=-400/198, 6-18=-399/213, 7-19=-475/201, 13-19=-478/185, 10-12=-17/1379

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-4-0, Interior(1) 2-4-0 to 12-0-0, Exterior(2) 12-0-0 to 16-8-9, Interior(1) 16-8-9 to 21-4-0 , Exterior(2) 21-4-0 to 26-0-9, Interior(1) 26-0-9 to 32-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 11 and 62 lb uplift at joint 2.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) N/A
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

July 16,2022

LOAD CASE(S)

Continued on page 2

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

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-60, 5-8=-60, 8-10=-60, 11-22=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-50, 5-8=-50, 8-10=-50, 11-22=-20
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-20, 5-8=-20, 8-10=-20, 11-22=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=32, 2-26=17, 5-26=12, 5-28=20, 8-28=15, 8-29=17, 10-29=12, 11-22=-12
   Horz: 1-2=-44, 2-26=-29, 5-26=-24, 5-6=32, 7-8=-27, 8-29=29, 10-29=24, 10-11=25
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=8, 2-27=12, 5-27=17, 5-28=15, 8-28=20, 8-30=12, 10-30=17, 11-22=-12
   Horz: 1-2=-20, 2-27=-24, 5-27=-29, 5-6=27, 7-8=-32, 8-30=24, 10-30=29, 10-11=-13
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-0, 2-5=-44, 5-8=-29, 8-10=-44, 11-22=-20
   Horz: 1-2=-20, 2-5=24, 5-6=-9, 7-8=9, 8-10=-24, 10-11=-22
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-40, 2-5=-44, 5-8=-29, 8-10=-44, 11-22=-20
   Horz: 1-2=20, 2-5=24, 5-6=-9, 7-8=9, 8-10=-24, 10-11=16
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-4, 2-5=-14, 5-8=19, 8-10=5, 11-22=-12
   Horz: 1-2=-8, 2-5=2, 5-6=31, 7-8=-31, 8-10=17, 10-11=16
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=1, 2-5=5, 5-8=19, 8-10=-14, 11-22=-12
   Horz: 1-2=-13, 2-5=-17, 5-6=31, 7-8=-31, 8-10=-2, 10-11=-13
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-27, 2-5=-31, 5-8=2, 8-10=-11, 11-22=-20
    Horz: 1-2=7, 2-5=11, 5-6=22, 7-8=-22, 8-10=9, 10-11=7
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-5=-11, 5-8=2, 8-10=-31, 11-22=-20
    Horz: 1-2=-13, 2-5=-9, 5-6=22, 7-8=-22, 8-10=-11, 10-11=-21
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=14, 2-5=19, 5-28=19, 8-28=5, 8-10=5, 11-22=-12
    Horz: 1-2=-26, 2-5=-31, 5-6=31, 7-8=-17, 8-10=17, 10-11=15
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=1, 2-5=5, 5-28=5, 8-28=19, 8-10=19, 11-22=-12
    Horz: 1-2=-13, 2-5=-17, 5-6=17, 7-8=-31, 8-10=31, 10-11=-11
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=5, 2-5=9, 5-28=9, 8-28=2, 8-10=2, 11-22=-12
    Horz: 1-2=-17, 2-5=-21, 5-6=21, 7-8=-14, 8-10=14, 10-11=12
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-3, 2-5=2, 5-28=2, 8-28=9, 8-10=9, 11-22=-12
    Horz: 1-2=-9, 2-5=-14, 5-6=14, 7-8=-21, 8-10=21, 10-11=-5
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=6, 2-5=2, 5-28=2, 8-28=-11, 8-10=-11, 11-22=-20
    Horz: 1-2=-26, 2-5=-22, 5-6=22, 7-8=-9, 8-10=9, 10-11=6
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-5=-11, 5-28=-11, 8-28=2, 8-10=2, 11-22=-20
    Horz: 1-2=-13, 2-5=-9, 5-6=9, 7-8=-22, 8-10=22, 10-11=-19
18) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
    Uniform Loads (plf)
    Vert: 1-5=-20, 5-8=-20, 8-10=-20, 11-22=-20
19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-55, 2-5=-58, 5-8=-34, 8-10=-44, 11-22=-20
    Horz: 1-2=5, 2-5=8, 5-6=16, 7-8=-16, 8-10=6, 10-11=6
20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=-40, 2-5=-44, 5-8=-34, 8-10=-58, 11-22=-20
Horz: 1-2=-10, 2-5=-6, 5-6=16, 7-8=-16, 8-10=-8, 10-11=-16

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-5=-34, 5-28=-34, 8-28=-44, 8-10=-44, 11-22=-20
Horz: 1-2=-20, 2-5=-16, 5-6=16, 7-8=-6, 8-10=6, 10-11=5

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, 2-5=-44, 5-28=-44, 8-28=-34, 8-10=-34, 11-22=-20
Horz: 1-2=-10, 2-5=-6, 5-6=6, 7-8=-16, 8-10=16, 10-11=-15

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-8=-60, 8-10=-20, 11-22=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-20, 5-8=-60, 8-10=-60, 11-22=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-8=-50, 8-10=-20, 11-22=-20

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-20, 5-8=-50, 8-10=-50, 11-22=-20

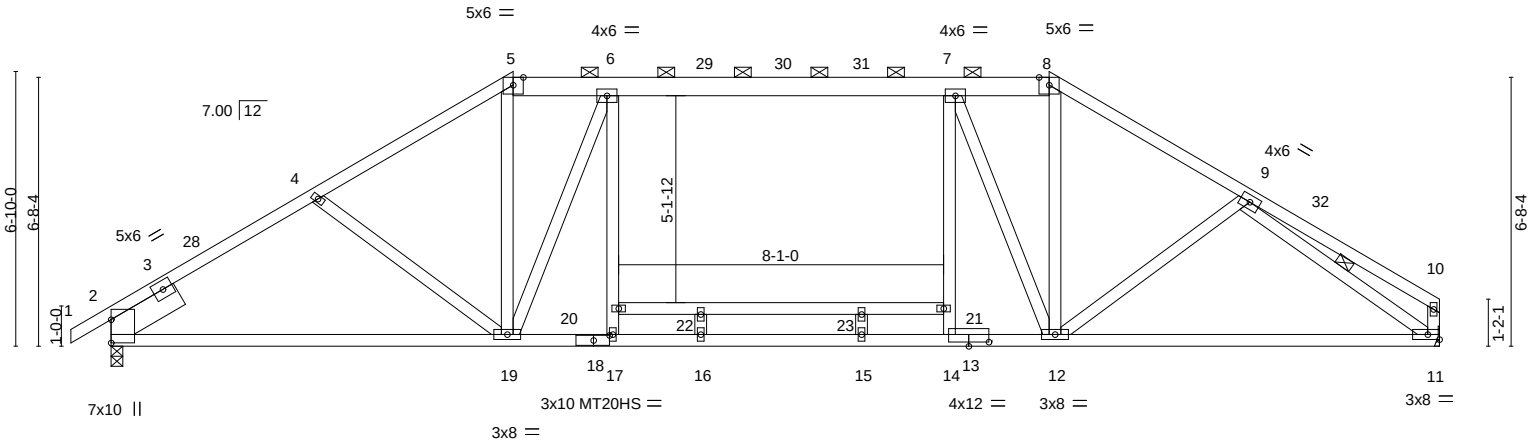
Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	A12	HIP	1	1	I53118223
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.530 s May 26 2022 MiTek Industries, Inc. Fri Jul 15 14:36:11 2022 Page 1

ID:I4aFSohUB3AZsI1Dxo?QKDyyp17-Aup24diOjRIEnSFtyp58_XyFMHXZPz7rN5KlaWyxo?I

1-0-0	5-1-12	10-0-0	12-7-8	16-8-0	20-8-8	23-4-0	28-2-4	33-0-8
1-0-0	5-1-12	4-10-4	2-7-8	4-0-8	4-0-8	2-7-8	4-10-4	4-10-4

Scale = 1:57.3



10-0-0	12-7-8	14-8-0	16-8-0	18-8-0	20-8-8	23-4-0	33-0-8
10-0-0	2-7-8	2-0-8	2-0-0	2-0-0	2-0-8	2-7-8	9-8-8

Plate Offsets (X,Y)-- [13:0-6-0,0-1-4], [18:0-4-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.29	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.46	15-16	>861	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	17-19	>999	240	Weight: 218 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.1 *Except* 5-8: 2x6 SP No.2, 8-10: 2x4 SP No.2
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-6-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-7 max.): 5-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 9-11

REACTIONS. (size) 11=Mechanical, 2=0-3-8
Max Horz 2=139(LC 11)
Max Uplift 11=-48(LC 13), 2=-65(LC 12)
Max Grav 11=1315(LC 1), 2=1377(LC 1)

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

TOP CHORD	2-3=-503/0, 3-28=-1869/111, 4-28=-1839/133, 4-5=-1706/129, 5-6=-1443/140, 6-29=-1709/158, 29-30=-1709/158, 30-31=-1709/158, 7-31=-1709/158, 7-8=-1419/136, 8-9=-1707/130, 9-32=-257/20, 10-32=-290/3
BOT CHORD	2-19=-103/1520, 18-19=-32/1705, 17-18=-32/1705, 16-17=-32/1678, 15-16=-32/1678, 14-15=-32/1678, 13-14=-32/1705, 12-13=-32/1705, 11-12=-75/1438
WEBS	5-19=-61/753, 6-19=-835/219, 7-12=-897/216, 8-12=-66/829, 9-11=-1601/121, 17-20=0/346, 6-20=0/435, 14-21=-7/317, 7-21=0/403

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-4-0, Interior(1) 2-4-0 to 10-0-0, Exterior(2) 10-0-0 to 14-8-9, Interior(1) 14-8-9 to 23-4-0 , Exterior(2) 23-4-0 to 28-3-10, Interior(1) 28-3-10 to 32-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 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.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 11 and 65 lb uplift at joint 2.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) N/A
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

July 16,2022

LOAD CASE(S)

Continued on page 2

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

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-60, 5-8=-60, 8-10=-60, 11-24=-20
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-50, 5-8=-50, 8-10=-50, 11-24=-20, 20-21=-30
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-20, 5-8=-20, 8-10=-20, 11-24=-40, 20-21=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=32, 2-28=17, 5-28=12, 5-29=20, 8-29=15, 8-9=17, 9-10=12, 11-24=-12
   Horz: 1-2=-44, 2-28=-29, 5-28=-24, 5-6=32, 7-8=-27, 8-9=29, 9-10=24, 10-11=25
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=8, 2-4=12, 4-5=17, 5-31=15, 8-31=20, 8-32=12, 10-32=17, 11-24=-12
   Horz: 1-2=-20, 2-4=-24, 4-5=-29, 5-6=27, 7-8=-32, 8-32=24, 10-32=29, 10-11=-13
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-0, 2-5=-44, 5-8=-29, 8-10=-44, 11-24=-20
   Horz: 1-2=-20, 2-5=24, 5-6=-9, 7-8=9, 8-10=-24, 10-11=-22
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-40, 2-5=-44, 5-8=-29, 8-10=-44, 11-24=-20
   Horz: 1-2=20, 2-5=24, 5-6=-9, 7-8=9, 8-10=-24, 10-11=16
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-4, 2-5=-14, 5-8=19, 8-10=5, 11-24=-12
   Horz: 1-2=-8, 2-5=2, 5-6=31, 7-8=-31, 8-10=17, 10-11=16
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=1, 2-5=5, 5-8=19, 8-10=-14, 11-24=-12
   Horz: 1-2=-13, 2-5=-17, 5-6=31, 7-8=-31, 8-10=-2, 10-11=-13
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-27, 2-5=-31, 5-8=2, 8-10=-11, 11-24=-20
    Horz: 1-2=7, 2-5=11, 5-6=22, 7-8=-22, 8-10=9, 10-11=7
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-5=-11, 5-8=2, 8-10=-31, 11-24=-20
    Horz: 1-2=-13, 2-5=-9, 5-6=22, 7-8=-22, 8-10=-11, 10-11=-21
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=14, 2-5=19, 5-30=19, 8-30=5, 8-10=5, 11-24=-12
    Horz: 1-2=-26, 2-5=-31, 5-6=31, 7-8=-17, 8-10=17, 10-11=15
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=1, 2-5=5, 5-30=5, 8-30=19, 8-10=19, 11-24=-12
    Horz: 1-2=-13, 2-5=-17, 5-6=17, 7-8=-31, 8-10=31, 10-11=-11
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=5, 2-5=9, 5-30=9, 8-30=2, 8-10=2, 11-24=-12
    Horz: 1-2=-17, 2-5=-21, 5-6=21, 7-8=-14, 8-10=14, 10-11=12
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-3, 2-5=2, 5-30=2, 8-30=9, 8-10=9, 11-24=-12
    Horz: 1-2=-9, 2-5=-14, 5-6=14, 7-8=-21, 8-10=21, 10-11=-5
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=6, 2-5=2, 5-30=2, 8-30=-11, 8-10=-11, 11-24=-20
    Horz: 1-2=-26, 2-5=-22, 5-6=22, 7-8=-9, 8-10=9, 10-11=6
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-5=-11, 5-30=-11, 8-30=2, 8-10=2, 11-24=-20
    Horz: 1-2=-13, 2-5=-9, 5-6=9, 7-8=-22, 8-10=22, 10-11=-19
18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
    Uniform Loads (plf)
    Vert: 1-5=-20, 5-8=-20, 8-10=-20, 11-24=-20, 20-21=-40
19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-55, 2-5=-58, 5-8=-34, 8-10=-44, 11-24=-20, 20-21=-30
    Horz: 1-2=5, 2-5=8, 5-6=16, 7-8=-16, 8-10=6, 10-11=6
20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=-40, 2-5=-44, 5-8=-34, 8-10=-58, 11-24=-20, 20-21=-30
Horz: 1-2=-10, 2-5=-6, 5-6=16, 7-8=-16, 8-10=-8, 10-11=-16

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-5=-34, 5-30=-34, 8-30=-44, 8-10=-44, 11-24=-20, 20-21=-30
Horz: 1-2=-20, 2-5=-16, 5-6=16, 7-8=-6, 8-10=6, 10-11=5

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, 2-5=-44, 5-30=-44, 8-30=-34, 8-10=-34, 11-24=-20, 20-21=-30
Horz: 1-2=-10, 2-5=-6, 5-6=6, 7-8=-16, 8-10=16, 10-11=-15

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-8=-60, 8-10=-20, 11-24=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-20, 5-8=-60, 8-10=-60, 11-24=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-8=-50, 8-10=-20, 11-24=-20, 20-21=-30

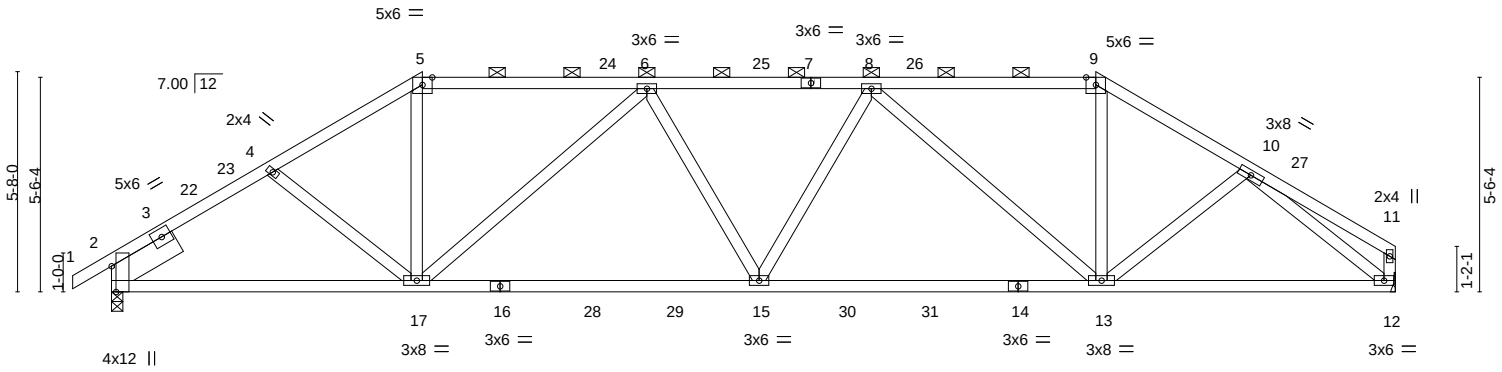
26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-20, 5-8=-50, 8-10=-50, 11-24=-20, 20-21=-30

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	A13	HIP	1	1	I53118224
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:00 2022 Page 1
ID:I4aFSohUB3AZsI1Dxo?QKDyyp17-0VRlln125OkvmQrxcG87Yw4RpBjVkiyfGyFeicyxty5

1-0-0	4-1-12	8-0-0	13-9-5	19-6-11	25-4-0	29-2-4	33-0-8
1-0-0	4-1-12	3-10-4	5-9-5	5-9-5	5-9-5	3-10-4	3-10-4

Scale = 1:59.3



8-0-0	16-8-0	25-4-0	33-0-8
8-0-0	8-8-0	8-8-0	7-8-8

Plate Offsets (X,Y)-- [2:0-7-15,Edge], [2:0-0-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.17	15-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.38	15-17	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.09	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.08	15-17	>999	240	Weight: 186 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.1 *Except* 5-7,7-9: 2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-7-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-13 max.): 5-9.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 2=0-3-8
Max Horz 2=116(LC 11)
Max Uplift 12=-51(LC 13), 2=-68(LC 12)
Max Grav 12=1315(LC 1), 2=1377(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1855/122, 4-5=-1786/121, 5-6=-1523/127, 6-8=-2077/141, 8-9=-1471/124, 9-10=-1762/124
BOT CHORD 2-17=-93/1485, 15-17=-110/2033, 13-15=-82/2018, 12-13=-74/1383
WEBS 5-17=0/548, 6-17=-742/135, 8-13=-786/134, 9-13=0/570, 10-12=-1647/102

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-4-0, Interior(1) 2-4-0 to 8-0-0, Exterior(2) 8-0-0 to 12-8-9, Interior(1) 12-8-9 to 25-4-0, Exterior(2) 25-4-0 to 30-0-9, Interior(1) 30-0-9 to 32-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 12 and 68 lb uplift at joint 2.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

July 16,2022

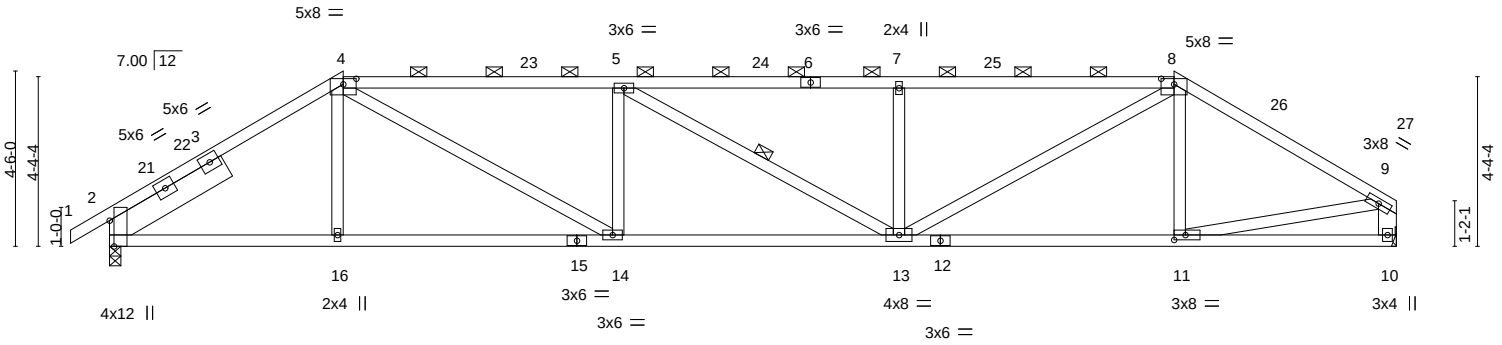
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	A14	HIP	1	1	I53118225
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:01 2022 Page 1
ID:I4aFSohUB3AZsI1Dxo?QKDyyp17-Ui?7y72gshslOaQ89zfM58ca9a4eTFBoVb_CE2yxty4

1-0-0	6-0-0	13-0-12	20-3-4	27-4-0	33-0-8
1-0-0	6-0-0	7-0-12	7-2-8	7-0-12	5-8-8

Scale = 1:59.2



6-0-0	13-0-12	20-3-4	27-4-0	33-0-8
6-0-0	7-0-12	7-2-8	7-0-12	5-8-8

Plate Offsets (X,Y)-- [2:0-7-15,Edge], [4:0-4-0,0-1-11], [8:0-4-0,0-1-11], [11:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.16	14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.35	14-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.12	14-16	>999	240	Weight: 181 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 9-10: 2x6 SP No.2
SLIDER	Left 2x8 SP DSS 3-5-14

BRACING-

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

REACTIONS. (size) 10=Mechanical, 2=0-3-8
Max Horz 2=93(LC 11)
Max Uplift 10=-53(LC 13), 2=-70(LC 12)
Max Grav 10=1312(LC 1), 2=1373(LC 1)

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

TOP CHORD	2-4=-1884/115, 4-5=-2630/169, 5-7=-2582/169, 7-8=-2583/170, 8-9=-1800/107, 9-10=-1264/92
BOT CHORD	2-16=-106/1569, 14-16=-109/1567, 13-14=-179/2629, 11-13=-51/1498
WEBS	4-14=-155/1287, 5-14=-485/163, 7-13=-469/148, 8-13=-147/1300, 9-11=-62/1372

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-4-0, Interior(1) 2-4-0 to 6-0-0, Exterior(2) 6-0-0 to 10-8-9, Interior(1) 10-8-9 to 27-4-0, Exterior(2) 27-4-0 to 32-0-9, Interior(1) 32-0-9 to 32-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 10 and 70 lb uplift at joint 2.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	A15-2PL	MONO HIP	1	2	I53118226
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:03 2022 Page 1
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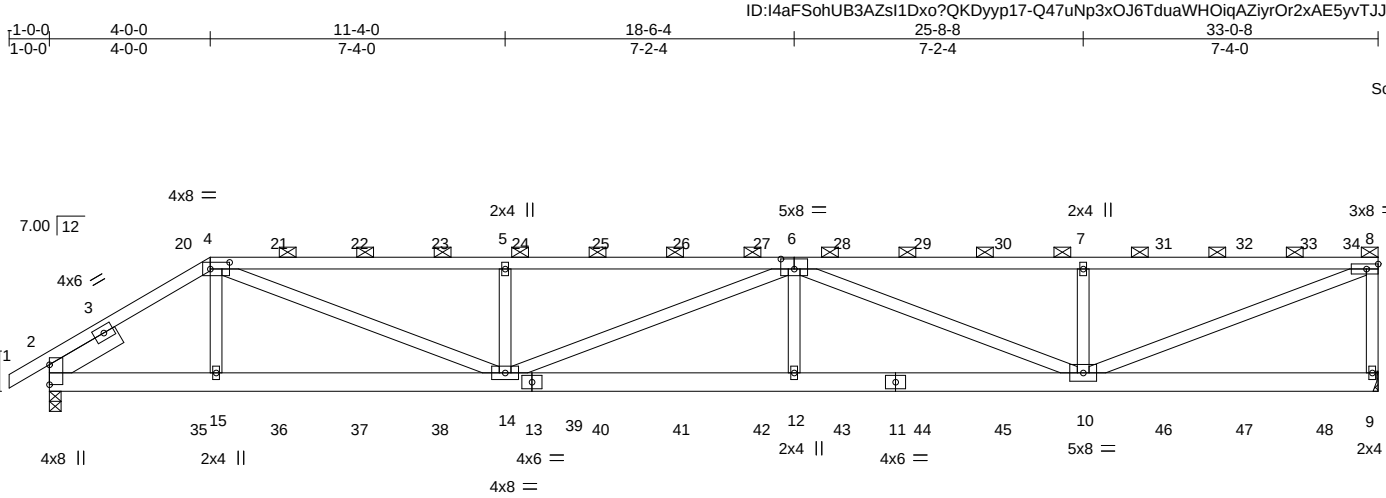

Plate Offsets (X,Y)-- [4:0-5-12,0-2-0], [6:0-4-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.17	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.35	12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.22	12-14	>999	240	Weight: 394 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
1-4: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-15 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=Mechanical, 2=0-3-8
Max Horz 2=91(LC 7)
Max Uplift 9=-461(LC 5), 2=-1482(LC 8)
Max Grav 9=1826(LC 1), 2=1943(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2775/2126, 4-5=-4815/1895, 5-6=-4815/1895, 6-7=-3625/980, 7-8=-3625/980, 8-9=-1709/502
BOT CHORD 2-15=-1823/2310, 14-15=-1851/2304, 12-14=-1627/5161, 10-12=-1627/5161
WEBS 4-15=-596/68, 4-14=-119/2732, 5-14=-631/288, 6-14=-470/0, 6-12=0/392, 6-10=-1661/681, 7-10=-613/284, 8-10=-1033/3829

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=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
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 461 lb uplift at joint 9 and 1482 lb uplift at joint 2.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Continued on page 2

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NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 296 lb down and 464 lb up at 3-8-0, 39 lb down and 65 lb up at 5-8-0, 39 lb down and 65 lb up at 7-8-0, 39 lb down and 65 lb up at 9-8-0, 39 lb down and 65 lb up at 11-8-0, 39 lb down and 65 lb up at 13-8-0, 39 lb down and 65 lb up at 15-8-0, 39 lb down and 63 lb up at 17-8-0, 39 lb down and 65 lb up at 19-8-0, 39 lb down and 65 lb up at 21-8-0, 39 lb down and 65 lb up at 23-8-0, 39 lb down and 65 lb up at 25-8-0, 39 lb down and 65 lb up at 27-8-0, 39 lb down and 65 lb up at 29-8-0, and 2 lb down and 5 lb up at 31-3-4, and 39 lb down and 65 lb up at 31-8-0 on top chord, and 969 lb up at 3-8-0, 32 lb down at 5-8-0, 32 lb down at 7-8-0, 32 lb down at 9-8-0, 32 lb down at 11-8-0, 32 lb down at 13-8-0, 32 lb down at 15-8-0, 32 lb down at 17-8-0, 32 lb down at 19-8-0, 32 lb down at 21-8-0, 32 lb down at 23-8-0, 32 lb down at 25-8-0, 32 lb down at 27-8-0, and 32 lb down at 29-8-0, and 32 lb down at 31-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-8=-60, 9-16=-20
   Concentrated Loads (lb)
   Vert: 7=-39(F) 10=-22(F) 20=-269(F) 21=-39(F) 22=-39(F) 23=-39(F) 24=-39(F) 25=-39(F) 26=-39(F) 27=-39(F) 28=-39(F) 29=-39(F) 30=-39(F) 31=-39(F) 32=-39(F) 34=-39(F) 35=49(F) 36=-22(F) 37=-22(F) 38=-22(F) 39=-22(F) 40=-22(F) 41=-22(F) 42=-22(F) 43=-22(F) 44=-22(F) 45=-22(F) 46=-22(F) 47=-22(F) 48=-22(F)

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	B01G	GABLE	1	1	I53118227
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:04 2022 Page 1
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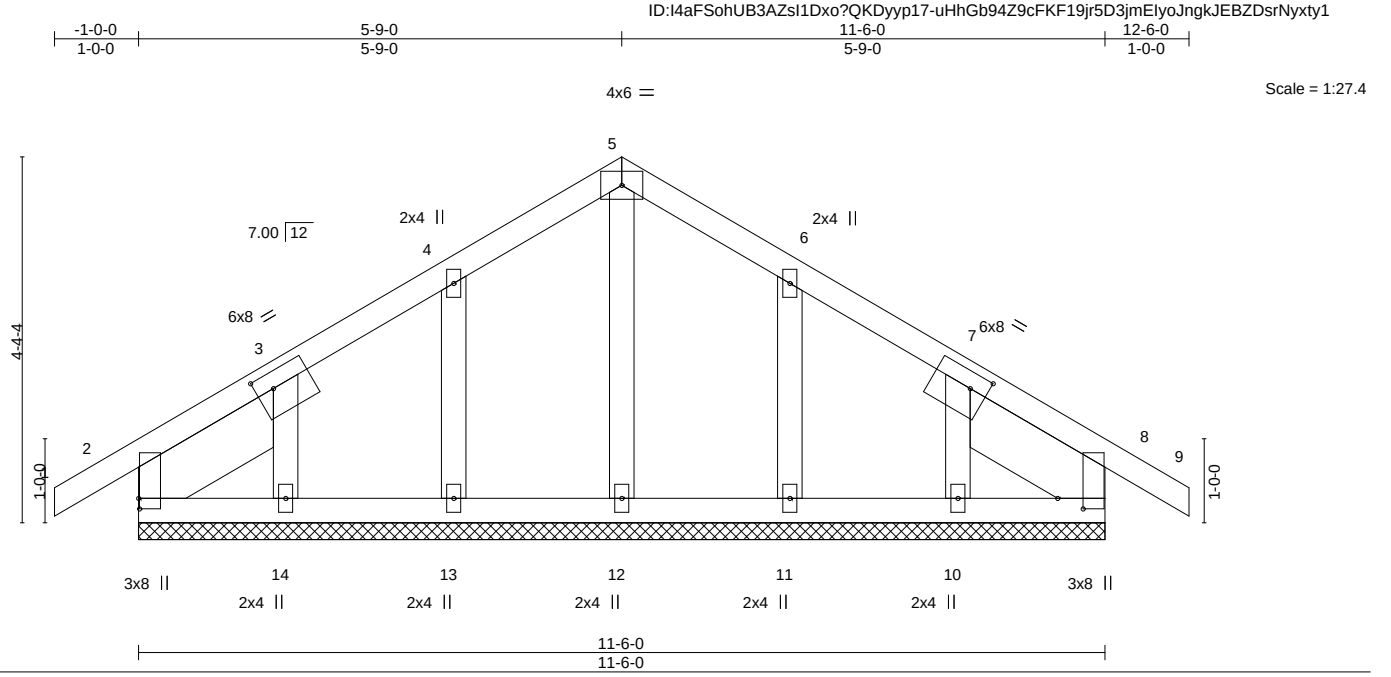

Plate Offsets (X,Y)-- [2:0-1-8,0-0-2], [3:0-2-8,0-2-4], [7:0-2-8,0-2-4], [8:0-1-8,0-3-10]

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	0.07	Vert(LL)	-0.00	8	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 71 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x8 SP DSS 2-0-8, Right 2x8 SP DSS 2-0-8

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 11-6-0.
(lb) - Max Horz 2=79(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 14, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 1-9-0, Exterior(2) 1-9-0 to 5-9-0, Corner(3) 5-9-0 to 8-9-0, Exterior(2) 8-9-0 to 12-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13, 14, 11, 10.

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Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	C01	COMMON	3	1	I53118228
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:06 2022 Page 1
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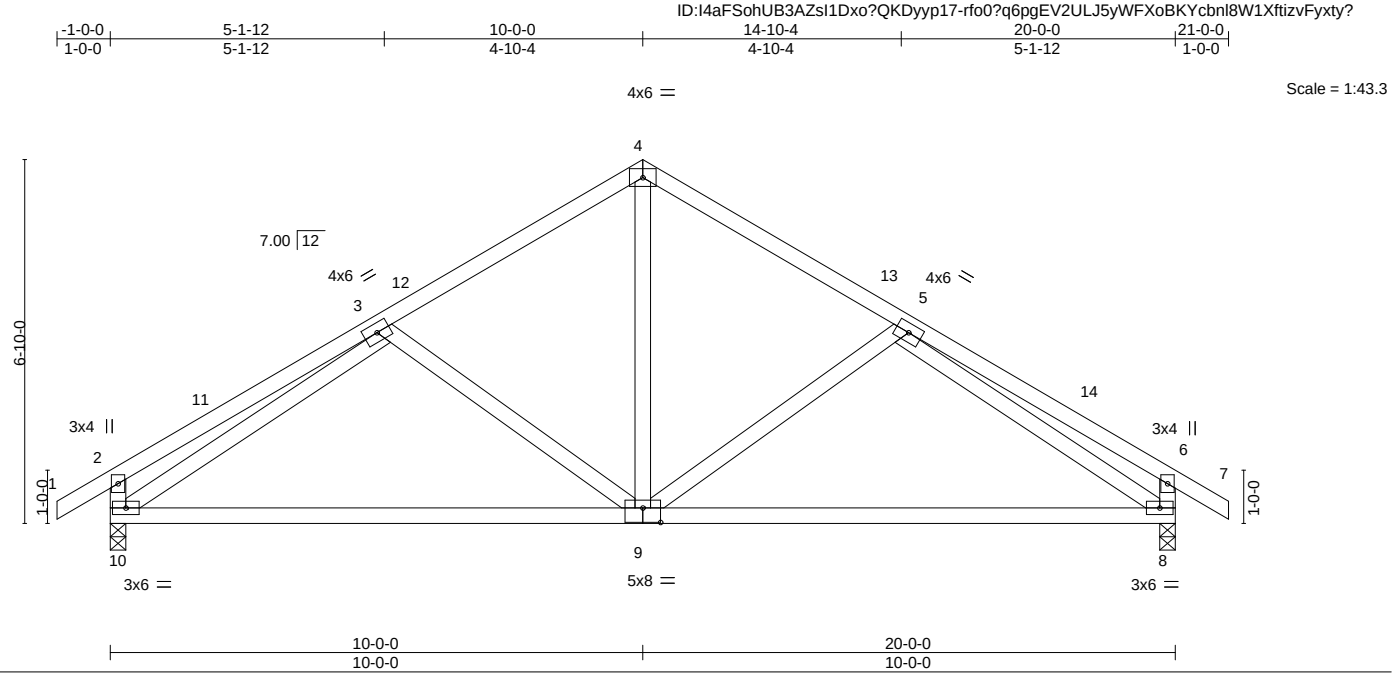

Plate Offsets (X,Y)-- [9:0-4-0,0-3-4]

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	0.51	Vert(LL)	-0.18	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.38	9-10	>631	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.01	9	>999	240	Weight: 114 lb	FT = 20%

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

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

REACTIONS. (size) 10=0-3-8, 8=0-3-8
Max Horz 10=-149(LC 10)
Max Uplift 10=-5(LC 12), 8=-5(LC 13)
Max Grav 10=857(LC 1), 8=857(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-339/83, 2-3=-324/57, 3-4=-811/72, 4-5=-811/72, 5-6=-323/57, 6-8=-339/83
BOT CHORD 9-10=-20/799, 8-9=0/795
WEBS 4-9=0/501, 5-8=-725/47, 3-10=-725/47

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-0-0, Exterior(2) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 21-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8.

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Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	C01G	KINGPOST	1	1	I53118229
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:07 2022 Page 1
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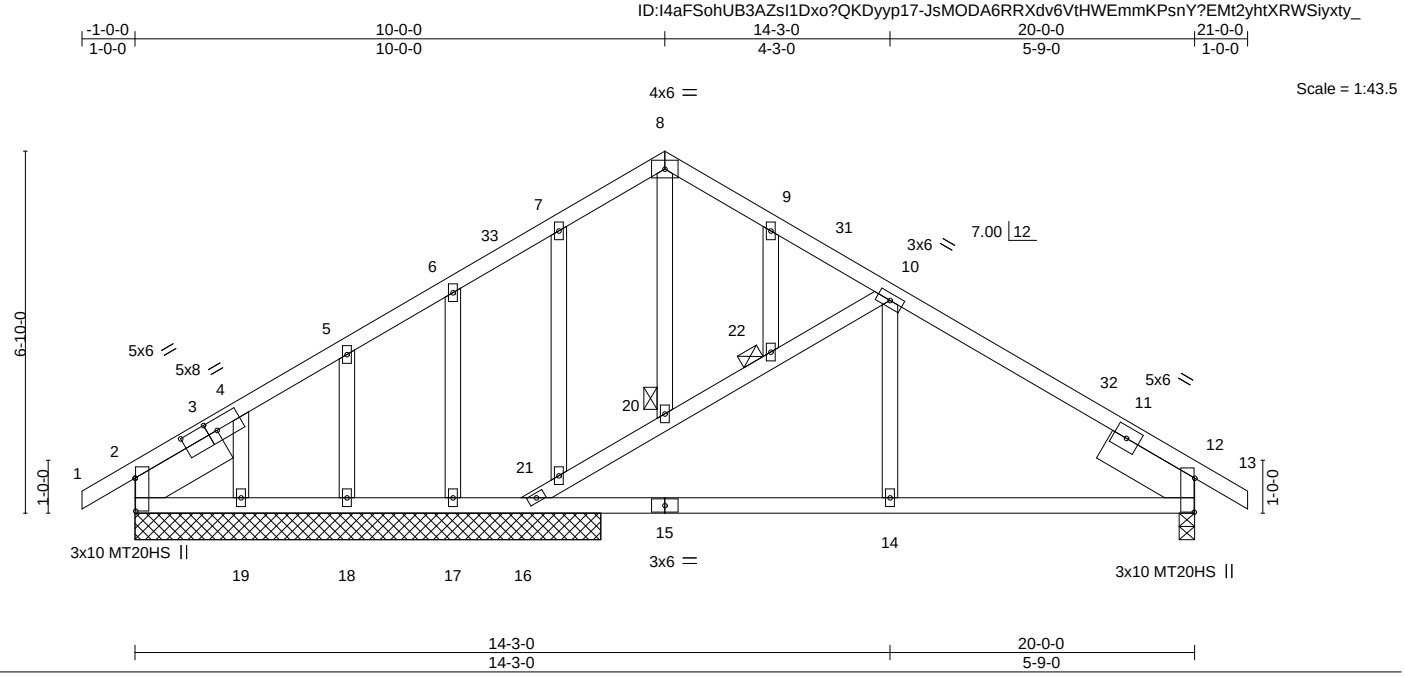

Plate Offsets (X,Y)-- [2:1-1-6,0-2-8], [2:0-7-7,0-0-2], [4:0-2-2,0-2-8], [12:0-7-11,0-0-2]

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	0.24	Vert(LL)	-0.04	14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.09	14-16	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.23	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.02	14-25	>999	240	Weight: 128 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

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.
JOINTS	1 Brace at Jt(s): 20, 22

REACTIONS. All bearings 8-9-8 except (jt=length) 12=0-3-8.
(lb) - Max Horz 12=127(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 12, 17, 18, 19
Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19 except 12=635(LC 1), 16=496(LC 3), 2=319(LC 1), 2=319(LC 1)

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

TOP CHORD	9-10=-273/56, 10-12=-668/44, 3-4=-255/0
BOT CHORD	14-16=-41/557, 12-14=-41/557
WEBS	16-21=-437/97, 20-21=-400/91, 20-22=-426/100, 10-22=-405/94

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-0-0, Exterior(2) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 21-0-0 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) All plates are MT20 plates unless otherwise indicated.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 17, 18, 19.

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Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	C02-3PL	COMMON	1	3	I53118230

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:08 2022 Page 1
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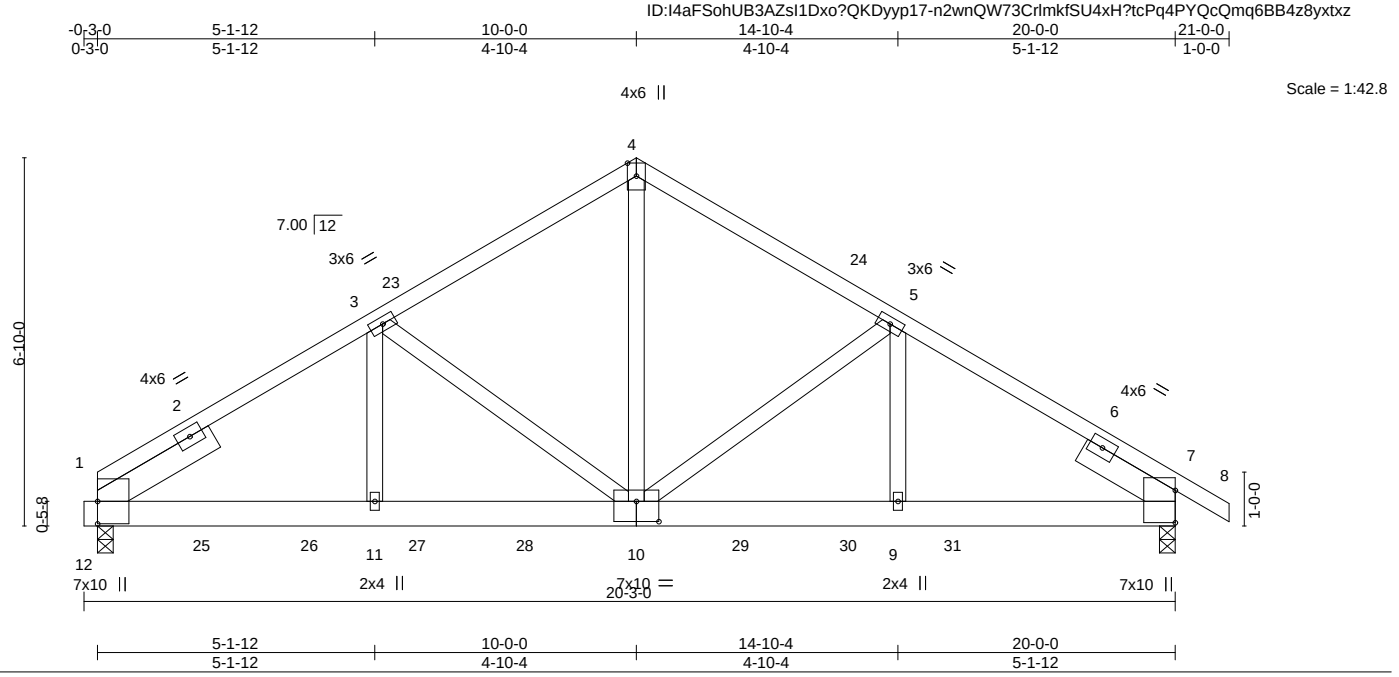

Plate Offsets (X,Y)-- [1:0-5-0,0-0-0], [10:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.10	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.20	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.07	10-11	>999	240	Weight: 390 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.1
BOT CHORD	2x6 SP DSS
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 2-5-12, Right 2x6 SP No.2 1-11-12

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=0-3-8, 7=0-3-8
Max Horz 1=-123(LC 6)
Max Uplift 7=-506(LC 9)
Max Grav 1=8000(LC 1), 7=5843(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-8704/233, 3-4=-6741/363, 4-5=-6745/360, 5-7=-8706/700
BOT CHORD 1-11=-197/7337, 10-11=-197/7337, 9-10=-521/7352, 7-9=-521/7352
WEBS 3-11=0/2220, 3-10=-1931/0, 4-10=-314/6292, 5-10=-1946/463, 5-9=-386/2172

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=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
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=506.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1302 lb down and 49 lb up at 0-0-12, 1295 lb down at 1-11-4, 1295 lb down and 56 lb up at 3-11-4, 1289 lb down and 61 lb up at 5-11-4, 1295 lb down and 64 lb up at 7-11-4, 1295 lb down and 68 lb up at 9-11-4, 1295 lb down and 71 lb up at 11-11-4, and 1292 lb down and 73 lb up at 13-11-4, and 1806 lb down and 481 lb up at 15-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

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Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-8=-60, 13-19=-20

Concentrated Loads (lb)

Vert: 10=-1295(F) 15=-1302 25=-1295(F) 26=-1295 27=-1289(F) 28=-1295(F) 29=-1295(F) 30=-1292(F) 31=-1806(F)

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	CP01	COMMON	4	1	I53118231
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:09 2022 Page 1
ID:I4aFSohUB3AZsI1Dxo?QKDyyp17-FEU9es8iz9tdLp1gdfpEQqy5RpygL_gzLrwdVayxtxy

-1-0-0 6-0-0 12-0-0 13-0-0
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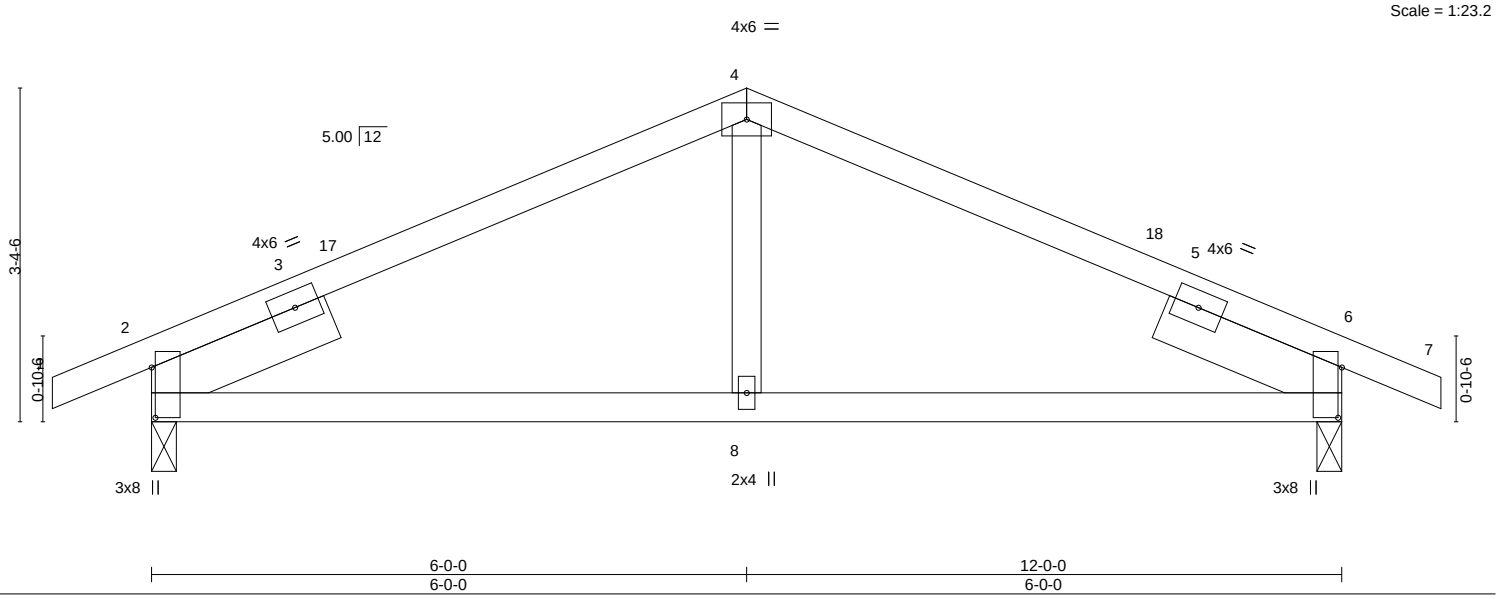

6-0-0 12-0-0
6-0-0 6-0-0

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

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.03	8-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.05	8-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	8-11	>999	240	Weight: 54 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-0, 6=0-3-0
Max Horz 2=50(LC 12)
Max Uplift 2=-23(LC 12), 6=-23(LC 13)
Max Grav 2=540(LC 1), 6=540(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-603/91, 4-6=-603/91
BOT CHORD 2-8=-6/512, 6-8=-6/512

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

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Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	CP01G	GABLE	1	1	I53118232
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:10 2022 Page 1
ID:I4aFSohUB3AZsI1Dxo?QKDyyp17-jQ2XrC9KkS?UzycsBMKUy1ULaDM94Sm7ZVgA11yxtxx

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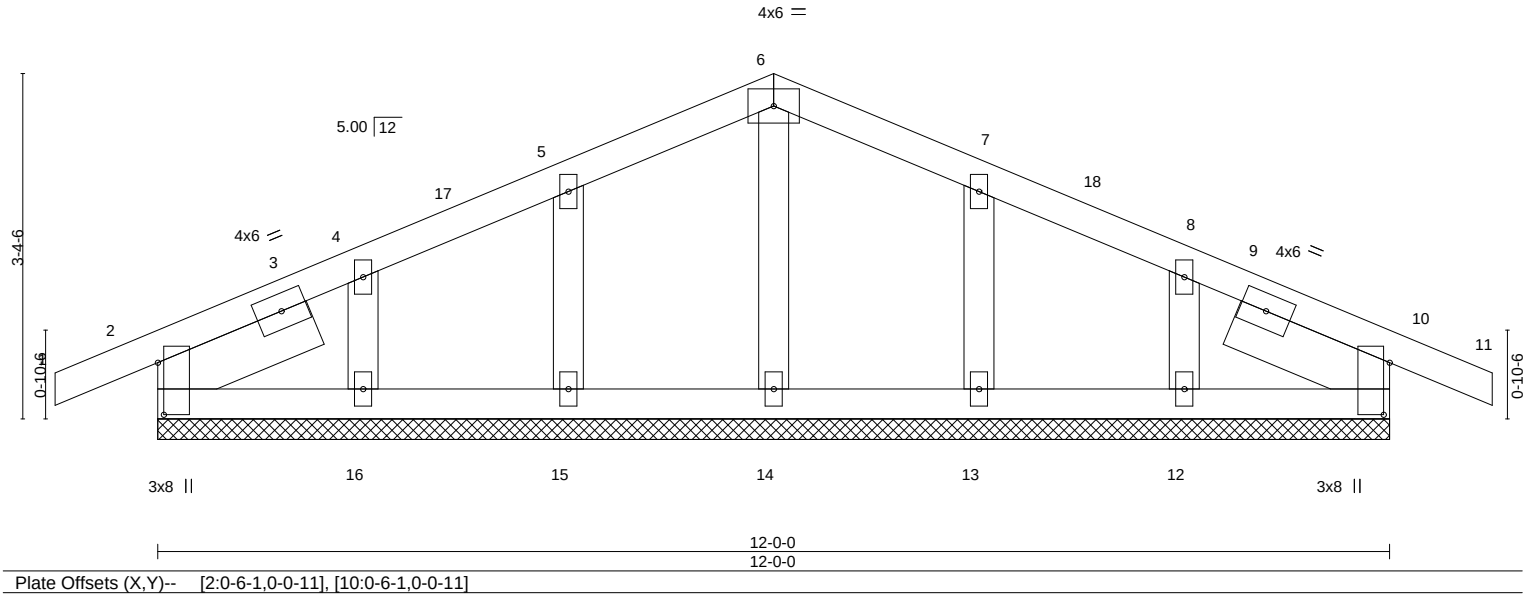

Plate Offsets (X,Y)-- [2:0-6-1,0-0-11], [10:0-6-1,0-0-11]

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	0.06	Vert(LL)	-0.00	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 62 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 1-8-0, Right 2x6 SP No.2 1-8-0

BRACING-

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

REACTIONS. All bearings 12-0-0.
(lb) - Max Horz 2=39(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

NOTES-

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

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	CV01	GABLE	1	1	I53118233
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:11 2022 Page 1
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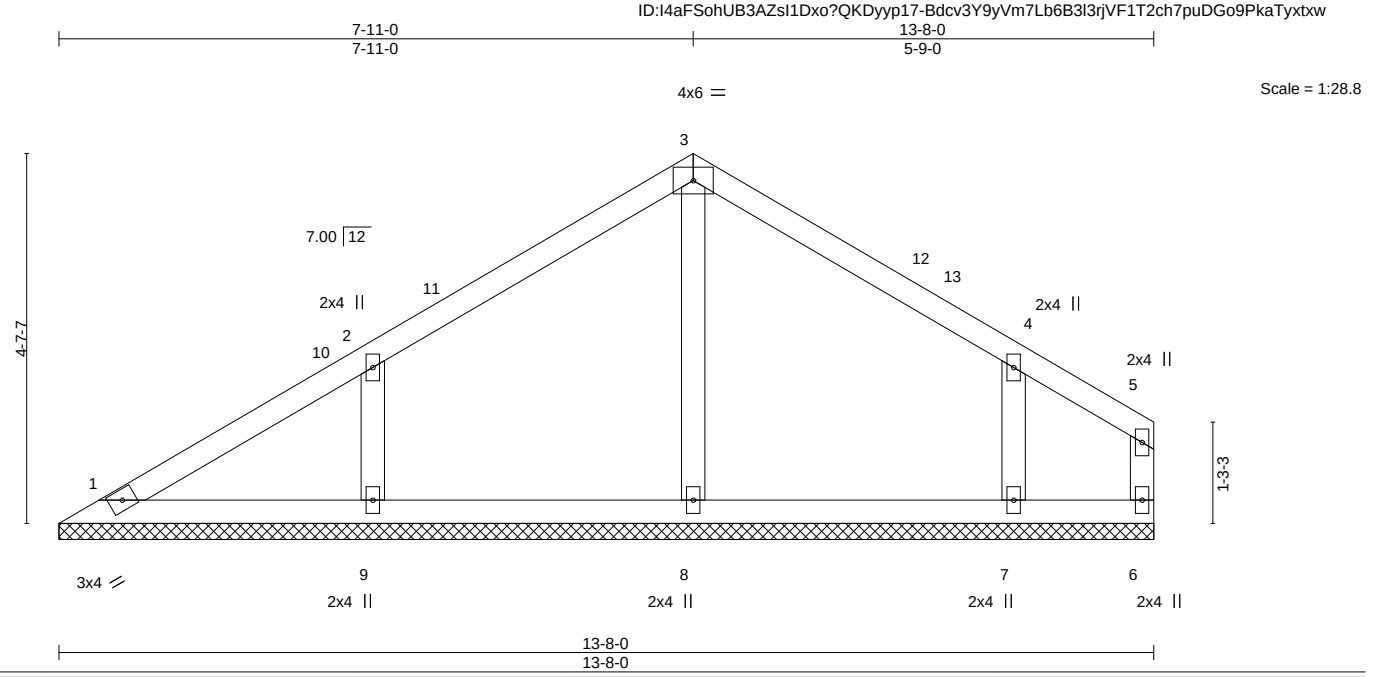

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 56 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 13-8-0.
(lb) - Max Horz 1=96(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 9, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 8=299(LC 1), 9=350(LC 19), 7=300(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-265/126

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 7-11-0, Exterior(2) 7-11-0 to 10-11-0, Interior(1) 10-11-0 to 13-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 9, 7.

July 16,2022

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Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	CV02	GABLE	1	1	I53118234
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:12 2022 Page 1
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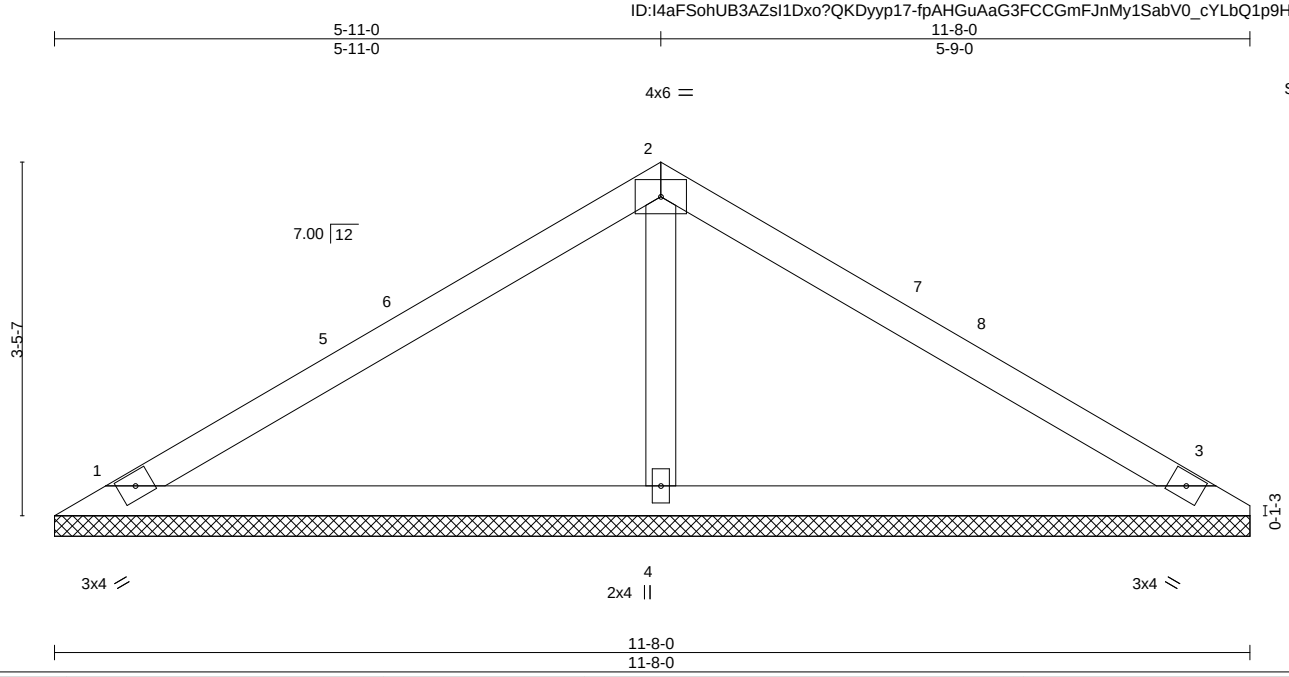

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 40 lb	FT = 20%

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

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

REACTIONS. (size) 1=11-8-0, 3=11-8-0, 4=11-8-0
Max Horz 1=-62(LC 10)
Max Uplift 1=-20(LC 12), 3=-28(LC 13)
Max Grav 1=204(LC 1), 3=204(LC 1), 4=453(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-295/63

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 5-11-0, Exterior(2) 5-11-0 to 8-11-0, Interior(1) 8-11-0 to 11-3-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	CV03	VALLEY	1	1	I53118235
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:13 2022 Page 1
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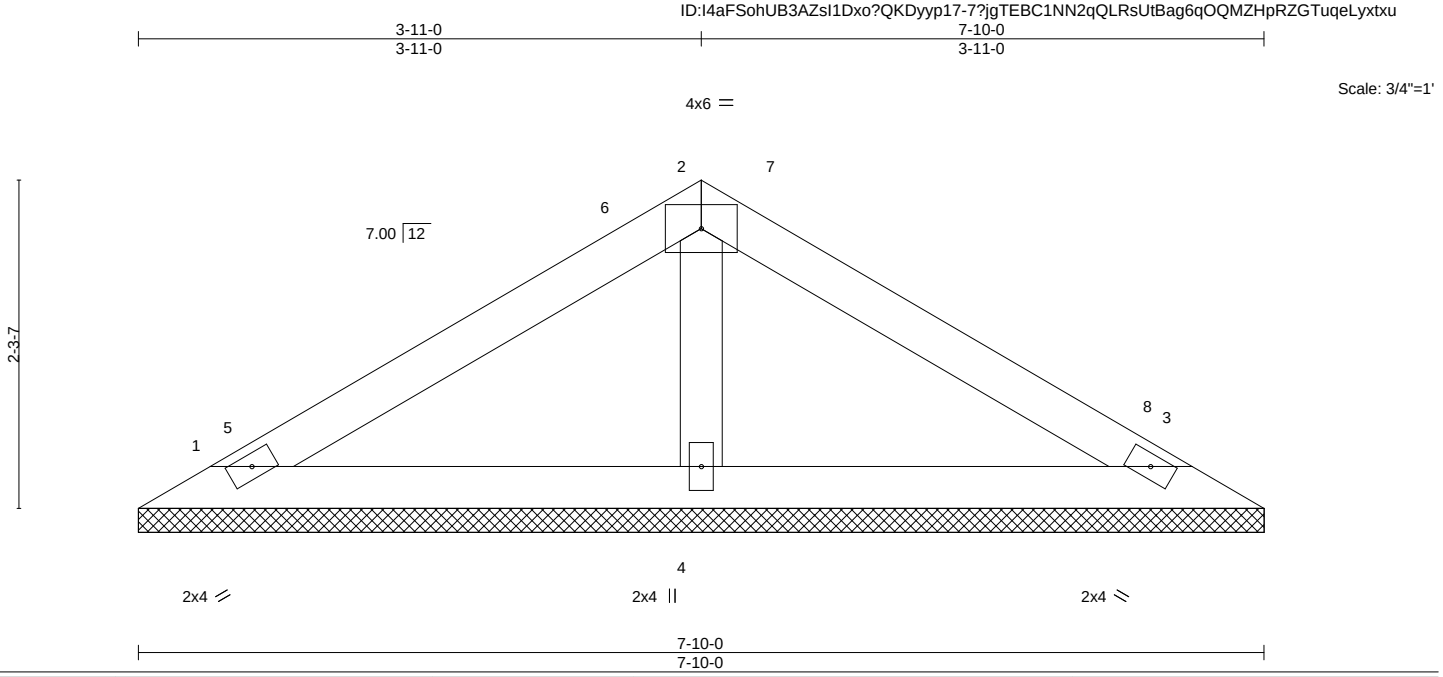


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 26 lb	FT = 20%

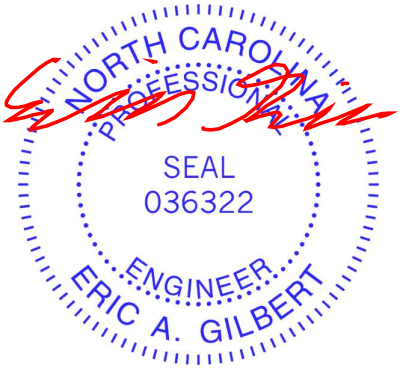
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 1=7-10-0, 3=7-10-0, 4=7-10-0
Max Horz 1=-39(LC 8)
Max Uplift 1=-13(LC 12), 3=-18(LC 13)
Max Grav 1=128(LC 1), 3=128(LC 1), 4=285(LC 1)

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

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



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Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	CV04	VALLEY	1	1	I53118236
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:14 2022 Page 1
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1-11-0 1-11-0

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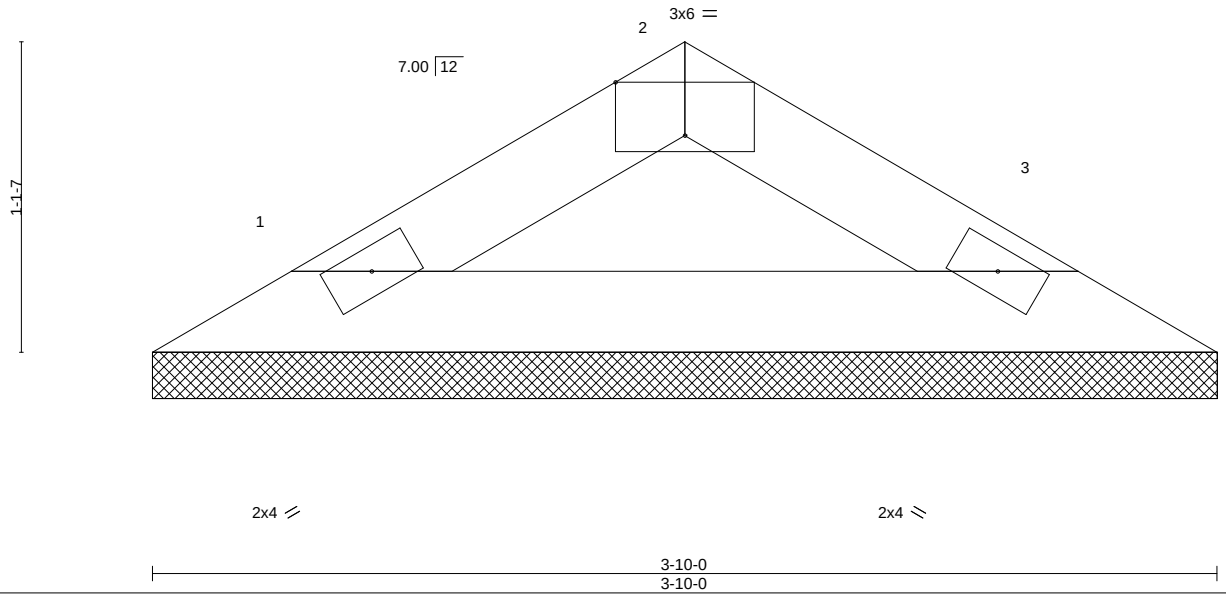

Plate Offsets (X,Y)-- [2:0-3-0,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 11 lb	FT = 20%

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

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

REACTIONS. (size) 1=3-10-0, 3=3-10-0
Max Horz 1=16(LC 9)
Max Uplift 1=-3(LC 12), 3=-3(LC 13)
Max Grav 1=110(LC 1), 3=110(LC 1)

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

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

July 16,2022

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	D01G	GABLE	1	1	I53118237
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:14 2022 Page 1
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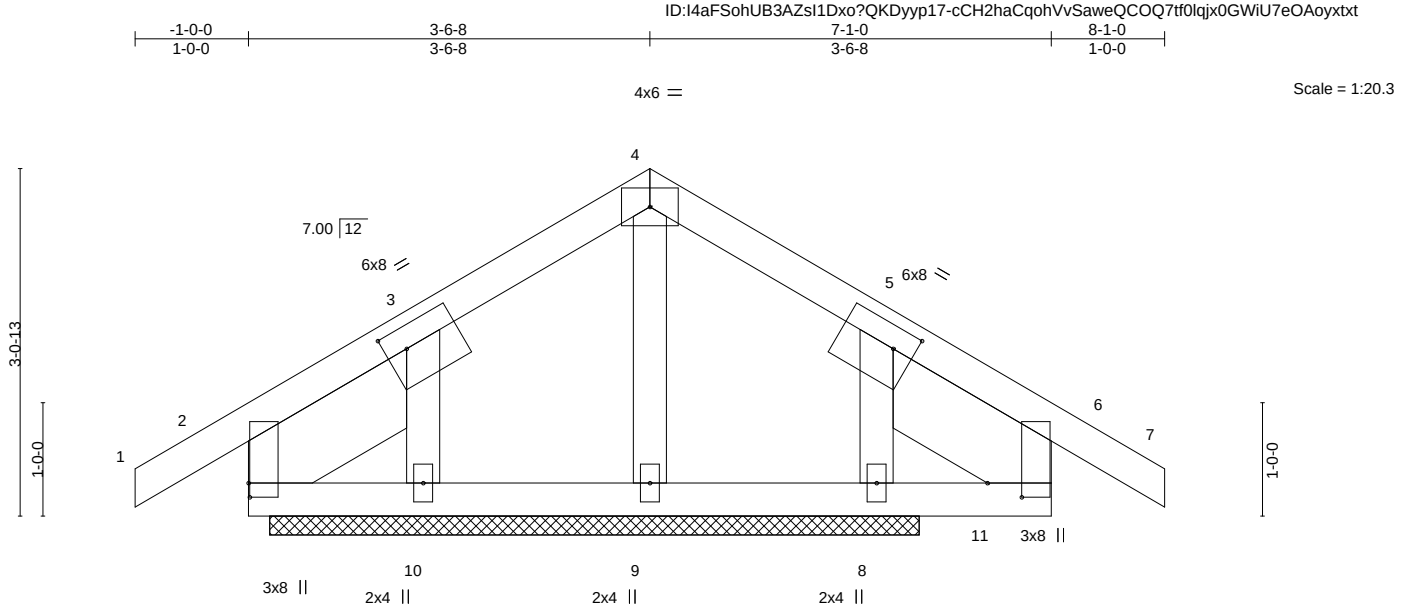

Plate Offsets (X,Y)-- [2:0-1-8,0-0-2], [3:0-2-4,0-2-4], [5:0-2-4,0-2-4], [6:0-1-8,0-3-10]

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	0.11	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 45 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-9-10, Right 2x8 SP DSS 1-9-10

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

REACTIONS. All bearings 5-8-12.
(lb) - Max Horz 2=-54(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 9, 10, 8

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

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

July 16,2022

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

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	D02	COMMON	3	1	I53118238
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:15 2022 Page 1
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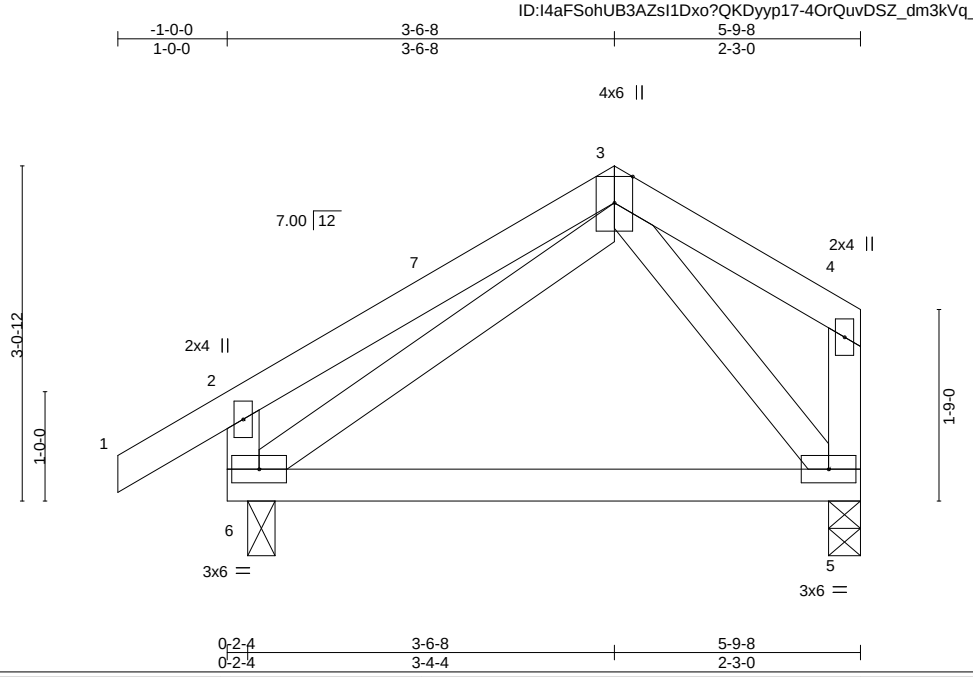

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.05	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.11	5-6	>601	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	6	****	240	Weight: 34 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-9-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 6=0-3-0
Max Horz 6=72(LC 11)
Max Uplift 5=-4(LC 13), 6=-22(LC 12)
Max Grav 5=213(LC 1), 6=296(LC 1)

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-6-8, Exterior(2) 3-6-8 to 5-7-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6.

July 16,2022

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Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	E01	JACK	5	1	I53118239
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:16 2022 Page 1
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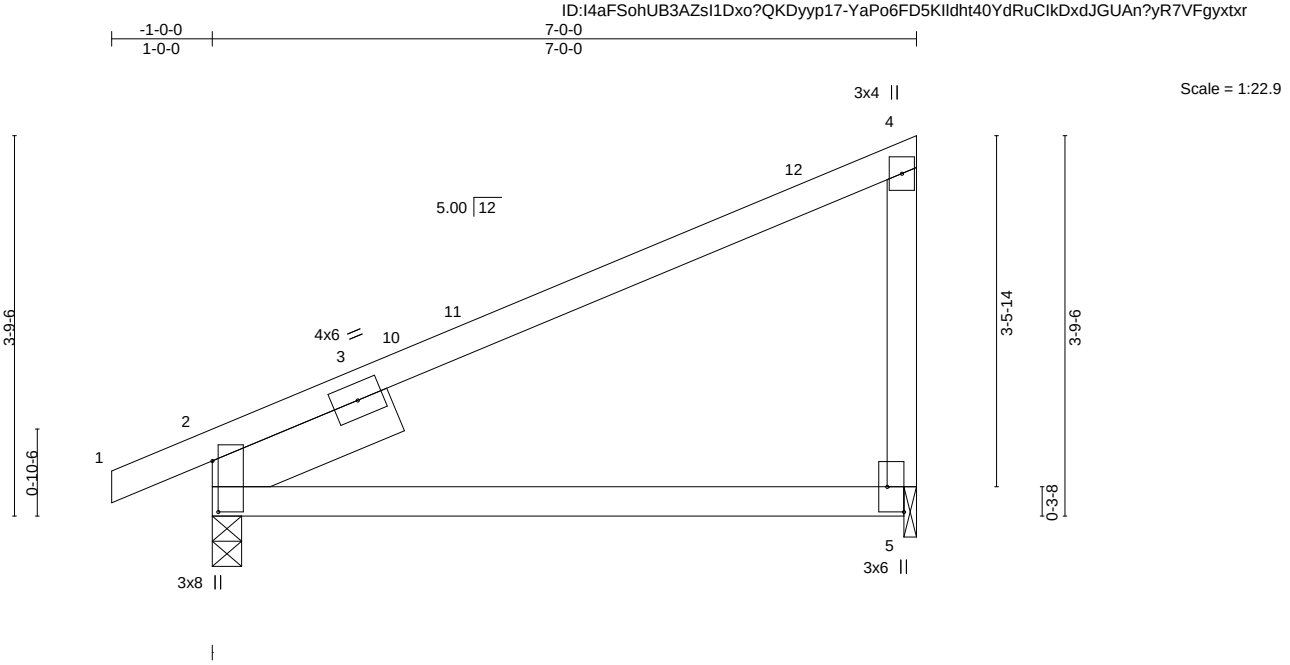

Plate Offsets (X,Y)-- [2:0-6-1,0-0-11], [5:Edge,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.06	5-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.15	5-8	>552	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.07	5-8	>999	240	Weight: 33 lb	FT = 20%

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

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) 2=0-3-8, 5=0-1-8
Max Horz 2=113(LC 11)
Max Uplift 2=-24(LC 12), 5=-29(LC 12)
Max Grav 2=339(LC 1), 5=270(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-311/44

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

July 16,2022

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Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	J01-1PL	MONO HIP	2	1	I53118240
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:17 2022 Page 1
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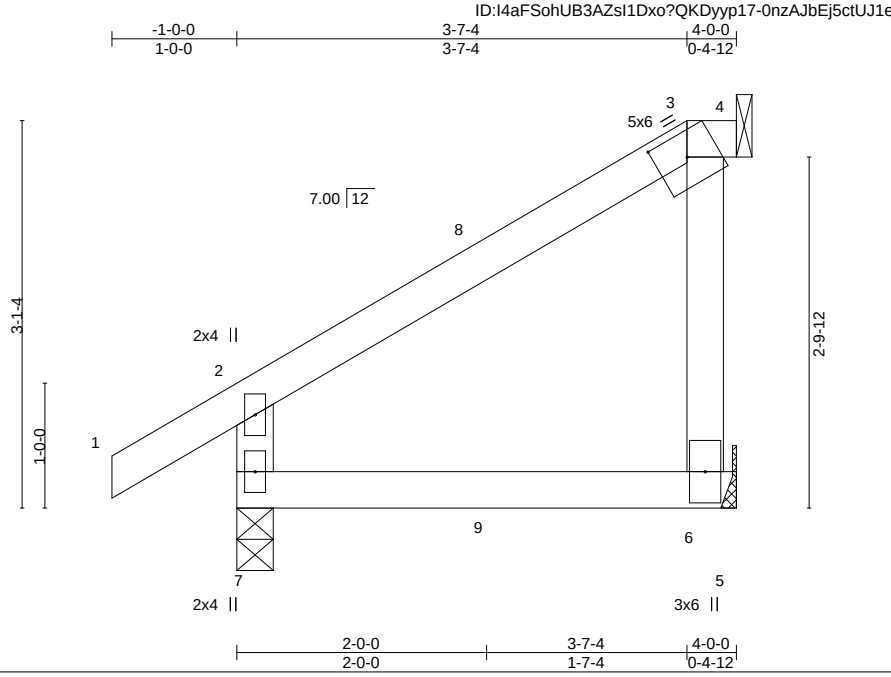

Plate Offsets (X,Y)-- [3:0-3-0,0-2-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.01	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.02	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.53	Horz(CT)	-0.09	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.01	6-7	>999	240	Weight: 19 lb	FT = 20%

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

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

REACTIONS. (size) 7=0-3-8, 6=Mechanical, 3=Mechanical
Max Horz 7=72(LC 8)
Max Uplift 7=-42(LC 8), 6=-942(LC 27), 3=-418(LC 6)
Max Grav 7=231(LC 1), 6=469(LC 6), 3=973(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-442/982

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 6=942, 3=418.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 50 lb down and 44 lb up at 2-0-12 on top chord, and 34 lb down and 24 lb up at 2-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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
1) 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, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-10(F) 9=-34(F)

July 16,2022

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	J01T-1PL	MONO HIP	1	1	I53118241
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:18 2022 Page 1
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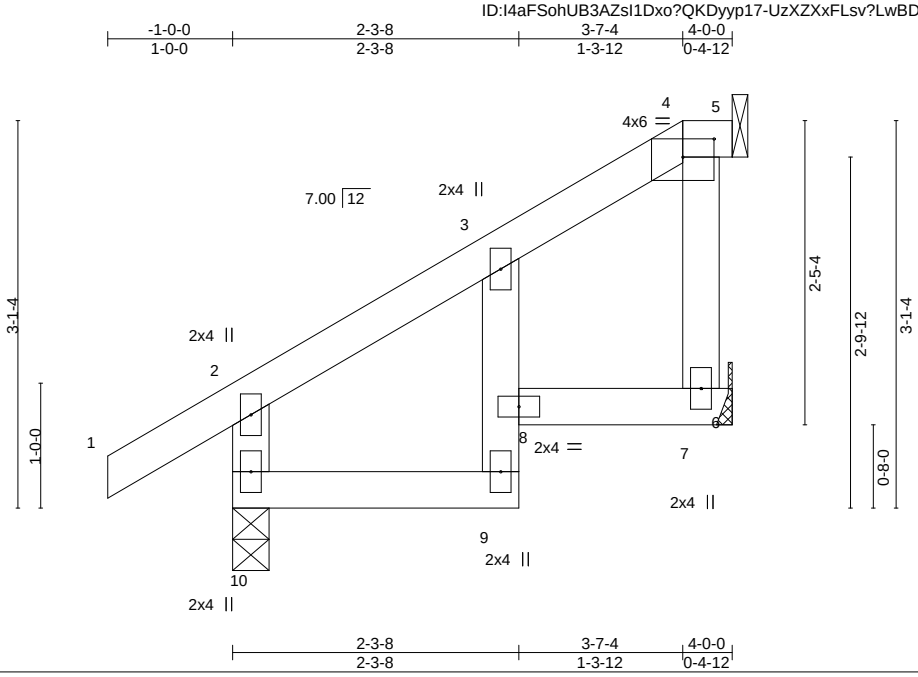

Plate Offsets (X,Y)-- [4:0-3-0,0-1-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.02	9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.04	9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	9	>999	240	Weight: 21 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-8, 7=Mechanical, 4=Mechanical
Max Horz 10=72(LC 8)
Max Uplift 10=-7(LC 8), 7=-91(LC 8), 4=-11(LC 6)
Max Grav 10=239(LC 1), 7=116(LC 3), 4=87(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7, 4.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 50 lb down and 44 lb up at 2-0-12 on top chord, and 34 lb down and 24 lb up at 2-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-4=-60, 4-5=-60, 6-8=-20, 9-10=-20
Concentrated Loads (lb)
Vert: 8=-34(F) 3=-10(F)

July 16,2022

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	J02	MONO HIP	3	1	I53118242
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:19 2022 Page 1
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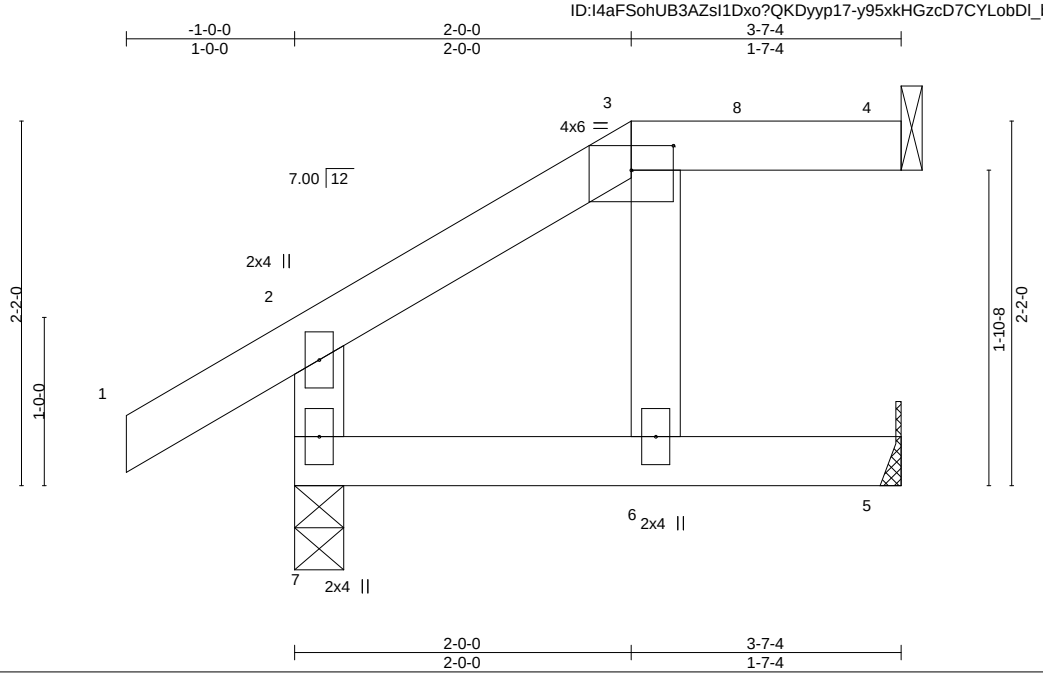

Plate Offsets (X,Y)-- [3:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.01	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.01	6	>999	240	Weight: 16 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-4 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 7=43(LC 12)
Max Uplift 7=-15(LC 12), 4=-15(LC 9), 5=-4(LC 12)
Max Grav 7=216(LC 1), 4=70(LC 1), 5=58(LC 3)

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

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

July 16,2022

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	J03	JACK	21	1	I53118243
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:19 2022 Page 1
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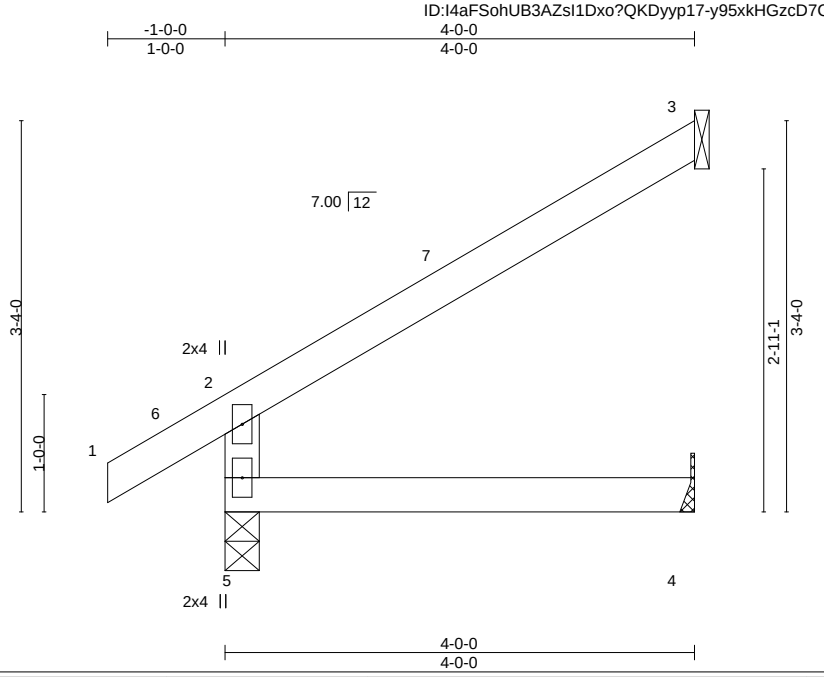


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.01	4-5	>999	240	Weight: 16 lb	FT = 20%

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

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=78(LC 12)
Max Uplift 3=-53(LC 12)
Max Grav 5=231(LC 1), 3=104(LC 19), 4=72(LC 3)

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

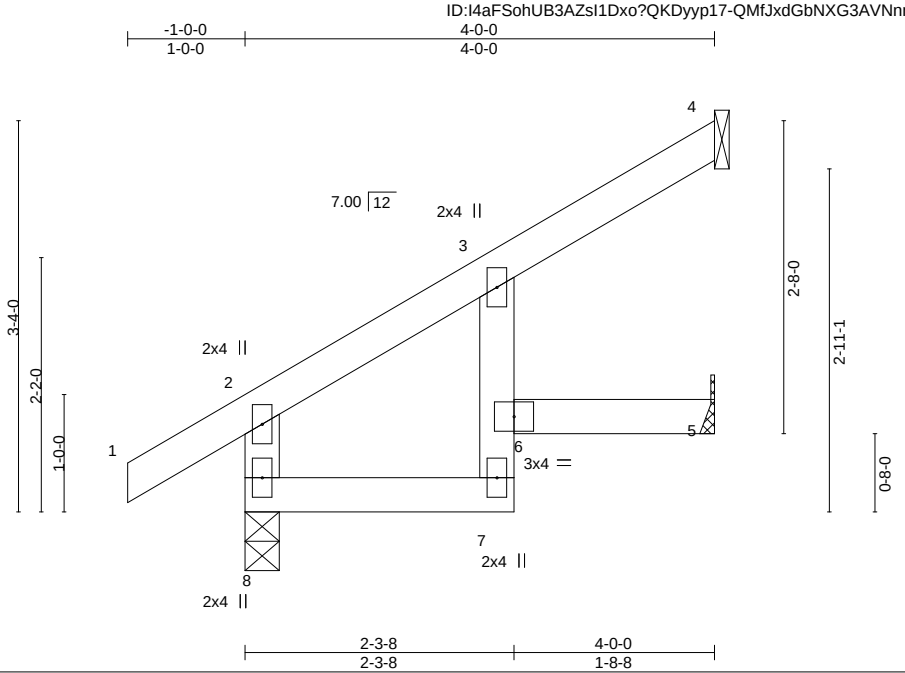
NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members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

July 16,2022

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

Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES/REDWOOD/FRENCH COUNTRY
MASTER_FRENCH	J03T	JACK	5	1	I53118244
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jul 15 07:50:20 2022 Page 1
ID:I4aFSohUB3AZsI1Dxo?QKDyyp17-QMfJxdGbNXG3AVNnnSVqM8v0lFkYQzmbt35iORyxtxn



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.01	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.01	6	>999	240	Weight: 18 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 8=0-3-8
Max Horz 8=91(LC 9)
Max Uplift 4=-35(LC 12), 5=-5(LC 12), 8=-2(LC 12)
Max Grav 4=95(LC 19), 5=62(LC 19), 8=231(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-1-12, Interior(1) 2-1-12 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 8.

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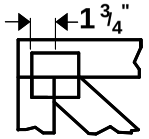
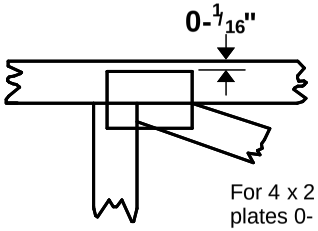
Symbols

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.

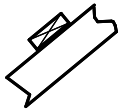
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

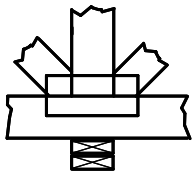
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

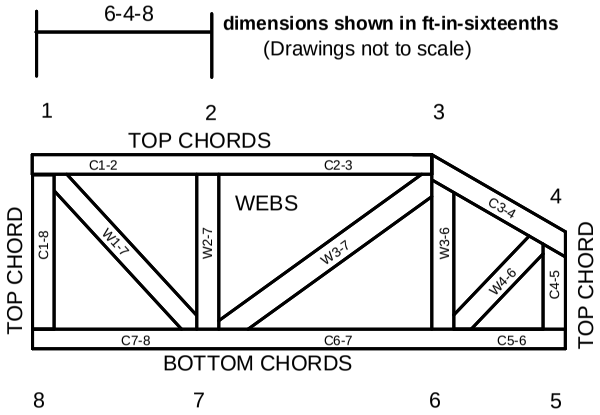


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
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/TPI 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.