ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: MasterEuroTray130
McKee-Clark

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: I44760240 thru I44760295

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844

February 11,2021

Sevier, Scott

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	McKee-Clark
MASTEREUROTRAY130	A04	ATTIC	8	1	I44760240
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:05 2021 Page 1
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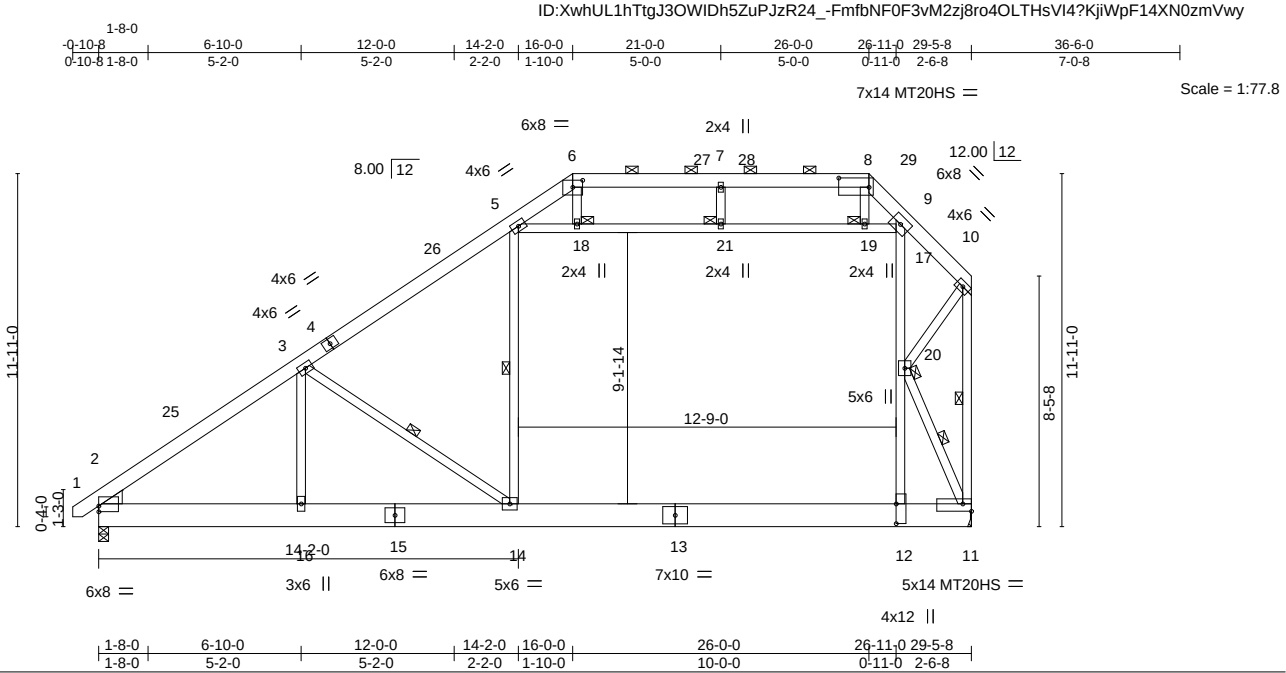

Plate Offsets (X,Y)-- [2:0-0-0,0-2-5], [6:0-4-0,0-2-13], [8:1-0-4,0-3-12], [11:Edge,0-3-0], [12:0-8-0,0-0-0], [17:0-1-4,0-1-4]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.38	14	>933	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.75	14	>470	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.31	14-16	>999	240	Weight: 296 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.3 *Except*
10-11,5-14,9-12,5-17: 2x4 SP No.2
WEDGE
Left: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 4-3-13 oc bracing.
WEBS 1 Row at midpt 3-14, 10-11, 5-14, 11-20
JOINTS 1 Brace at Jt(s): 18, 19, 20, 21

REACTIONS. (size) 2=0-4-0, 11=Mechanical
Max Horz 2=312(LC 11)
Max Uplift 2=-59(LC 12)
Max Grav 2=1168(LC 20), 11=1514(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1669/84, 3-5=-1064/65, 5-6=-540/199, 6-7=-470/175, 7-8=-470/175, 8-9=-726/158, 9-10=-901/121, 10-11=-1512/49
BOT CHORD 2-16=-220/1464, 14-16=-220/1464, 12-14=-68/841, 11-12=-67/854
WEBS 3-16=-27/452, 3-14=-766/266, 5-14=-130/259, 12-20=-33/2919, 9-17=-328/219, 5-18=-534/25, 18-21=-528/25, 19-21=-528/25, 17-19=-552/27, 8-19=-29/300, 11-20=-2017/25, 10-20=-29/1249

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-9 to 2-3-7, Interior(1) 2-3-7 to 16-0-0, Exterior(2) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 26-0-0, Exterior(2) 26-0-0 to 29-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Ceiling dead load (5.0 psf) on member(s). 5-18, 18-21, 19-21, 17-19; Wall dead load (5.0psf) on member(s).5-14, 12-20, 17-20
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
9) Refer to girder(s) for truss to truss connections.
10) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
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.
13) Attic room checked for L/360 deflection.

February 11,2021

Continued on page 2

LOAD CASE(S) Standard

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-48, 6-8=-48, 8-10=-48, 14-22=-16, 12-14=-24, 11-12=-16, 5-17=-8
   Drag: 5-14=-8, 12-17=-8
2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-40, 6-8=-40, 8-10=-40, 14-22=-16, 12-14=-72, 11-12=-16, 5-17=-8
   Drag: 5-14=-8, 12-17=-8
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-6=-16, 6-8=-16, 8-10=-16, 14-22=-32, 12-14=-24, 11-12=-32, 5-17=-8
   Drag: 5-14=-8, 12-17=-8
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=36, 2-25=20, 6-25=15, 6-27=23, 8-27=18, 8-10=20, 14-22=-10, 12-14=-14, 11-12=-10, 5-17=-5
   Horz: 1-2=-45, 2-25=-30, 6-25=-25, 8-10=30, 10-11=26
   Drag: 5-14=-8, 12-17=-8
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=11, 2-26=15, 6-26=20, 6-28=18, 8-28=23, 8-29=15, 10-29=20, 14-22=-10, 12-14=-14, 11-12=-10, 5-17=-5
   Horz: 1-2=-20, 2-26=-25, 6-26=-30, 8-29=25, 10-29=30, 10-11=-14
   Drag: 5-14=-8, 12-17=-8
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=4, 2-6=-41, 6-8=-26, 8-10=-41, 14-22=-16, 12-14=-24, 11-12=-16, 5-17=-8
   Horz: 1-2=-20, 2-6=25, 8-10=-25, 10-11=-23
   Drag: 5-14=-8, 12-17=-8
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=-36, 2-6=-41, 6-8=-26, 8-10=-41, 14-22=-16, 12-14=-24, 11-12=-16, 5-17=-8
   Horz: 1-2=20, 2-6=25, 8-10=-25, 10-11=17
   Drag: 5-14=-8, 12-17=-8
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-1, 2-6=-12, 6-8=22, 8-10=8, 14-22=-10, 12-14=-14, 11-12=-10, 5-17=-5
   Horz: 1-2=-8, 2-6=2, 8-10=18, 10-11=17
   Drag: 5-14=-8, 12-17=-8
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=4, 2-6=8, 6-8=22, 8-10=-12, 14-22=-10, 12-14=-14, 11-12=-10, 5-17=-5
   Horz: 1-2=-13, 2-6=-18, 8-10=-2, 10-11=-13
   Drag: 5-14=-8, 12-17=-8
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-23, 2-6=-27, 6-8=6, 8-10=-7, 14-22=-16, 12-14=-24, 11-12=-16, 5-17=-8
    Horz: 1-2=7, 2-6=11, 8-10=9, 10-11=8
    Drag: 5-14=-8, 12-17=-8
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-3, 2-6=-7, 6-8=6, 8-10=-27, 14-22=-16, 12-14=-24, 11-12=-16, 5-17=-8
    Horz: 1-2=-13, 2-6=-9, 8-10=-11, 10-11=-22
    Drag: 5-14=-8, 12-17=-8
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=17, 2-6=22, 6-7=22, 7-8=8, 8-10=8, 14-22=-10, 12-14=-14, 11-12=-10, 5-17=-5
    Horz: 1-2=-27, 2-6=-31, 8-10=18, 10-11=15
    Drag: 5-14=-8, 12-17=-8
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=4, 2-6=8, 6-7=8, 7-8=22, 8-10=22, 14-22=-10, 12-14=-14, 11-12=-10, 5-17=-5
    Horz: 1-2=-13, 2-6=-18, 8-10=31, 10-11=-11
    Drag: 5-14=-8, 12-17=-8
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=8, 2-6=12, 6-7=12, 7-8=4, 8-10=4, 14-22=-10, 12-14=-14, 11-12=-10, 5-17=-5
    Horz: 1-2=-17, 2-6=-22, 8-10=14, 10-11=12
    Drag: 5-14=-8, 12-17=-8
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-0, 2-6=4, 6-7=4, 7-8=12, 8-10=12, 14-22=-10, 12-14=-14, 11-12=-10, 5-17=-5
    Horz: 1-2=-9, 2-6=-14, 8-10=22, 10-11=-6
    Drag: 5-14=-8, 12-17=-8
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=11, 2-6=6, 6-7=6, 7-8=-7, 8-10=-7, 14-22=-16, 12-14=-24, 11-12=-16, 5-17=-8
Horz: 1-2=-27, 2-6=-22, 8-10=9, 10-11=6
Drag: 5-14=-8, 12-17=-8

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-6=-7, 6-7=-7, 7-8=6, 8-10=6, 14-22=-16, 12-14=-24, 11-12=-16, 5-17=-8
Horz: 1-2=-13, 2-6=-9, 8-10=22, 10-11=-20
Drag: 5-14=-8, 12-17=-8

18) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-6=-16, 6-8=-16, 8-10=-16, 14-22=-16, 12-14=-88, 11-12=-16, 5-17=-8
Drag: 5-14=-8, 12-17=-8

19) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-6=-16, 6-8=-16, 8-10=-16, 14-22=-16, 12-14=-88, 11-12=-16, 5-17=-8
Drag: 5-14=-8, 12-17=-8

20) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-45, 2-6=-48, 6-8=-23, 8-10=-33, 14-22=-16, 12-14=-72, 11-12=-16, 5-17=-8
Horz: 1-2=5, 2-6=8, 8-10=7, 10-11=6
Drag: 5-14=-8, 12-17=-8

21) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-6=-33, 6-8=-23, 8-10=-48, 14-22=-16, 12-14=-72, 11-12=-16, 5-17=-8
Horz: 1-2=-10, 2-6=-7, 8-10=-8, 10-11=-16
Drag: 5-14=-8, 12-17=-8

22) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-20, 2-6=-23, 6-7=-23, 7-8=-33, 8-10=-33, 14-22=-16, 12-14=-72, 11-12=-16, 5-17=-8
Horz: 1-2=-20, 2-6=-17, 8-10=7, 10-11=5
Drag: 5-14=-8, 12-17=-8

23) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-6=-33, 6-7=-33, 7-8=-23, 8-10=-23, 14-22=-16, 12-14=-72, 11-12=-16, 5-17=-8
Horz: 1-2=-10, 2-6=-7, 8-10=17, 10-11=-15
Drag: 5-14=-8, 12-17=-8

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-48, 6-8=-48, 8-10=-16, 14-22=-16, 12-14=-24, 11-12=-16, 5-17=-8
Drag: 5-14=-8, 12-17=-8

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-16, 6-8=-48, 8-10=-48, 14-22=-16, 12-14=-24, 11-12=-16, 5-17=-8
Drag: 5-14=-8, 12-17=-8

26) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-40, 6-8=-40, 8-10=-16, 14-22=-16, 12-14=-72, 11-12=-16, 5-17=-8
Drag: 5-14=-8, 12-17=-8

27) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-16, 6-8=-40, 8-10=-40, 14-22=-16, 12-14=-72, 11-12=-16, 5-17=-8
Drag: 5-14=-8, 12-17=-8

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	A04G	GABLE	1	1	I44760241
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:15 2021 Page 1
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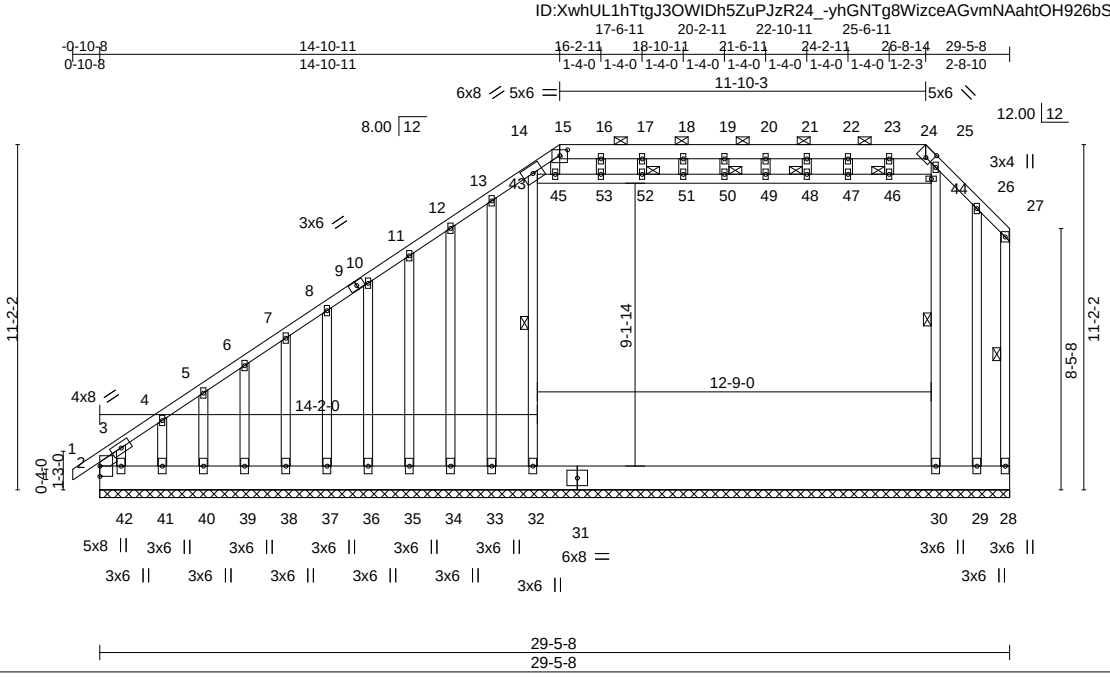

Plate Offsets (X,Y)-- [15:0-3-0,0-2-3], [24:0-2-8,Edge], [43:0-1-0,0-1-7]

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	0.84	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.55	Horz(CT)	-0.00	28	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 327 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.1 *Except* 15-24: 2x6 SP No.2, 1-9: 2x4 SP No.2
BOT CHORD	2x10 SP DSS
WEBS	2x4 SP No.3 *Except* 27-28,14-32,25-30,43-44: 2x4 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.2 0-8-11

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 15-24.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 29-30,28-29.
WEBS	1 Row at midpt 27-28, 14-32, 25-30
JOINTS	1 Brace at Jt(s): 46, 48, 50, 52

REACTIONS. All bearings 29-5-8.
(lb) - Max Horz 2=371(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 28, 35, 36, 37, 38, 39, 40, 41 except 32=-159(LC 9), 33=-1034(LC 26), 42=-301(LC 9), 30=-157(LC 9), 29=-1151(LC 25), 2=-294(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 35, 36, 37, 38, 39, 40, 41, 29 except 28=318(LC 20), 32=1614(LC 25), 34=327(LC 19), 42=259(LC 10), 30=1631(LC 2), 2=483(LC 9)

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

TOP CHORD	2-3=-571/524, 3-4=-382/358, 4-5=-332/314, 5-6=-295/284, 6-7=-264/250, 7-8=-252/217, 14-15=-438/383, 15-16=-257/274, 16-17=-258/275, 17-18=-258/275, 18-19=-258/275, 19-20=-258/275, 20-21=-258/275, 21-22=-258/275, 22-23=-258/275, 23-24=-255/273, 24-25=-416/329, 25-26=-239/266, 26-27=-263/298, 27-28=-258/278
WEBS	32-43=-770/397, 14-43=-876/436, 13-33=-154/315, 3-42=-261/259, 30-44=-768/387, 25-44=-794/397, 26-29=-178/359

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-6 to 2-0-4, Exterior(2) 2-0-4 to 14-10-11, Corner(3) 14-10-11 to 17-10-11, Exterior(2) 17-10-11 to 26-8-14, Corner(3) 26-8-14 to 29-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

NORTH CAROLINA PROFESSIONAL SEAL 044925 ENGINEER SCOTT M. SEVIER

February 11,2021

Continued on page 2

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Edenton, NC 27932

NOTES-

10) N/A

11) N/A

12) N/A

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
15) Double installations of RT7A require the two hurricane ties to be installed on opposite sides of top plate to avoid nail interference in single ply truss.

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	A08	GABLE	1	1	I44760242
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:17 2021 Page 1
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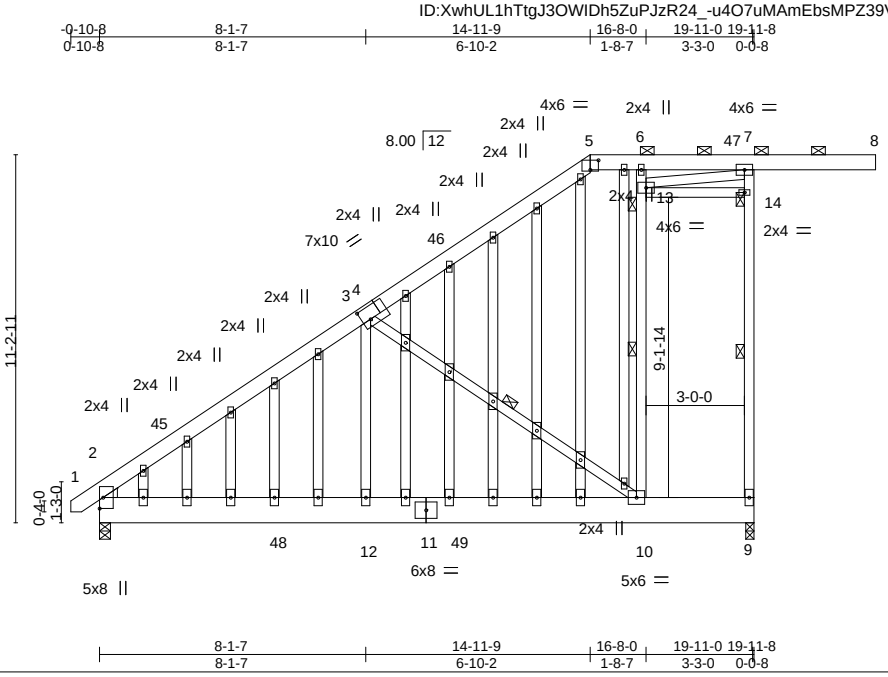

Plate Offsets (X,Y)-- [2:0-0-14,0-4-13], [2:0-0-7,0-0-10], [4:0-3-0,0-4-8], [4:0-0-0,0-2-12], [5:0-3-0,0-3-8]

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	0.53	Vert(LL)	-0.12	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.25	10-12	>937	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.14	10-12	>999	240	Weight: 299 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 8-11-9 oc bracing.
WEBS 1 Row at midpt 3-10, 9-14, 10-13
JOINTS 1 Brace at Jt(s): 13, 14

REACTIONS. (size) 2=0-4-0, 9=0-3-0
Max Horz 2=410(LC 12)
Max Uplift 2=-33(LC 12), 9=-170(LC 9)
Max Grav 2=894(LC 20), 9=1184(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1129/35
BOT CHORD 2-12=-298/939, 10-12=-298/939
WEBS 3-12=-15/678, 3-10=-1129/360, 9-14=-511/262, 7-14=-506/262, 7-13=-58/269

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-9 to 2-3-7, Interior(1) 2-3-7 to 14-11-9, Exterior(2) 14-11-9 to 19-2-8, Interior(1) 19-2-8 to 23-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
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.
12) Attic room checked for L/360 deflection.
13) 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

February 11,2021

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-60, 5-8=-60, 10-42=-20, 9-10=-60(F=-40)
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, 42-48=-20, 48-49=-50, 10-49=-20, 9-10=-90(F=-40)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-20, 5-8=-20, 10-42=-40, 9-10=-80(F=-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=45, 2-45=25, 5-45=19, 5-47=28, 7-47=22, 7-8=16, 10-42=-12, 9-10=-52(F=-40)
   Horz: 1-2=-57, 2-45=-37, 5-45=-31
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=13, 2-46=19, 5-46=25, 5-7=22, 7-8=36, 10-42=-12, 9-10=-52(F=-40)
   Horz: 1-2=-25, 2-46=-31, 5-46=-37
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=5, 2-5=-51, 5-7=-32, 7-8=-26, 10-42=-20, 9-10=-60(F=-40)
   Horz: 1-2=-25, 2-5=31
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=-45, 2-5=-51, 5-7=-32, 7-8=-14, 10-42=-20, 9-10=-60(F=-40)
   Horz: 1-2=25, 2-5=31
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-2, 2-5=-15, 5-7=27, 7-8=5, 10-42=-12, 9-10=-52(F=-40)
   Horz: 1-2=-10, 2-5=3
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=5, 2-5=10, 5-7=27, 7-8=40, 10-42=-12, 9-10=-52(F=-40)
   Horz: 1-2=-17, 2-5=-22
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-29, 2-5=-34, 5-7=8, 7-8=-3, 10-42=-20, 9-10=-60(F=-40)
    Horz: 1-2=9, 2-5=14
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-3, 2-5=-9, 5-7=8, 7-8=14, 10-42=-20, 9-10=-60(F=-40)
    Horz: 1-2=-17, 2-5=-11
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=22, 2-5=27, 5-7=10, 7-8=5, 10-42=-12, 9-10=-52(F=-40)
    Horz: 1-2=-34, 2-5=-39
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=5, 2-5=10, 5-7=10, 7-8=22, 10-42=-12, 9-10=-52(F=-40)
    Horz: 1-2=-17, 2-5=-22
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=10, 2-5=15, 5-7=5, 7-8=-0, 10-42=-12, 9-10=-52(F=-40)
    Horz: 1-2=-22, 2-5=-27
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-0, 2-5=5, 5-7=5, 7-8=10, 10-42=-12, 9-10=-52(F=-40)
    Horz: 1-2=-12, 2-5=-17
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=14, 2-5=8, 5-7=-9, 7-8=-3, 10-42=-20, 9-10=-60(F=-40)
    Horz: 1-2=-34, 2-5=-28
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-3, 2-5=-9, 5-7=-9, 7-8=14, 10-42=-20, 9-10=-60(F=-40)
    Horz: 1-2=-17, 2-5=-11
18) Dead + Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
    Uniform Loads (plf)
    Vert: 1-5=-20, 5-8=-20, 42-48=-20, 48-49=-60, 10-49=-20, 9-10=-100(F=-40)
19) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
    Uniform Loads (plf)
    Vert: 1-5=-20, 5-8=-20, 42-48=-20, 48-49=-60, 10-49=-20, 9-10=-100(F=-40)
20) 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

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=-56, 2-5=-61, 5-7=-29, 7-8=-37, 42-48=-20, 48-49=-50, 10-49=-20, 9-10=-90(F=-40)
Horz: 1-2=6, 2-5=11

21) 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=-37, 2-5=-42, 5-7=-29, 7-8=-25, 42-48=-20, 48-49=-50, 10-49=-20, 9-10=-90(F=-40)
Horz: 1-2=-13, 2-5=-8

22) 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=-25, 2-5=-29, 5-7=-42, 7-8=-37, 42-48=-20, 48-49=-50, 10-49=-20, 9-10=-90(F=-40)
Horz: 1-2=-25, 2-5=-21

23) 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=-37, 2-5=-42, 5-7=-42, 7-8=-25, 42-48=-20, 48-49=-50, 10-49=-20, 9-10=-90(F=-40)
Horz: 1-2=-13, 2-5=-8

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-8=-60, 10-42=-20, 9-10=-60(F=-40)

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-20, 5-8=-60, 10-42=-20, 9-10=-60(F=-40)

26) 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, 42-48=-20, 48-49=-50, 10-49=-20, 9-10=-90(F=-40)

27) 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, 42-48=-20, 48-49=-50, 10-49=-20, 9-10=-90(F=-40)

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	A09	MONO TRUSS	3	1	I44760243
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:18 2021 Page 1

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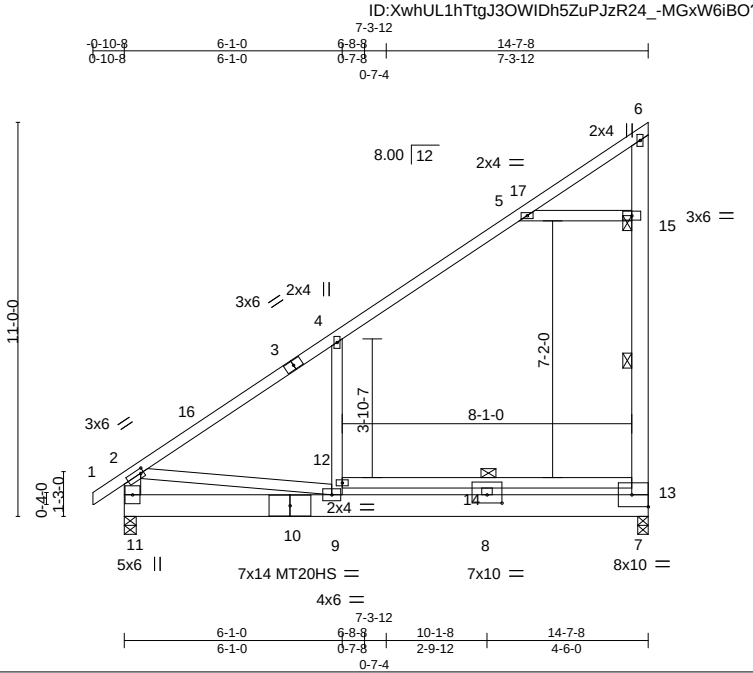

Plate Offsets (X,Y)-- [2:0-1-0,0-1-8], [7:0-2-12,0-0-0], [7:Edge,0-4-0], [8:0-5-0,0-2-12], [13:0-0-0,0-1-12]

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 0.49		Vert(LL)	-0.30	8-9	>562	360	MT20	244/190
TCDL 10.0		Lumber DOL 1.15	BC 0.54		Vert(CT)	-0.57	8-9	>297	240	MT20HS	187/143
BCLL 0.0	*	Rep Stress Incr NO	WB 0.94		Horz(CT)	-0.00	7	n/a	n/a		
BCDL 10.0		Code IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.39	8-9	>435	240	Weight: 129 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x8 SP DSS
WEBS	2x4 SP No.3 *Except* 2-11,6-7: 2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-9-1 oc bracing.
WEBS	1 Row at midpt 7-15, 12-13
JOINTS	1 Brace at Jt(s): 15

REACTIONS. (size) 11=0-4-0, 7=0-3-8
Max Horz 11=384(LC 12)
Max Uplift 7=-257(LC 12)
Max Grav 11=651(LC 19), 7=743(LC 19)

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

TOP CHORD	2-11=-260/39, 2-4=-336/178, 5-6=-299/473
BOT CHORD	9-11=-568/828
WEBS	7-13=-401/216, 13-15=-332/208, 6-15=-332/208, 9-12=-366/269, 4-12=-318/261, 5-15=-459/257, 2-9=-743/523

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-6 to 2-1-10, Interior(1) 2-1-10 to 14-4-12 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 MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
7) N/A

8) 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, 2-6=-60, 7-11=-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, 7-11=-20, 12-13=-23(F)

February 11,2021

Continued on page 2

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LOAD CASE(S) Standard

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-6=-20, 7-11=-40, 12-13=-30(F)

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, 7-11=-20, 12-13=-30(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-56, 2-6=-61, 7-11=-20, 12-13=-23(F)
Horz: 2-11=21, 1-2=6, 2-6=11

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=-37, 2-6=-42, 7-11=-20, 12-13=-23(F)
Horz: 2-11=-7, 1-2=-13, 2-6=-8

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=-25, 2-6=-29, 7-11=-20, 12-13=-23(F)
Horz: 2-11=19, 1-2=-25, 2-6=-21

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=-37, 2-6=-42, 7-11=-20, 12-13=-23(F)
Horz: 2-11=-6, 1-2=-13, 2-6=-8

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, 7-11=-20, 12-13=-23(F)

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-6=-20, 7-11=-20, 12-13=-23(F)

Job	Truss	Truss Type	Qty	Ply	McKee-Clark	I44760244
MASTEREUROTRAY130	A13	ATTIC	8	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:19 2021 Page 1
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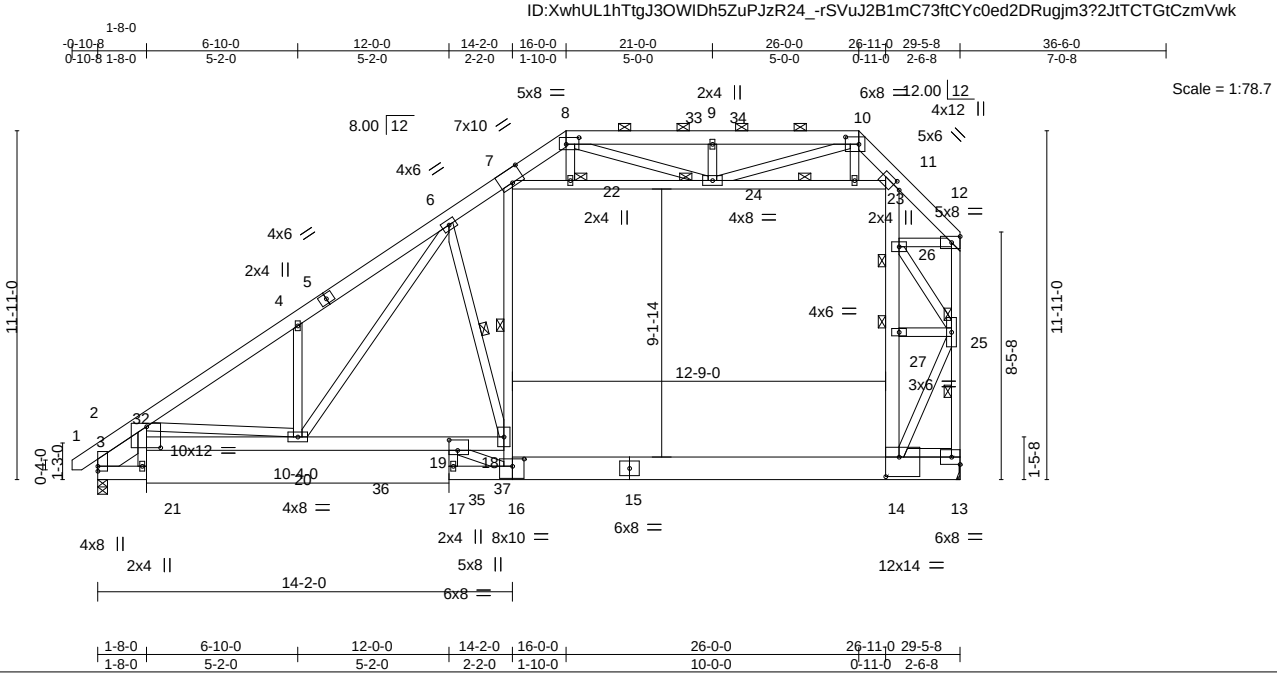

Plate Offsets (X,Y)-- [3:0-5-12,0-8-10], [7:0-5-0,Edge], [8:0-5-4,0-2-12], [10:0-5-8,0-3-0], [11:0-3-2,0-2-0], [14:0-5-8,0-8-0], [16:0-4-12,0-3-0], [19:0-3-8,0-4-4]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.48	19	>734	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.92	17	>381	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.20	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.37	17	>950	240	Weight: 335 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP DSS *Except* 8-10,1-5: 2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 15-16,13-15: 2x10 SP DSS, 3-18: 2x6 SP DSS, 13-14: 2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 12-13,7-16,7-11,3-21: 2x4 SP No.2, 11-14: 2x6 SP No.2
SLIDER	Left 2x8 SP DSS 1-9-7

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-0-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-10.
BOT CHORD	Rigid ceiling directly applied or 2-9-6 oc bracing.
WEBS	1 Row at midpt 7-16, 11-24, 6-18 2 Rows at 1/3 pts 12-13
JOINTS	1 Brace at Jt(s): 22, 24, 26, 27

REACTIONS. (size) 2=0-4-0, 13=Mechanical
Max Horz 2=312(LC 11)
Max Uplift 2=-59(LC 12)
Max Grav 2=1222(LC 20), 13=1538(LC 2)

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

TOP CHORD	3-29=-582/103, 3-4=-2178/106, 4-6=-2240/256, 6-7=-1468/107, 7-8=-978/162, 8-9=-821/230, 9-10=-821/230, 10-11=-386/167, 11-12=-754/99, 13-25=-3296/12, 12-25=-329/93
BOT CHORD	14-16=-80/890, 3-20=-279/1906, 19-20=-138/1247, 18-19=-44/354
WEBS	4-20=-340/221, 16-18=-859/273, 7-18=-85/1273, 14-27=-27/920, 26-27=-21/953, 11-26=-581/199, 10-23=-4/257, 7-22=-194/442, 22-24=-188/437, 23-24=-1288/123, 11-23=-1330/125, 3-21=-103/267, 17-19=-110/443, 14-25=-102/2057, 25-26=-1495/59, 12-26=-42/919, 6-20=-275/1218, 6-18=-1371/284, 16-19=-117/997, 8-24=-608/15, 10-24=-199/1130

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-9 to 2-3-7, Interior(1) 2-3-7 to 16-0-0, Exterior(2) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 26-0-0, Exterior(2) 26-0-0 to 29-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Ceiling dead load (5.0 psf) on member(s). 7-22, 22-24, 23-24, 11-23, 25-27; Wall dead load (5.0psf) on member(s).16-18, 7-18, 26-27, 11-26
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-16
8) Refer to girder(s) for truss to truss connections.
9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

February 11,2021

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

NOTES-

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.
12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-48, 8-10=-48, 10-12=-48, 21-28=-16, 16-17=-16, 14-16=-24, 13-14=-16, 7-11=-8, 3-19=-16, 25-27=-8
   Drag: 7-16=-8, 11-27=-8
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-40, 8-10=-40, 10-12=-40, 21-28=-16, 17-35=-40, 16-35=-16, 15-16=-72, 14-15=-72, 13-14=-16, 7-11=-8, 3-36=-16, 19-36=-40, 19-37=-24, 25-27=-8
   Drag: 7-16=-8, 11-27=-8
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-8=-16, 8-10=-16, 10-12=-16, 21-28=-32, 16-17=-32, 14-16=-24, 13-14=-32, 7-11=-8, 3-20=-32, 19-20=-32, 25-27=-8
   Drag: 7-16=-8, 11-27=-8
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=36, 2-32=20, 8-32=15, 8-33=23, 10-33=18, 10-12=20, 21-28=-10, 16-17=-10, 14-16=-14, 13-14=-10, 7-11=-5, 3-19=-10, 25-27=-5
   Horz: 1-2=-45, 2-32=-30, 8-32=-25, 10-12=30, 12-13=26
   Drag: 7-16=-8, 11-27=-8
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=11, 2-6=15, 6-8=20, 8-34=18, 10-34=23, 10-12=15, 21-28=-10, 16-17=-10, 14-16=-14, 13-14=-10, 7-11=-5, 3-19=-10, 25-27=-5
   Horz: 1-2=-20, 2-6=-25, 6-8=-30, 10-12=25, 12-13=-14
   Drag: 7-16=-8, 11-27=-8
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=4, 2-8=-41, 8-10=-26, 10-12=-41, 21-28=-16, 16-17=-16, 14-16=-24, 13-14=-16, 7-11=-8, 3-19=-16, 25-27=-8
   Horz: 1-2=-20, 2-8=25, 10-12=-25, 12-13=-23
   Drag: 7-16=-8, 11-27=-8
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=-36, 2-8=-41, 8-10=-26, 10-12=-41, 21-28=-16, 16-17=-16, 14-16=-24, 13-14=-16, 7-11=-8, 3-19=-16, 25-27=-8
   Horz: 1-2=20, 2-8=25, 10-12=-25, 12-13=17
   Drag: 7-16=-8, 11-27=-8
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-1, 2-8=-12, 8-10=22, 10-12=8, 21-28=-10, 16-17=-10, 14-16=-14, 13-14=-10, 7-11=-5, 3-19=-10, 25-27=-5
   Horz: 1-2=-8, 2-8=2, 10-12=18, 12-13=17
   Drag: 7-16=-8, 11-27=-8
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=4, 2-8=8, 8-10=22, 10-12=-12, 21-28=-10, 16-17=-10, 14-16=-14, 13-14=-10, 7-11=-5, 3-19=-10, 25-27=-5
   Horz: 1-2=-13, 2-8=-18, 10-12=-2, 12-13=-13
   Drag: 7-16=-8, 11-27=-8
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-23, 2-8=-27, 8-10=6, 10-12=-7, 21-28=-16, 16-17=-16, 14-16=-24, 13-14=-16, 7-11=-8, 3-19=-16, 25-27=-8
   Horz: 1-2=7, 2-8=11, 10-12=9, 12-13=8
   Drag: 7-16=-8, 11-27=-8
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-3, 2-8=-7, 8-10=6, 10-12=-27, 21-28=-16, 16-17=-16, 14-16=-24, 13-14=-16, 7-11=-8, 3-19=-16, 25-27=-8
   Horz: 1-2=-13, 2-8=-9, 10-12=-11, 12-13=-22
   Drag: 7-16=-8, 11-27=-8
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=17, 2-8=22, 8-9=22, 9-10=8, 10-12=8, 21-28=-10, 16-17=-10, 14-16=-14, 13-14=-10, 7-11=-5, 3-19=-10, 25-27=-5
   Horz: 1-2=-27, 2-8=-31, 10-12=18, 12-13=15
   Drag: 7-16=-8, 11-27=-8
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=4, 2-8=8, 8-9=8, 9-10=22, 10-12=22, 21-28=-10, 16-17=-10, 14-16=-14, 13-14=-10, 7-11=-5, 3-19=-10, 25-27=-5
   Horz: 1-2=-13, 2-8=-18, 10-12=31, 12-13=-11
   Drag: 7-16=-8, 11-27=-8
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=8, 2-8=12, 8-9=12, 9-10=4, 10-12=4, 21-28=-10, 16-17=-10, 14-16=-14, 13-14=-10, 7-11=-5, 3-19=-10, 25-27=-5
   Horz: 1-2=-17, 2-8=-22, 10-12=14, 12-13=12
   Drag: 7-16=-8, 11-27=-8
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=-0, 2-8=4, 8-9=4, 9-10=12, 10-12=12, 21-28=-10, 16-17=-10, 14-16=-14, 13-14=-10, 7-11=-5, 3-19=-10, 25-27=-5
Horz: 1-2=-9, 2-8=-14, 10-12=22, 12-13=-6
Drag: 7-16=-8, 11-27=-8

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-8=6, 8-9=6, 9-10=-7, 10-12=-7, 21-28=-16, 16-17=-16, 14-16=-24, 13-14=-16, 7-11=-8, 3-19=-16, 25-27=-8
Horz: 1-2=-27, 2-8=-22, 10-12=9, 12-13=6
Drag: 7-16=-8, 11-27=-8

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-8=-7, 8-9=-7, 9-10=6, 10-12=6, 21-28=-16, 16-17=-16, 14-16=-24, 13-14=-16, 7-11=-8, 3-19=-16, 25-27=-8
Horz: 1-2=-13, 2-8=-9, 10-12=22, 12-13=-20
Drag: 7-16=-8, 11-27=-8

18) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-8=-16, 8-10=-16, 10-12=-16, 21-28=-16, 17-35=-48, 16-35=-16, 15-16=-88, 14-15=-88, 13-14=-16, 7-11=-8, 3-36=-16, 19-36=-48, 19-37=-32, 25-27=-8
Drag: 7-16=-8, 11-27=-8

19) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-8=-16, 8-10=-16, 10-12=-16, 21-28=-16, 17-35=-48, 16-35=-16, 15-16=-88, 14-15=-88, 13-14=-16, 7-11=-8, 3-36=-16, 19-36=-48, 19-37=-32, 25-27=-8
Drag: 7-16=-8, 11-27=-8

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-45, 2-8=-48, 8-10=-23, 10-12=-33, 21-28=-16, 17-35=-40, 16-35=-16, 15-16=-72, 14-15=-72, 13-14=-16, 7-11=-8, 3-36=-16, 19-36=-40, 19-37=-24, 25-27=-8
Horz: 1-2=5, 2-8=8, 10-12=7, 12-13=6
Drag: 7-16=-8, 11-27=-8

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-8=-33, 8-10=-23, 10-12=-48, 21-28=-16, 17-35=-40, 16-35=-16, 15-16=-72, 14-15=-72, 13-14=-16, 7-11=-8, 3-36=-16, 19-36=-40, 19-37=-24, 25-27=-8
Horz: 1-2=-10, 2-8=-7, 10-12=-8, 12-13=-16
Drag: 7-16=-8, 11-27=-8

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-20, 2-8=-23, 8-9=-23, 9-10=-33, 10-12=-33, 21-28=-16, 17-35=-40, 16-35=-16, 15-16=-72, 14-15=-72, 13-14=-16, 7-11=-8, 3-36=-16, 19-36=-40, 19-37=-24, 25-27=-8
Horz: 1-2=-20, 2-8=-17, 10-12=7, 12-13=5
Drag: 7-16=-8, 11-27=-8

23) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-8=-33, 8-9=-33, 9-10=-23, 10-12=-23, 21-28=-16, 17-35=-40, 16-35=-16, 15-16=-72, 14-15=-72, 13-14=-16
, 7-11=-8, 3-36=-16, 19-36=-40, 19-37=-24, 25-27=-8
Horz: 1-2=-10, 2-8=-7, 10-12=17, 12-13=-15
Drag: 7-16=-8, 11-27=-8

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-48, 8-10=-48, 10-12=-16, 21-28=-16, 16-17=-16, 14-16=-24, 13-14=-16, 7-11=-8, 3-19=-16, 25-27=-8
Drag: 7-16=-8, 11-27=-8

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-16, 8-10=-48, 10-12=-48, 21-28=-16, 16-17=-16, 14-16=-24, 13-14=-16, 7-11=-8, 3-19=-16, 25-27=-8
Drag: 7-16=-8, 11-27=-8

26) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-40, 8-10=-40, 10-12=-16, 21-28=-16, 17-35=-40, 16-35=-16, 15-16=-72, 14-15=-72, 13-14=-16, 7-11=-8, 3-36=-16, 19-36=-40, 19-37=-24, 25-27=-8
Drag: 7-16=-8, 11-27=-8

27) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-16, 8-10=-40, 10-12=-40, 21-28=-16, 17-35=-40, 16-35=-16, 15-16=-72, 14-15=-72, 13-14=-16, 7-11=-8, 3-36=-16, 19-36=-40, 19-37=-24, 25-27=-8
Drag: 7-16=-8, 11-27=-8

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	A14	ATTIC	5	1	I44760245
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:21 2021 Page 1
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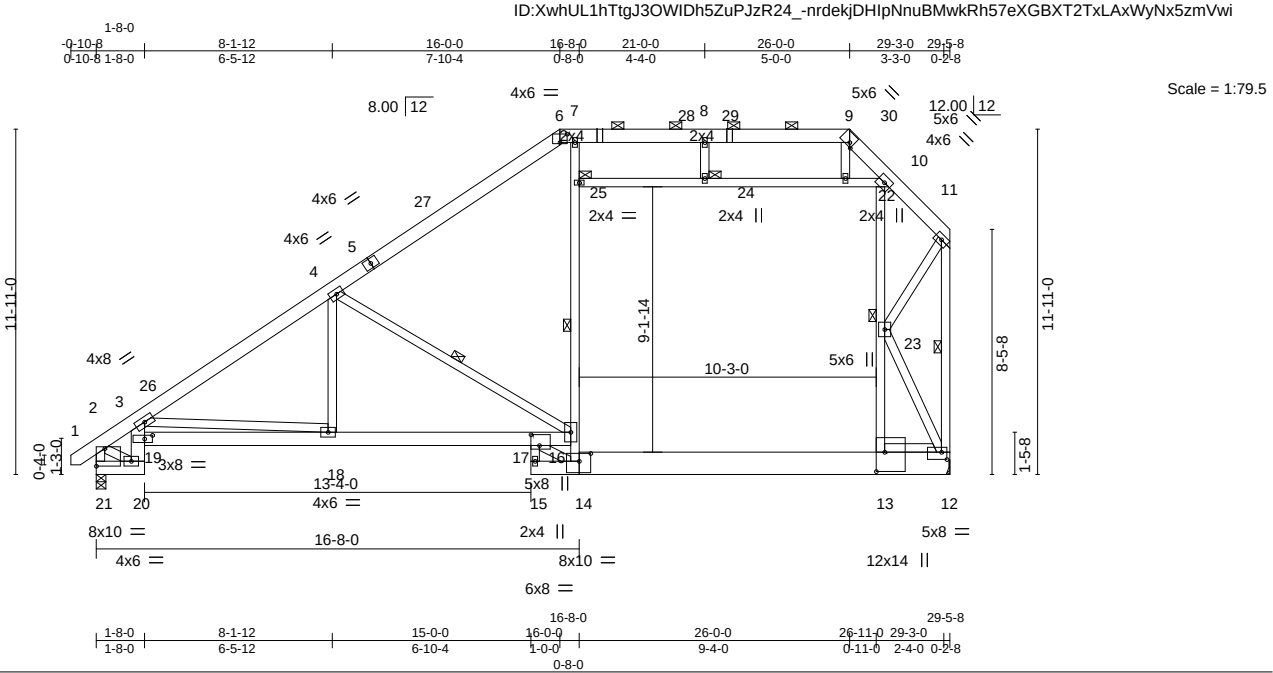

Plate Offsets (X,Y)-- [6:0-3-0,0-3-8], [9:0-1-12,0-1-8], [12:0-2-4,0-3-0], [13:0-8-0,0-3-8], [14:0-4-12,0-3-4], [17:0-3-8,0-4-8], [19:0-3-4,0-1-8], [21:0-1-12,0-0-0], [21:Edge,0-7-4]

LOADING (psf)		SPACING- 1-7-3		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.40	17-18	>874	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.87	17-18	>402	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.16	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.38	17-18	>910	240	Weight: 290 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 12-14: 2x10 SP DSS, 12-13: 2x4 SP No.2, 16-19: 2x6 SP DSS
WEBS	2x4 SP No.3 *Except* 11-12,7-14,10-13,10-25: 2x4 SP No.2, 3-20: 2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-5-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9.
BOT CHORD	Rigid ceiling directly applied or 3-3-9 oc bracing.
WEBS	1 Row at midpt 4-16, 11-12, 14-25
JOINTS	1 Brace at Jt(s): 23, 24, 25

REACTIONS. (size) 12=Mechanical, 21=0-4-0
Max Horz 21=310(LC 11)
Max Uplift 21=-79(LC 12)
Max Grav 12=1431(LC 2), 21=1082(LC 20)

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

TOP CHORD	2-3=-884/71, 3-4=-1711/123, 4-6=-1009/100, 6-7=-741/129, 7-8=-817/123, 8-9=-817/123, 9-10=-977/127, 10-11=-935/120, 11-12=-1649/81
BOT CHORD	13-14=-80/746, 12-13=-75/623, 20-21=-310/319, 18-19=-616/1974, 17-18=-264/1545, 16-17=-204/863
WEBS	4-18=0/467, 4-16=-911/267, 14-16=-1154/271, 16-25=0/361, 7-25=0/393, 9-22=-12/311, 13-23=-84/2627, 10-23=-192/276, 12-23=-1584/50, 11-23=-54/1231, 2-21=-1072/85, 19-20=-428/25, 3-19=-438/50, 2-20=-34/803, 15-17=-144/564, 3-18=-573/354, 14-17=-110/816

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-9 to 2-3-7, Interior(1) 2-3-7 to 16-0-0, Exterior(2) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 26-0-0, Exterior(2) 26-0-0 to 29-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Ceiling dead load (5.0 psf) on member(s). 24-25, 22-24, 10-22; Wall dead load (5.0psf) on member(s).14-16, 16-25, 13-23, 10-23
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-14
8) Refer to girder(s) for truss to truss connections.
9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 21. This connection is for uplift only and does not consider lateral forces.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	A15	ATTIC	1	1	I44760246
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:23 2021 Page 1
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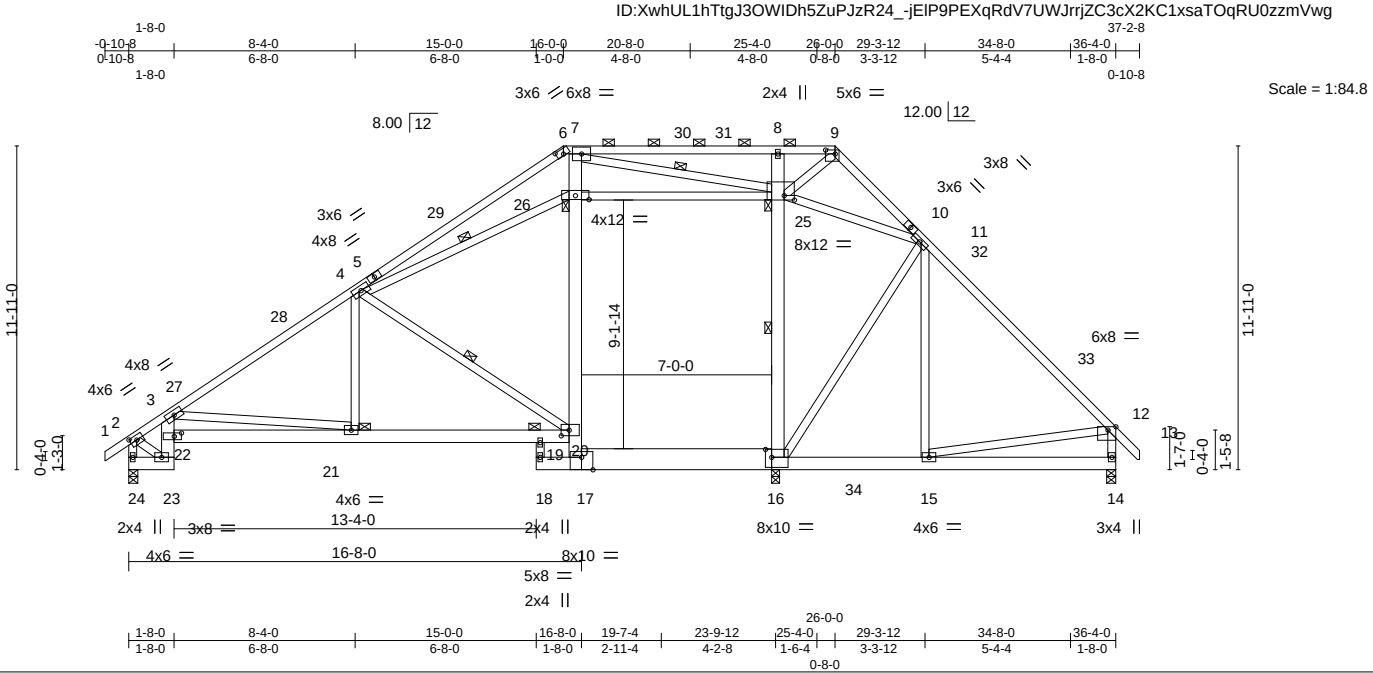

Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [6:0-3-0,0-2-3], [9:0-4-4,0-1-12], [12:0-3-8,Edge], [16:0-2-12,0-3-8], [17:0-5-0,Edge], [19:0-3-8,0-2-8], [22:0-3-4,0-1-8], [25:0-4-8,0-2-0], [26:0-6-0,0-1-12]

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	0.84	Vert(LL)	-0.17	18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.33	18	>865	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.17	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	18	>999	240	Weight: 340 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 6-9: 2x4 SP No.1
BOT CHORD	2x6 SP No.2 *Except* 16-17: 2x10 SP DSS
WEBS	2x4 SP No.3 *Except* 2-24,12-14,25-26,7-25: 2x4 SP No.2, 8-16,7-17: 2x6 SP DSS 3-23: 2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-10 max.): 6-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-19, 16-25, 4-26, 7-25
JOINTS	1 Brace at Jt(s): 21, 25, 20, 26

REACTIONS. (size) 24=0-4-0, 14=0-4-0, 16=0-3-8
Max Horz 24=326(LC 11)
Max Uplift 24=-67(LC 12), 14=-20(LC 13)
Max Grav 24=1239(LC 20), 14=1008(LC 21), 16=1254(LC 2)

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

TOP CHORD	2-24=-1207/180, 2-3=-1010/134, 3-4=-1830/171, 4-6=-1499/74, 6-7=-1174/126, 7-8=-61/1066, 8-9=-81/1066, 9-11=-103/753, 11-12=-993/132, 12-14=-929/156
BOT CHORD	16-17=-24/882, 15-16=0/636, 14-15=-171/306, 23-24=-297/312
WEBS	4-19=-732/227, 16-25=-1049/189, 8-25=-516/194, 17-19=0/520, 19-26=-6/862, 7-26=0/998, 9-25=-708/29, 25-26=-43/718, 12-15=0/560, 11-16=-159/567, 11-25=-1453/191, 21-22=-562/2415, 20-21=-158/1640, 19-20=-158/1640, 22-23=-616/101, 3-22=-596/116, 2-23=-159/1034, 3-21=-777/450, 4-26=-144/355, 7-25=-2611/90

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-6 to 2-1-10, Interior(1) 2-1-10 to 16-0-0, Exterior(2) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 26-0-0, Exterior(2) 26-0-0 to 30-2-15, Interior(1) 30-2-15 to 37-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) Ceiling dead load (5.0 psf) on member(s). 25-26, 21-22, 20-21, 19-20; Wall dead load (5.0psf) on member(s).16-25, 19-26, 18-20
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-18, 16-17
8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 24 and 14. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

February 11,2021

LOAD CASE(S) Standard

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-60, 2-6=-60, 6-9=-60, 9-12=-60, 12-13=-60, 16-18=-30, 14-16=-20, 25-26=-10, 23-24=-20, 19-22=-10
   Drag: 16-25=-10, 19-26=-10, 18-20=-10

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	A16	ATTIC	1	1	I44760247
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:25 2021 Page 1
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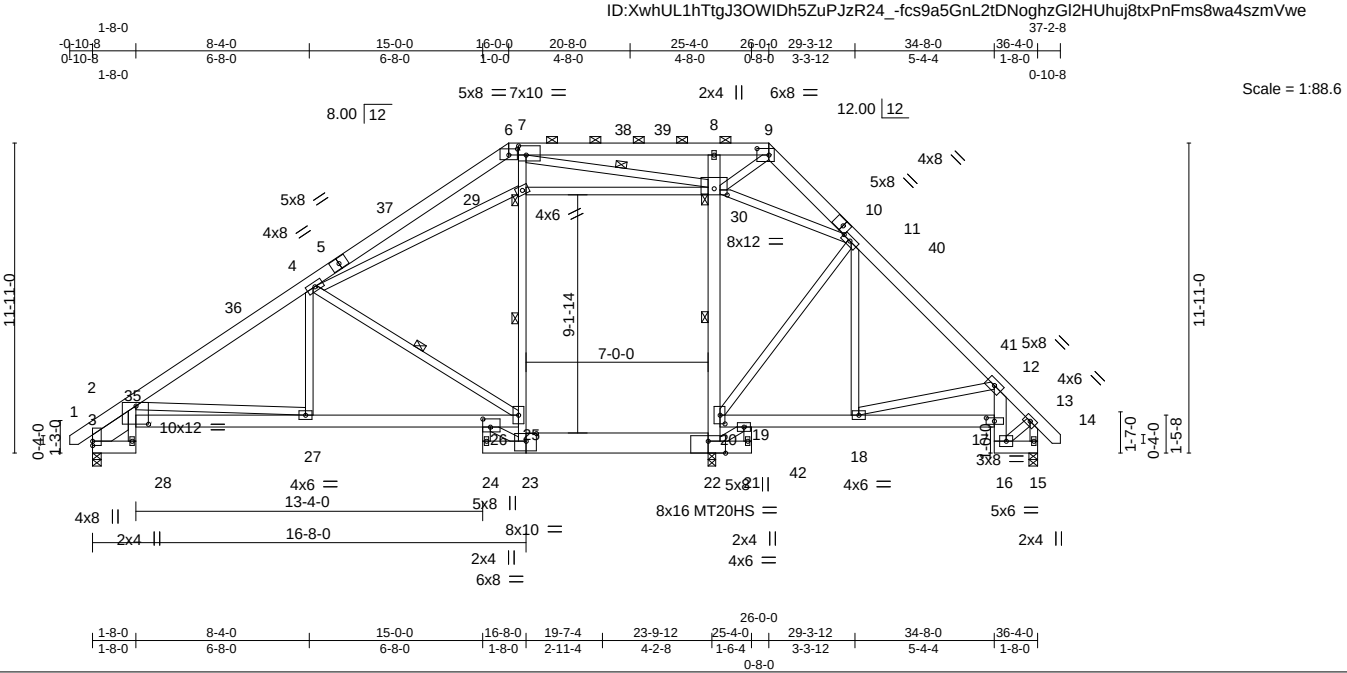

Plate Offsets (X,Y)-- [3:0-5-12,0-8-6], [6:0-4-0,0-2-13], [7:0-3-8,0-4-4], [9:0-5-8,0-3-0], [10:0-3-3,0-2-8], [17:0-3-12,0-1-8], [20:0-4-0,0-2-4], [22:0-8-0,Edge], [23:0-4-12,0-3-8], [26:0-3-8,0-3-12], [30:0-6-0,0-2-14]

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)	-0.16	26-27	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.37	26-27	>778	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.23	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.14	3-27	>999	240	Weight: 380 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP DSS *Except*
	17-20,12-16: 2x6 SP No.2, 22-23: 2x10 SP DSS
WEBS	2x4 SP No.3 *Except*
	8-22: 2x6 SP No.2, 7-23,24-26: 2x4 SP No.2
SLIDER	Left 2x8 SP DSS 1-9-7

REACTIONS. (size) 2=0-4-0, 15=0-4-0, 22=0-3-8
Max Horz 2=-284(LC 10)
Max Uplift 15=-31(LC 13)
Max Grav 2=1169(LC 24), 15=812(LC 21), 22=1527(LC 2)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-2-2 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-28,16-17 9-4-10 oc bracing: 3-27.
WEBS	1 Row at midpt 4-25, 22-30, 23-29, 7-30
JOINTS	1 Brace at Jt(s): 29, 30

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

TOP CHORD	3-32=-528/147, 3-4=-1796/83, 4-6=-1516/38, 6-7=-1173/96, 7-8=-12/1226, 8-9=-32/1228, 9-11=-72/880, 11-12=-826/98, 12-13=-611/87
BOT CHORD	19-20=-431/80, 18-19=0/545, 17-18=-38/678, 16-17=-263/17, 22-23=0/741, 3-27=-95/1637, 26-27=-95/1641, 25-26=-122/988
WEBS	4-27=0/516, 4-25=-1106/184, 20-22=-1031/49, 20-30=-1198/154, 8-30=-634/190, 23-25=-503/165, 25-29=0/759, 7-29=0/1032, 9-30=-782/4, 19-21=-788/0, 12-18=-316/236, 11-20=-139/374, 11-30=-1317/116, 3-28=-79/308, 4-29=-19/604, 23-26=-29/829, 19-22=0/1139, 7-30=-2487/9, 13-15=-872/98, 13-16=-9/519, 29-30=-18/615

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-9 to 2-3-7, Interior(1) 2-3-7 to 16-0-0, Exterior(2) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 26-0-0, Exterior(2) 26-0-0 to 30-2-15, Interior(1) 30-2-15 to 37-0-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Ceiling dead load (5.0 psf) on member(s). 29-30; Wall dead load (5.0psf) on member(s).20-22, 20-30, 23-25, 25-29
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 22-23
9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

Continued on page 2

February 11,2021

ENGINEERING BY
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Edenton, NC 27932

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 6-9=-60, 9-14=-60, 28-31=-20, 17-19=-20, 15-16=-20, 23-24=-20, 22-23=-30, 21-22=-20, 3-26=-20, 29-30=-10
   Drag: 22-30=-10, 23-29=-10

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	A17	ATTIC	1	1	I44760248
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:26 2021 Page 1
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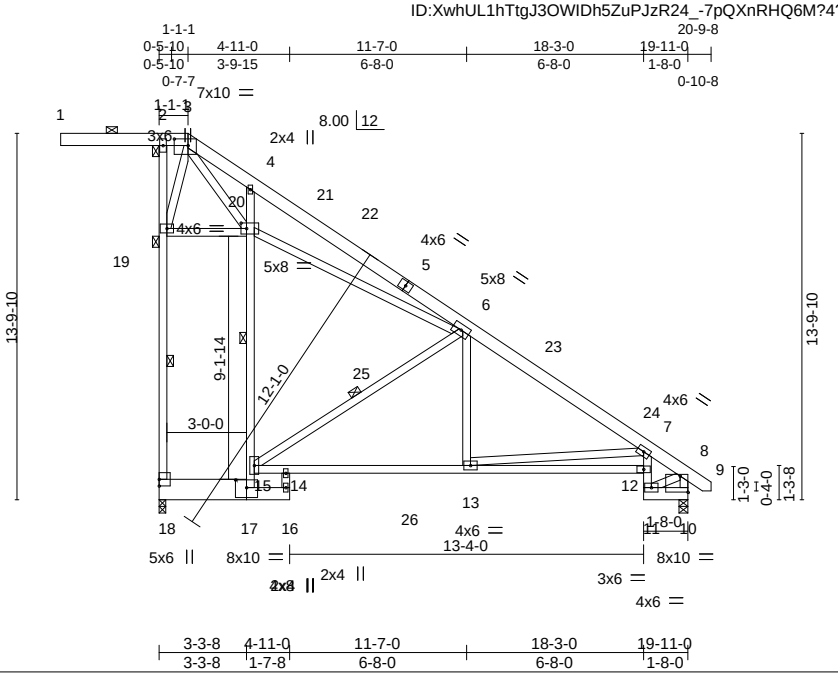

Plate Offsets (X,Y)-- [3:0-6-4,0-3-0], [10:0-1-12,0-0-0], [10:Edge,0-7-4], [17:0-5-0,0-3-8], [20:0-2-8,0-2-8]

LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0		Plate Grip DOL 1.15	TC 0.73	Vert(LL) -0.11 13-14 >999 360	MT20 244/190
TCDL 10.0		Lumber DOL 1.15	BC 0.70	Vert(CT) -0.28 13-14 >831 240	
BCLL 0.0	*	Rep Stress Incr NO	WB 0.93	Horz(CT) 0.20 10 n/a n/a	
BCDL 10.0		Code IRC2015/TPI2014	Matrix-MS	Wind(LL) -0.14 13-14 >999 240	Weight: 209 lb FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
17-18: 2x10 SP DSS, 12-15: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-18,8-10: 2x4 SP No.2, 6-15,7-11: 2x4 SP No.1, 4-17: 2x4 SP SS

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-14 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 1-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 18-19, 6-15, 4-17
JOINTS 1 Brace at Jt(s): 2, 19

REACTIONS. (size) 18=0-3-0, 10=0-4-0
Max Horz 18=-518(LC 8)
Max Uplift 18=-209(LC 8)
Max Grav 18=1262(LC 21), 10=873(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 18-19=-1148/281, 2-19=-652/477, 3-4=-1775/89, 4-6=-1832/67, 6-7=-1172/42, 7-8=-722/60, 8-10=-840/82
BOT CHORD 17-18=-596/602, 14-15=0/974, 13-14=0/974, 12-13=-61/1088
WEBS 6-15=-1240/257, 6-13=0/358, 6-20=-459/1927, 15-17=-224/355, 15-20=0/903, 4-20=-359/228, 19-20=-141/378, 3-20=-214/2271, 3-19=-874/0, 11-12=-278/28, 7-13=-316/251, 8-11=-39/523

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -3-8-8 to -0-8-8, Interior(1) -0-8-8 to 1-1-1, Exterior(2) 1-1-1 to 5-4-0, Interior(1) 5-4-0 to 20-7-9 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
2) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.
6) N/A

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
8) Attic room checked for L/360 deflection.
9) 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

February 11,2021

Continued on page 2

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Edenton, NC 27932

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-8=-60, 8-9=-60, 16-18=-20, 15-25=-40(F), 1-2=-60, 2-3=-60, 10-11=-20, 12-14=-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: 3-8=-50, 8-9=-50, 17-18=-50, 16-17=-20, 15-25=-40(F), 1-2=-50, 2-3=-50, 10-11=-20, 14-26=-20, 13-26=-50, 12-13=-20

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 3-8=-20, 8-9=-20, 17-18=-40, 16-17=-40, 15-25=-40(F), 1-2=-20, 2-3=-20, 10-11=-40, 12-14=-40

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-21=25, 8-21=19, 8-9=13, 16-18=-12, 15-25=-40(F), 1-2=36, 2-3=22, 10-11=-12, 12-14=-12
Horz: 2-18=20, 3-21=37, 8-21=31, 8-9=25, 8-10=34

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-24=19, 8-24=25, 8-9=45, 16-18=-12, 15-25=-40(F), 1-2=16, 2-3=22, 10-11=-12, 12-14=-12
Horz: 2-18=-34, 3-24=31, 8-24=37, 8-9=57, 8-10=-20

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-8=-51, 8-9=-45, 16-18=-20, 15-25=-40(F), 1-2=-14, 2-3=-32, 10-11=-20, 12-14=-20
Horz: 2-18=-23, 3-8=-31, 8-9=-25, 8-10=-31

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-8=-51, 8-9=5, 16-18=-20, 15-25=-40(F), 1-2=-26, 2-3=-32, 10-11=-20, 12-14=-20
Horz: 2-18=31, 3-8=-31, 8-9=25, 8-10=23

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-8=10, 8-9=5, 16-18=-12, 15-25=-40(F), 1-2=40, 2-3=27, 10-11=-12, 12-14=-12
Horz: 2-18=16, 3-8=22, 8-9=17, 8-10=21

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-8=-15, 8-9=-2, 16-18=-12, 15-25=-40(F), 1-2=5, 2-3=10, 10-11=-12, 12-14=-12
Horz: 2-18=-21, 3-8=-3, 8-9=10, 8-10=-16

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-8=-9, 8-9=-3, 16-18=-20, 15-25=-40(F), 1-2=14, 2-3=8, 10-11=-20, 12-14=-20
Horz: 2-18=27, 3-8=11, 8-9=17, 8-10=9

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-8=-34, 8-9=-29, 16-18=-20, 15-25=-40(F), 1-2=-3, 2-3=-9, 10-11=-20, 12-14=-20
Horz: 2-18=-9, 3-8=-14, 8-9=-9, 8-10=-27

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-22=10, 8-22=5, 8-9=-0, 16-18=-12, 15-25=-40(F), 1-2=22, 2-3=27, 10-11=-12, 12-14=-12
Horz: 2-18=14, 3-22=22, 8-22=17, 8-9=12, 8-10=15

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-23=15, 8-23=27, 8-9=22, 16-18=-12, 15-25=-40(F), 1-2=-0, 2-3=5, 10-11=-12, 12-14=-12
Horz: 2-18=-15, 3-23=27, 8-23=39, 8-9=34, 8-10=-14

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-8=5, 8-9=-0, 16-18=-12, 15-25=-40(F), 1-2=10, 2-3=15, 10-11=-12, 12-14=-12
Horz: 2-18=7, 3-8=17, 8-9=12, 8-10=15

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-8=15, 8-9=10, 16-18=-12, 15-25=-40(F), 1-2=-0, 2-3=5, 10-11=-12, 12-14=-12
Horz: 2-18=-15, 3-8=27, 8-9=22, 8-10=-7

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-22=-9, 8-22=-14, 8-9=-8, 16-18=-20, 15-25=-40(F), 1-2=14, 2-3=8, 10-11=-20, 12-14=-20
Horz: 2-18=25, 3-22=11, 8-22=6, 8-9=12, 8-10=3

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-23=-4, 8-23=8, 8-9=14, 16-18=-20, 15-25=-40(F), 1-2=-8, 2-3=-14, 10-11=-20, 12-14=-20
Horz: 2-18=-3, 3-23=16, 8-23=28, 8-9=34, 8-10=-25

18) Dead + Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 3-8=-20, 8-9=-20, 17-18=-60, 16-17=-20, 15-25=-40(F), 1-2=-20, 2-3=-20, 10-11=-20, 14-26=-20, 13-26=-60, 12-13=-20

19) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 3-8=-20, 8-9=-20, 17-18=-60, 16-17=-20, 15-25=-40(F), 1-2=-20, 2-3=-20, 10-11=-20, 14-26=-20, 13-26=-60, 12-13=-20

20) 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

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 3-8=-42, 8-9=-37, 17-18=-50, 16-17=-20, 15-25=-40(F), 1-2=-25, 2-3=-29, 10-11=-20, 14-26=-20, 13-26=-50, 12-13=-20

Horz: 2-18=21, 3-8=8, 8-9=13, 8-10=7

21) 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: 3-8=-61, 8-9=-56, 17-18=-50, 16-17=-20, 15-25=-40(F), 1-2=-37, 2-3=-42, 10-11=-20, 14-26=-20, 13-26=-50, 12-13=-20

Horz: 2-18=-7, 3-8=-11, 8-9=-6, 8-10=-21

22) 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: 3-22=-42, 8-22=-46, 8-9=-41, 17-18=-50, 16-17=-20, 15-25=-40(F), 1-2=-25, 2-3=-29, 10-11=-20, 14-26=-20, 13-26=-50, 12-13=-20

Horz: 2-18=19, 3-22=8, 8-22=4, 8-9=9, 8-10=3

23) 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: 3-23=-38, 8-23=-29, 8-9=-25, 17-18=-50, 16-17=-20, 15-25=-40(F), 1-2=-41, 2-3=-46, 10-11=-20, 14-26=-20, 13-26=-50, 12-13=-20

Horz: 2-18=-3, 3-23=12, 8-23=21, 8-9=25, 8-10=-19

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	A17A	ATTIC	1	1	I44760249
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:27 2021 Page 1
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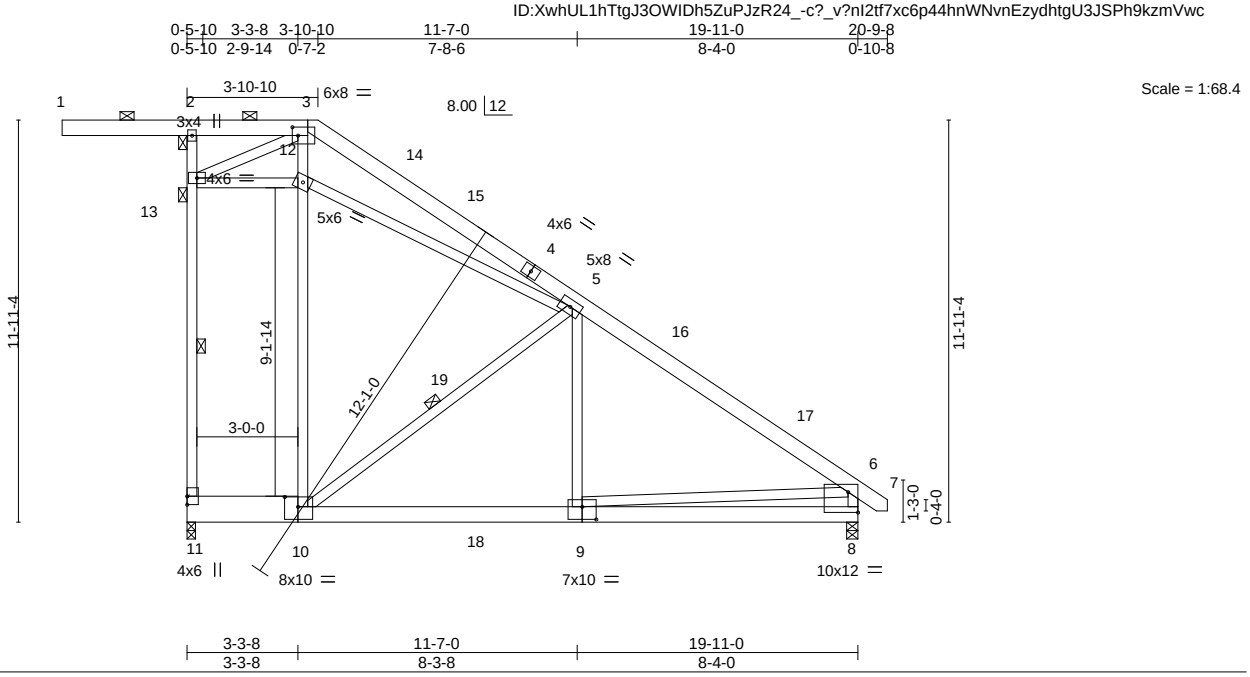

Plate Offsets (X,Y)-- [3:0-2-0,0-3-0], [8:0-1-12,0-0-0], [8:Edge,0-7-4], [9:0-5-0,0-4-8], [10:0-4-12,0-3-8]

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	0.72	Vert(LL)	-0.09	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.21	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	-0.07	9-10	>999	240	Weight: 207 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
10-11: 2x10 SP DSS
WEBS 2x4 SP No.3 *Except*
2-11,6-8,3-10: 2x4 SP No.2, 5-10: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-1 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 1-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 11-13, 5-10
JOINTS 1 Brace at Jt(s): 2, 13

REACTIONS. (size) 11=0-3-0, 8=0-4-0
Max Horz 11=-446(LC 8)
Max Uplift 11=-200(LC 8), 8=-10(LC 13)
Max Grav 11=1216(LC 21), 8=870(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 11-13=-1063/268, 2-13=-446/271, 3-5=-1794/95, 5-6=-1046/48, 6-8=-814/112
BOT CHORD 10-11=-506/520, 9-10=0/799, 8-9=-116/334
WEBS 5-10=-1153/269, 5-9=0/360, 5-12=-293/1721, 10-12=0/838, 3-12=-20/1508, 12-13=-275/1722, 3-13=-1792/95, 6-9=0/568

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -3-8-8 to -0-8-8, Interior(1) -0-8-8 to 3-7-0, Exterior(2) 3-7-0 to 7-9-15, Interior(1) 7-9-15 to 20-7-9 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) 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 8. This connection is for uplift only and does not consider lateral forces.
7) N/A
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Attic room checked for L/360 deflection.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-60, 6-7=-60, 8-11=-20, 10-19=-40(F), 1-2=-60, 2-3=-60

February 11,2021

Continued on page 2

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LOAD CASE(S) Standard

2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-6=-50, 6-7=-50, 10-11=-50, 10-18=-20, 9-18=-50, 8-9=-20, 10-19=-40(F), 1-2=-50, 2-3=-50
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 3-6=-20, 6-7=-20, 10-11=-40, 8-10=-40, 10-19=-40(F), 1-2=-20, 2-3=-20
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 3-15=25, 6-15=19, 6-7=13, 8-11=-12, 10-19=-40(F), 1-2=36, 2-3=22
   Horz: 2-11=20, 3-15=37, 6-15=31, 6-7=25, 6-8=34
   Drag: 2-3=-1
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 3-17=19, 6-17=25, 6-7=45, 8-11=-12, 10-19=-40(F), 1-2=16, 2-3=22
   Horz: 2-11=-34, 3-17=31, 6-17=37, 6-7=57, 6-8=-20
   Drag: 2-3=-1
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 3-6=-51, 6-7=-45, 8-11=-20, 10-19=-40(F), 1-2=-14, 2-3=-32
   Horz: 2-11=-23, 3-6=-31, 6-7=-25, 6-8=-31
   Drag: 2-3=0
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 3-6=-51, 6-7=5, 8-11=-20, 10-19=-40(F), 1-2=-26, 2-3=-32
   Horz: 2-11=31, 3-6=-31, 6-7=25, 6-8=23
   Drag: 2-3=0
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 3-6=10, 6-7=5, 8-11=-12, 10-19=-40(F), 1-2=40, 2-3=27
   Horz: 2-11=16, 3-6=22, 6-7=17, 6-8=21
   Drag: 2-3=-1
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 3-6=-15, 6-7=-2, 8-11=-12, 10-19=-40(F), 1-2=5, 2-3=10
   Horz: 2-11=-21, 3-6=-3, 6-7=10, 6-8=-16
   Drag: 2-3=-0
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 3-6=-9, 6-7=-3, 8-11=-20, 10-19=-40(F), 1-2=14, 2-3=8
    Horz: 2-11=27, 3-6=11, 6-7=17, 6-8=9
    Drag: 2-3=-0
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 3-6=-34, 6-7=-29, 8-11=-20, 10-19=-40(F), 1-2=-3, 2-3=-9
    Horz: 2-11=-9, 3-6=-14, 6-7=-9, 6-8=-27
    Drag: 2-3=-0
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 3-14=10, 6-14=5, 6-7=-0, 8-11=-12, 10-19=-40(F), 1-2=22, 2-3=27
    Horz: 2-11=14, 3-14=22, 6-14=17, 6-7=12, 6-8=15
    Drag: 2-3=-1
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 3-16=15, 6-16=27, 6-7=22, 8-11=-12, 10-19=-40(F), 1-2=-0, 2-3=5
    Horz: 2-11=-15, 3-16=27, 6-16=39, 6-7=34, 6-8=-14
    Drag: 2-3=-0
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 3-6=5, 6-7=-0, 8-11=-12, 10-19=-40(F), 1-2=10, 2-3=15
    Horz: 2-11=7, 3-6=17, 6-7=12, 6-8=15
    Drag: 2-3=-0
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 3-6=15, 6-7=10, 8-11=-12, 10-19=-40(F), 1-2=-0, 2-3=5
    Horz: 2-11=-15, 3-6=27, 6-7=22, 6-8=-7
    Drag: 2-3=-0
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 3-14=-9, 6-14=-14, 6-7=-8, 8-11=-20, 10-19=-40(F), 1-2=14, 2-3=8
    Horz: 2-11=25, 3-14=11, 6-14=6, 6-7=12, 6-8=3
    Drag: 2-3=-0
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-16=-4, 6-16=8, 6-7=14, 8-11=-20, 10-19=-40(F), 1-2=-8, 2-3=-14
Horz: 2-11=-3, 3-16=16, 6-16=28, 6-7=34, 6-8=-25
Drag: 2-3=-0

18) Dead + Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 3-6=-20, 6-7=-20, 10-11=-60, 10-18=-20, 9-18=-60, 8-9=-20, 10-19=-40(F), 1-2=-20, 2-3=-20

19) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 3-6=-20, 6-7=-20, 10-11=-60, 10-18=-20, 9-18=-60, 8-9=-20, 10-19=-40(F), 1-2=-20, 2-3=-20

20) 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: 3-6=-42, 6-7=-37, 10-11=-50, 10-18=-20, 9-18=-50, 8-9=-20, 10-19=-40(F), 1-2=-25, 2-3=-29
Horz: 2-11=21, 3-6=8, 6-7=13, 6-8=7
Drag: 2-3=-0

21) 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: 3-6=-61, 6-7=-56, 10-11=-50, 10-18=-20, 9-18=-50, 8-9=-20, 10-19=-40(F), 1-2=-37, 2-3=-42
Horz: 2-11=-7, 3-6=-11, 6-7=-6, 6-8=-21
Drag: 2-3=-0

22) 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: 3-14=-42, 6-14=-46, 6-7=-41, 10-11=-50, 10-18=-20, 9-18=-50, 8-9=-20, 10-19=-40(F), 1-2=-25, 2-3=-29
Horz: 2-11=19, 3-14=8, 6-14=4, 6-7=9, 6-8=3
Drag: 2-3=-0

23) 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: 3-16=-38, 6-16=-29, 6-7=-25, 10-11=-50, 10-18=-20, 9-18=-50, 8-9=-20, 10-19=-40(F), 1-2=-41, 2-3=-46
Horz: 2-11=-3, 3-16=12, 6-16=21, 6-7=25, 6-8=-19
Drag: 2-3=-0

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-20, 6-7=-20, 8-11=-20, 10-19=-40(F), 1-2=-60, 2-3=-60

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-60, 6-7=-60, 8-11=-20, 10-19=-40(F), 1-2=-20, 2-3=-20

26) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-20, 6-7=-20, 10-11=-50, 10-18=-20, 9-18=-50, 8-9=-20, 10-19=-40(F), 1-2=-50, 2-3=-50

27) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-50, 6-7=-50, 10-11=-50, 10-18=-20, 9-18=-50, 8-9=-20, 10-19=-40(F), 1-2=-20, 2-3=-20

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	A18	ROOF SPECIAL	1	1	I44760250
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:28 2021 Page 1

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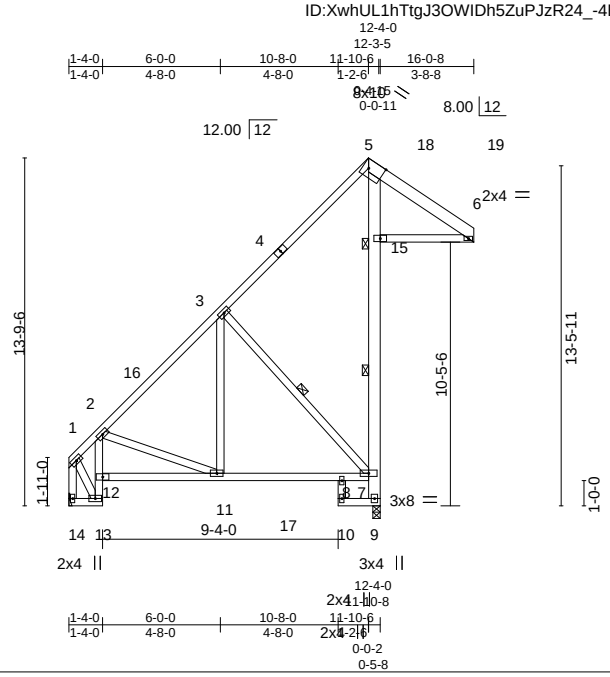

Plate Offsets (X,Y)-- [5:0-7-4,Edge]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	0.06	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.09	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	-0.09	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 133 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
5-6: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
5-9: 2x6 SP No.2, 1-14,2-13,6-15: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 9-15
BOT CHORD Rigid ceiling directly applied or 7-11-0 oc bracing.
WEBS 1 Row at midpt 9-15, 3-7
JOINTS 1 Brace at Jt(s): 15

REACTIONS. (size) 9=0-3-8, 14=Mechanical
Max Horz 14=378(LC 9)
Max Uplift 9=-219(LC 12), 14=-12(LC 8)
Max Grav 9=686(LC 19), 14=435(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-403/98, 7-9=-699/313, 7-15=-365/184, 5-15=-369/184, 1-14=-419/69
BOT CHORD 13-14=-423/456, 11-12=-546/741, 8-11=-252/421, 7-8=-252/421
WEBS 3-7=-440/241, 1-13=-103/334, 2-11=-341/313, 12-13=-285/95, 2-12=-271/123

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-10-8, Exterior(2) 11-10-8 to 14-10-8, Interior(1) 14-10-8 to 16-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) All plates are 3x6 MT20 unless otherwise indicated.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14.
7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 11,2021

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Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	A19	ROOF SPECIAL	1	1	I44760251
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:29 2021 Page 1
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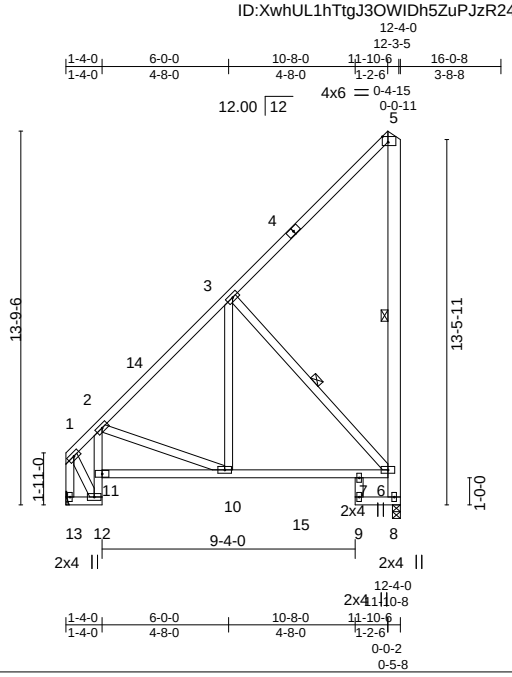

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Plate Offsets (X,Y)-- [5:0-2-8,Edge]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.06	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.08	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	-0.08	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 116 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
5-8: 2x6 SP No.2, 1-13: 2x4 SP No.2, 2-12: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-13 oc bracing.
WEBS 1 Row at midpt 5-8, 3-6

REACTIONS. (size) 8=0-3-8, 13=Mechanical
Max Horz 13=418(LC 11)
Max Uplift 8=-232(LC 9), 13=-21(LC 8)
Max Grav 8=533(LC 19), 13=499(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-252/28, 2-3=-475/114, 3-5=-262/264, 6-8=-614/341, 5-6=-275/203, 1-13=-482/81
BOT CHORD 12-13=-572/600, 10-11=-692/889, 7-10=-304/484, 6-7=-304/484
WEBS 3-6=-468/252, 1-12=-104/370, 2-10=-431/413, 11-12=-317/96, 2-11=-300/124

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-1-4 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) All plates are 3x6 MT20 unless otherwise indicated.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13.
7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.

February 11,2021

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	B02	SPECIAL	1	1	I44760252
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:30 2021 Page 1
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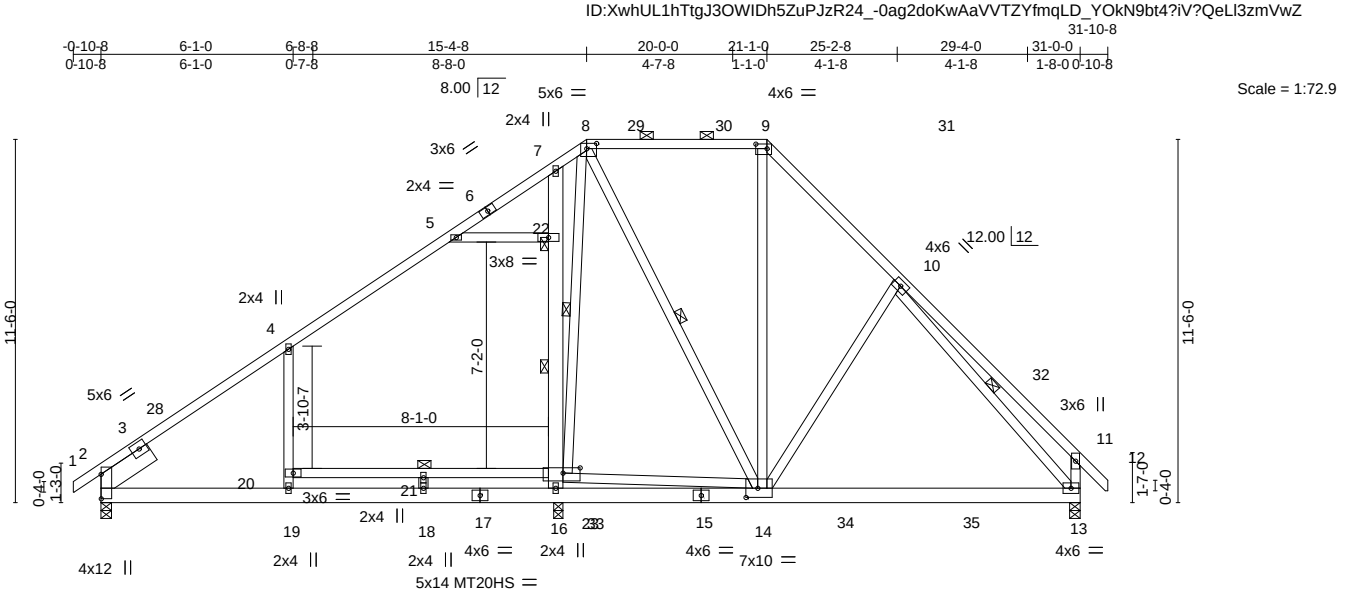

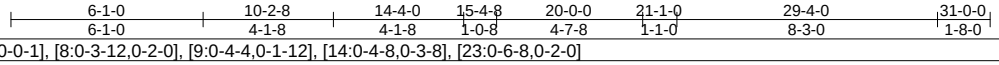

Plate Offsets (X,Y)-- [2:0-9-5,0-0-1], [8:0-3-12,0-2-0], [9:0-4-4,0-1-12], [14:0-4-8,0-3-8], [23:0-6-8,0-2-0]

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	0.77	Vert(LL)	-0.32	18-19	>533	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.68	18-19	>255	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.10	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.40	18-19	>430	240	Weight: 271 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP DSS
WEBS	2x4 SP No.3 *Except* 8-14,4-19: 2x4 SP No.2, 7-16: 2x6 SP No.2
SLIDER	Left 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-8-11 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-14 max.): 8-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 10-13, 8-14, 20-23, 16-22, 8-23
JOINTS	1 Brace at Jt(s): 22

REACTIONS. (size) 13=0-4-0, 2=0-4-0, 16=0-3-8
Max Horz 2=306(LC 11)
Max Uplift 13=-141(LC 12), 2=-291(LC 12), 16=-139(LC 8)
Max Grav 13=1221(LC 1), 2=1306(LC 19), 16=509(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1341/318, 4-5=-1268/426, 5-7=-824/304, 7-8=-1337/527, 8-9=-831/346, 9-10=-1122/406, 10-11=-507/280, 11-13=-515/277
BOT CHORD 2-19=-280/1210, 18-19=-383/1561, 16-18=-383/1561, 14-16=-505/1972, 13-14=-81/772
WEBS 9-14=-187/591, 10-13=-894/141, 8-14=-391/276, 20-21=-415/121, 21-23=-415/121, 5-22=-480/191, 16-23=-341/523, 22-23=-524/264, 7-22=-521/263, 8-23=-548/1006, 14-23=-1056/391

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-6 to 2-1-10, Interior(1) 2-1-10 to 15-4-8, Exterior(2) 15-4-8 to 19-7-7, Interior(1) 19-7-7 to 21-1-0, Exterior(2) 21-1-0 to 25-4-8, Interior(1) 25-4-8 to 31-10-0 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, with BCDL = 10.0psf.
7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13, 2, and 16. This connection is for uplift only and does not consider lateral forces.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) 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: 1-8=-60, 8-9=-60, 9-11=-60, 11-12=-60, 19-24=-20, 19-33=-60(F=-40), 13-33=-20

February 11,2021

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Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	B03	SPECIAL	1	1	I44760253
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:32 2021 Page 1
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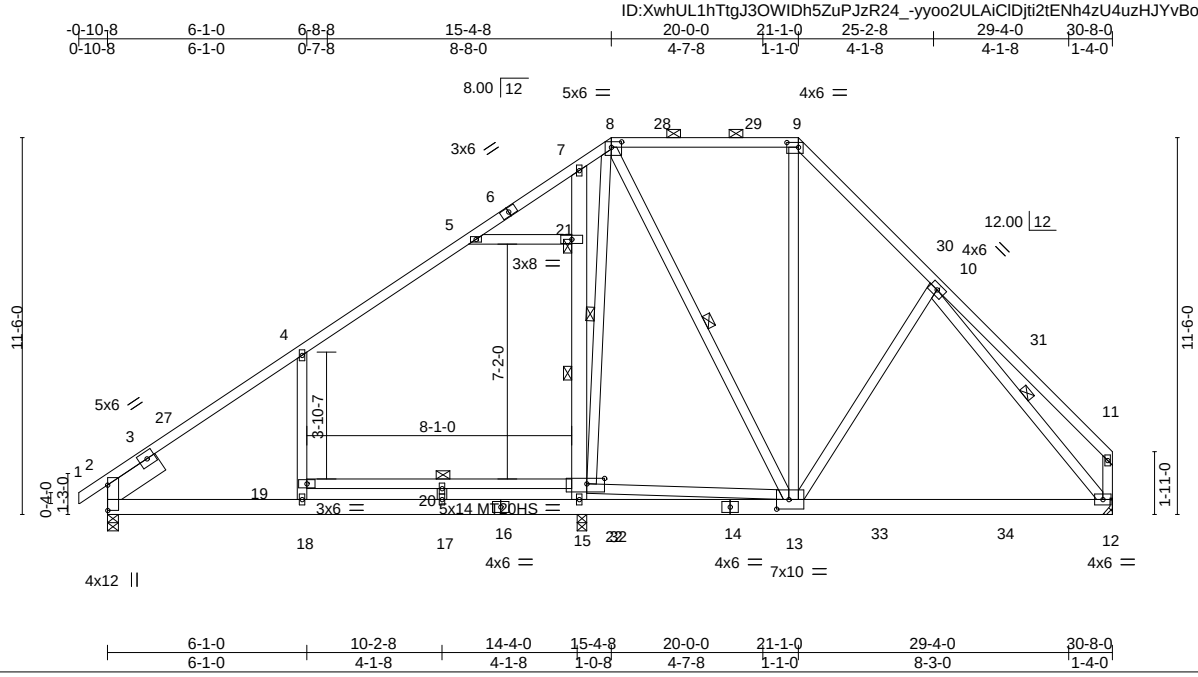

Plate Offsets (X,Y)-- [2:0-9-5,0-0-1], [8:0-3-12,0-2-0], [9:0-4-4,0-1-12], [13:0-4-8,0-3-8], [22:0-6-8,0-2-0]

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	0.77	Vert(LL)	-0.33	17-18	>530	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.68	17-18	>253	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.10	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.40	17-18	>427	240	Weight: 267 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP DSS *Except*
	12-14: 2x6 SP No.2
WEBS	2x4 SP No.3 *Except*
	8-13,4-18: 2x4 SP No.2, 7-15: 2x6 SP No.2
SLIDER	Left 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-8-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 10-12, 8-13, 19-22, 15-21, 8-22
JOINTS	1 Brace at Jt(s): 21

REACTIONS. (size) 12=Mechanical, 2=0-4-0, 15=0-3-8
Max Horz 2=302(LC 11)
Max Uplift 12=-145(LC 12), 2=-288(LC 12), 15=-144(LC 8)
Max Grav 12=1150(LC 1), 2=1312(LC 19), 15=500(LC 21)

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

TOP CHORD	2-4=-1329/310, 4-5=-1249/418, 5-7=-805/299, 7-8=-1319/519, 8-9=-811/340, 9-10=-1096/397, 10-11=-339/179, 11-12=-335/167
BOT CHORD	2-18=-288/1200, 17-18=-391/1559, 15-17=-391/1559, 13-15=-510/1961, 12-13=-132/728
WEBS	9-13=-184/573, 10-12=-981/160, 8-13=-412/275, 19-20=-420/121, 20-22=-421/121, 5-21=-484/191, 15-22=-338/547, 21-22=-526/265, 7-21=-523/264, 8-22=-545/1006, 13-22=-1058/385

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-6 to 2-1-10, Interior(1) 2-1-10 to 15-4-8, Exterior(2) 15-4-8 to 19-7-7, Interior(1) 19-7-7 to 21-1-0, Exterior(2) 21-1-0 to 25-4-8, Interior(1) 25-4-8 to 30-6-4 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) 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, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=145.
10) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 15. This connection is for uplift only and does not consider lateral forces.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

February 11,2021

LOAD CASE(S) Standard

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-60, 8-9=-60, 9-11=-60, 18-23=-20, 18-32=-60(F=-40), 12-32=-20

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	B03G	GABLE	1	1	I44760254
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:34 2021 Page 1
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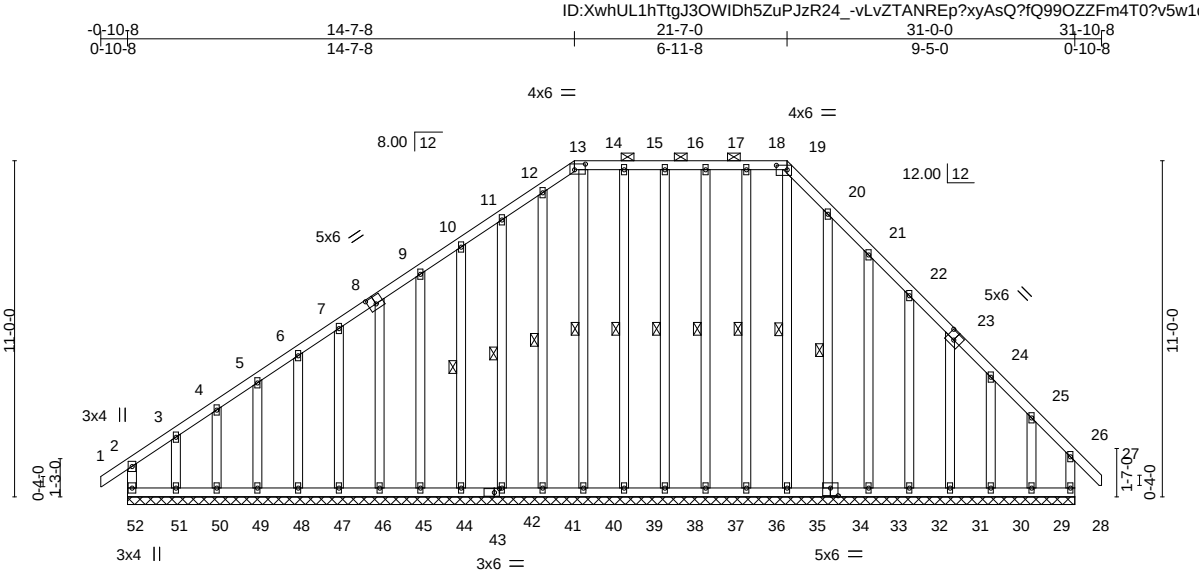

Plate Offsets (X,Y)-- [8:0-3-0,0-3-0], [13:0-4-4,0-2-4], [13:0-0-0,0-1-12], [14:0-1-12,0-0-0], [19:0-4-4,0-1-12], [23:0-3-0,0-3-0], [34:0-3-0,0-3-0], [43:0-2-0,0-1-8]

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	0.20	Vert(LL)	-0.00	27	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.00	27	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.01	28	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 339 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 13-19.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 19-35, 18-36, 17-37, 16-38, 15-39, 14-40, 12-41, 11-42, 10-44, 20-34

REACTIONS. All bearings 31-0-0.
(lb) - Max Horz 52=305(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 36, 37, 38, 39, 40, 41, 42, 44, 45, 46, 47, 48, 49, 50, 34, 33, 32, 31, 30 except 52=-235(LC 8), 28=-152(LC 9), 51=-223(LC 9), 29=-211(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 28, 35, 36, 37, 38, 39, 40, 41, 42, 44, 45, 46, 47, 48, 49, 50, 34, 33, 32, 31, 30, 29 except 52=291(LC 11), 51=291(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 9-10=-224/276, 10-11=-257/316, 11-12=-297/363, 12-13=-301/366, 13-14=-271/335, 14-15=-271/335, 15-16=-271/335, 16-17=-271/335, 17-18=-271/335, 18-19=-272/336, 19-20=-351/429, 20-21=-311/380, 21-22=-244/300

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-6 to 2-1-10, Exterior(2) 2-1-10 to 14-7-8, Corner(3) 14-7-8 to 17-7-0, Exterior(2) 17-7-0 to 21-7-0, Corner(3) 21-7-0 to 24-7-0, Exterior(2) 24-7-0 to 31-10-0 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) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.
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.

February 11,2021

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Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	B04	SPECIAL	1	1	I44760255
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:36 2021 Page 1
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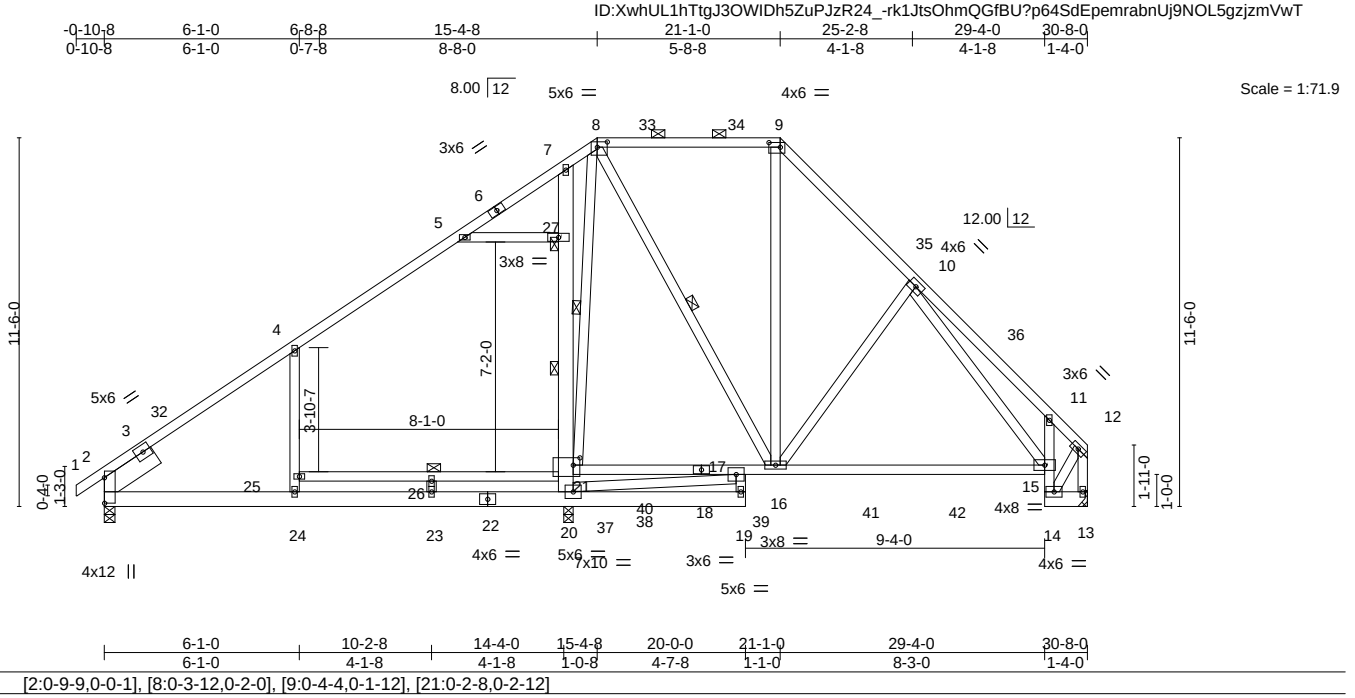

Plate Offsets (X,Y)-- [2:0-9-9,0-0-1], [8:0-3-12,0-2-0], [9:0-4-4,0-1-12], [21:0-2-8,0-2-12]

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	0.77	Vert(LL)	-0.34	23-24	>508	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.71	23-24	>244	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.12	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.42	23-24	>413	240	Weight: 267 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 2-22,19-22: 2x6 SP DSS, 13-14: 2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 7-20: 2x6 SP No.2, 11-14: 2x4 SP No.2
SLIDER	Left 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-15 max.): 8-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 8-16, 21-25, 20-27, 8-21
JOINTS	1 Brace at Jt(s): 27

REACTIONS. (size) 13=Mechanical, 2=0-4-0, 20=0-3-8
Max Horz 2=302(LC 11)
Max Uplift 13=-138(LC 12), 2=-280(LC 12), 20=-138(LC 8)
Max Grav 13=1102(LC 1), 2=1258(LC 23), 20=794(LC 21)

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

TOP CHORD	2-4=-1262/292, 4-5=-1191/407, 5-7=-732/290, 7-8=-1251/502, 8-9=-829/331, 9-10=-1119/380, 10-11=-972/349, 11-12=-618/150, 12-13=-1067/212
BOT CHORD	2-24=-281/1102, 23-24=-340/1323, 20-23=-340/1323, 17-21=-879/309, 16-17=-229/850, 15-16=-130/823
WEBS	9-16=-183/583, 10-16=-265/227, 10-15=-348/110, 8-16=-286/244, 25-26=-286/76, 21-26=-285/76, 5-27=-491/194, 20-21=-372/344, 21-27=-541/271, 7-27=-536/269, 8-21=-513/839, 14-15=-620/147, 11-15=-387/244, 12-14=-159/720, 17-20=-412/1734

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-6 to 2-1-10, Interior(1) 2-1-10 to 15-4-8, Exterior(2) 15-4-8 to 19-7-7, Interior(1) 19-7-7 to 21-1-0, Exterior(2) 21-1-0 to 25-4-8, Interior(1) 25-4-8 to 30-6-4 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) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=138.
9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 20. This connection is for uplift only and does not consider lateral forces.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

February 11,2021

LOAD CASE(S) Standard

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-60, 8-9=-60, 9-12=-60, 24-28=-20, 24-37=-60(F=-40), 19-37=-20, 13-14=-20, 15-17=-20

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	C01	ATTIC	2	1	I44760256
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:38 2021 Page 1

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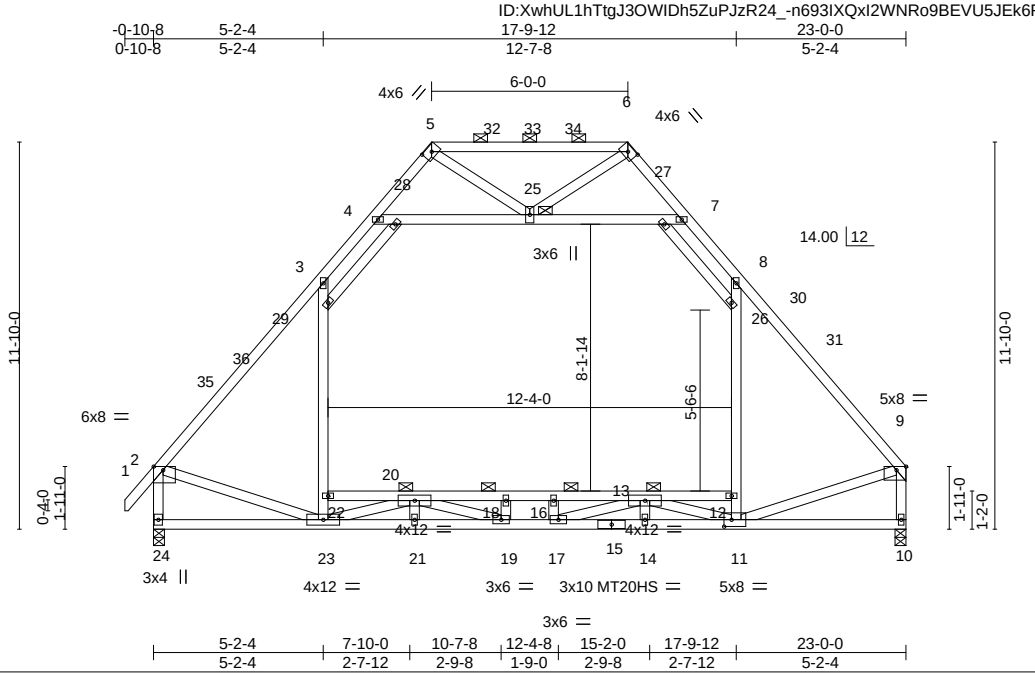

Plate Offsets (X,Y)-- [2:Edge,0-1-5], [5:0-3-2,0-2-0], [6:0-3-2,0-2-0], [9:Edge,0-1-5], [11:0-2-12,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.26	17-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.48	17-19	>570	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	-0.05	24	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.20	12	>999	240	Weight: 198 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP SS *Except*
5-6: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
15-24: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
8-11,3-23,9-10,2-24,4-7: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 14-17
9-9-15 oc bracing: 10-11.
3-1-0 oc bracing: 12-22
JOINTS 1 Brace at Jt(s): 25

REACTIONS. (size) 10=0-4-0, 24=0-4-0
Max Horz 10=341(LC 9)
Max Grav 10=1492(LC 2), 24=1543(LC 2)

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

TOP CHORD 6-7=-321/142, 7-8=-1066/288, 8-9=-1454/0, 2-3=-1465/0, 3-4=-1048/288, 4-5=-323/145, 9-10=-1448/0, 2-24=-1499/0
BOT CHORD 21-23=0/2660, 19-21=0/2660, 17-19=0/3509, 14-17=0/2746, 11-14=0/2746, 10-11=-321/420, 20-22=-312/282, 18-20=-2782/0, 16-18=-2782/0, 13-16=-2782/0, 12-13=-314/272
WEBS 11-12=0/515, 12-26=0/714, 8-26=-55/689, 22-23=0/532, 22-29=0/730, 3-29=-50/716, 9-11=0/824, 2-23=0/803, 26-27=-274/358, 28-29=-279/351, 4-28=-1093/158, 25-28=-936/74, 25-27=-935/78, 7-27=-1113/164, 11-13=-2001/0, 13-17=-47/943, 20-23=-2003/0, 19-20=-67/974

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-15 to 2-2-1, Interior(1) 2-2-1 to 8-6-0, Exterior(2) 8-6-0 to 12-8-15, Interior(1) 12-8-15 to 14-6-0, Exterior(2) 14-6-0 to 18-8-15, Interior(1) 18-8-15 to 22-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) Ceiling dead load (5.0 psf) on member(s). 7-8, 3-4, 4-28, 25-28, 25-27, 7-27; Wall dead load (5.0psf) on member(s).12-26, 8-26, 22-29, 3-29
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 20-22, 18-20, 16-18, 13-16, 12-13
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	C01G	GABLE	1	1	I44760257
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:41 2021 Page 1
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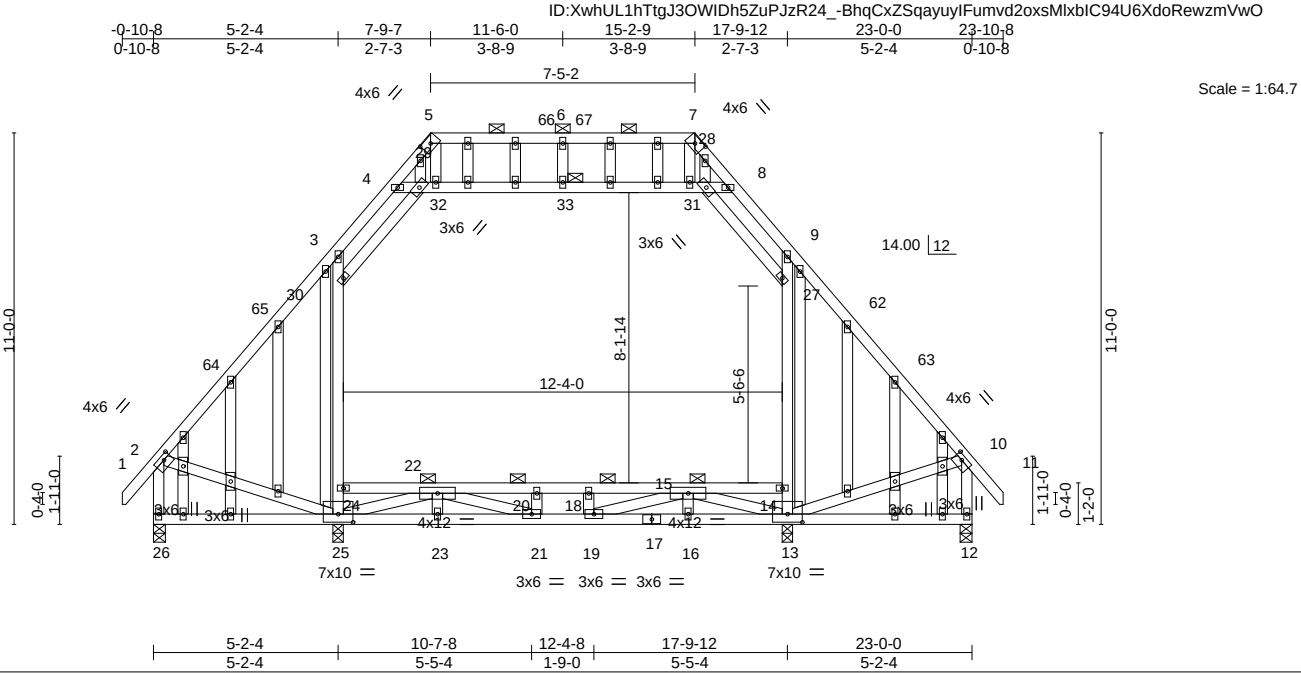

Plate Offsets (X,Y)-- [2:0-2-8,0-1-8], [5:0-3-2,0-2-0], [7:0-3-2,0-2-0], [10:0-2-8,0-1-8], [13:0-5-0,0-2-12], [25:0-5-0,0-2-12]

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	0.30	Vert(LL)	-0.13	19-21	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.22	18-20	>700	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	-0.04	26	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.01	21	>999	240	Weight: 254 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 9-13,3-25,10-12,2-26,4-8: 2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 3-4-0 oc bracing: 14-24
JOINTS	1 Brace at Jt(s): 33

REACTIONS. All bearings 0-4-0 except (jt=length) 13=0-3-8, 25=0-3-8.
(lb) - Max Horz 12=-330(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 26 except 12=-109(LC 9), 13=-184(LC 13), 25=-179(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 12=546(LC 1), 13=1326(LC 21), 25=1316(LC 20), 26=546(LC 1)

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

TOP CHORD	7-8=-575/191, 8-9=-408/147, 9-10=-439/185, 2-3=-439/173, 3-4=-408/146, 4-5=-575/187, 10-12=-509/130, 2-26=-509/119, 5-6=-430/151, 6-7=-430/151
BOT CHORD	23-25=0/1786, 21-23=0/1786, 19-21=0/2626, 16-19=0/1786, 13-16=0/1786, 12-13=-317/354, 20-22=-2545/0, 18-20=-2545/0, 15-18=-2545/0
WEBS	13-14=-637/268, 14-27=-525/349, 9-27=-429/370, 24-25=-627/263, 24-30=-525/345, 3-30=-430/369, 10-13=-247/376, 2-25=-245/375, 13-15=-1947/0, 15-19=0/880, 22-25=-1947/0, 21-22=0/880

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-15 to 2-2-1, Interior(1) 2-2-1 to 7-9-7, Exterior(2) 7-9-7 to 12-0-5, Interior(1) 12-0-5 to 15-2-9, Exterior(2) 15-2-9 to 19-5-8, Interior(1) 19-5-8 to 23-9-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 1-4-0 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) Ceiling dead load (5.0 psf) on member(s). 8-9, 3-4, 4-29, 29-32, 32-33, 31-33, 28-31, 8-28; Wall dead load (5.0psf) on member(s).14-27, 9-27, 24-30, 3-30
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 22-24, 20-22, 18-20, 15-18, 14-15
11) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12, 13, 25, and 26. This connection is for uplift only and does not consider lateral forces.

Continued on page 2

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NOTES-

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	C04	ATTIC	2	1	I44760258
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:43 2021 Page 1

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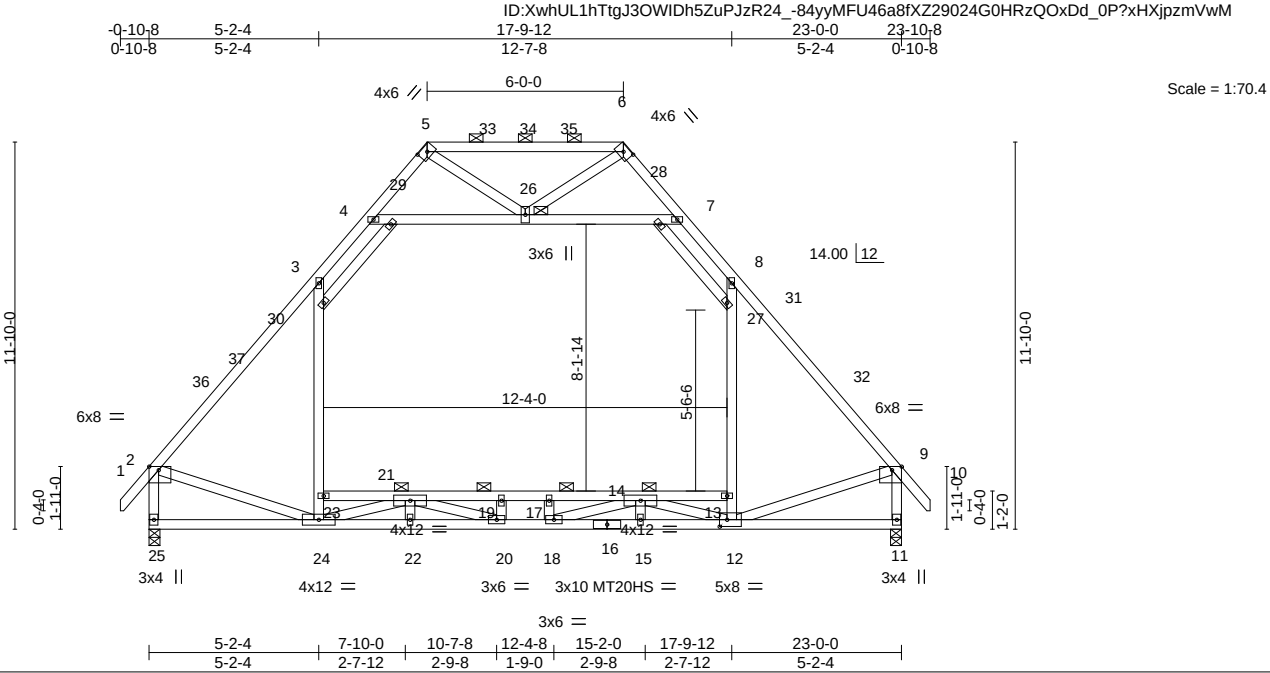

Plate Offsets (X,Y)-- [2:Edge,0-1-5], [5:0-3-2,0-2-0], [6:0-3-2,0-2-0], [9:Edge,0-1-5], [12:0-2-12,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.26	18-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.47	18-20	>574	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	-0.05	25	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.20	13	>999	240	Weight: 200 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP SS *Except*
5-6: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
16-25: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
8-12,3-24,9-11,2-25,4-7: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 15-18
9-3-9 oc bracing: 11-12.
3-1-0 oc bracing: 13-23
JOINTS 1 Brace at Jt(s): 26

REACTIONS. (size) 11=0-4-0, 25=0-4-0
Max Horz 11=352(LC 11)
Max Grav 11=1542(LC 2), 25=1542(LC 2)

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

TOP CHORD 6-7=-323/142, 7-8=-1050/288, 8-9=-1463/0, 2-3=-1464/0, 3-4=-1051/287, 4-5=-323/144, 9-11=-1497/0, 2-25=-1497/0
BOT CHORD 22-24=0/2660, 20-22=0/2660, 18-20=0/3505, 15-18=0/2731, 12-15=0/2731, 11-12=-346/465, 21-23=-314/280, 19-21=-2779/0, 17-19=-2779/0, 14-17=-2779/0, 13-14=-306/273
WEBS 12-13=0/529, 13-27=0/728, 8-27=-46/708, 23-24=0/531, 23-30=0/728, 3-30=-52/712, 9-12=0/798, 2-24=0/802, 27-28=-274/351, 29-30=-277/353, 4-29=-1091/158, 26-29=-932/76, 26-28=-927/75, 7-28=-1095/161, 12-14=-2002/0, 14-18=-44/951, 21-24=-2002/0, 20-21=-68/965

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-15 to 2-2-1, Interior(1) 2-2-1 to 8-6-0, Exterior(2) 8-6-0 to 12-8-15, Interior(1) 12-8-15 to 14-6-0, Exterior(2) 14-6-0 to 18-8-15, Interior(1) 18-8-15 to 23-9-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) Ceiling dead load (5.0 psf) on member(s). 7-8, 3-4, 4-29, 26-29, 26-28, 7-28; Wall dead load (5.0psf) on member(s).13-27, 8-27, 23-30, 3-30
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 21-23, 19-21, 17-19, 14-17, 13-14
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	C05	ATTIC	3	1	I44760259
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:44 2021 Page 1
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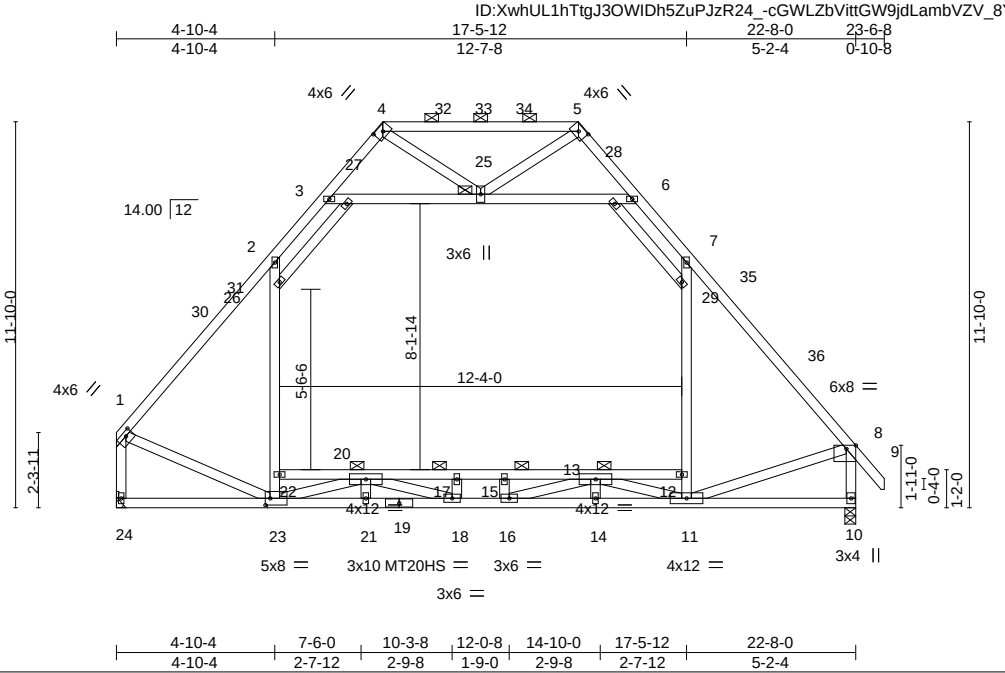

Plate Offsets (X,Y)-- [1:0-2-8,0-1-8], [4:0-3-2,0-2-0], [5:0-3-2,0-2-0], [8:Edge,0-1-5], [23:0-1-12,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.26	16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.46	15	>583	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.20	12	>999	240	Weight: 197 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP SS *Except*
4-5: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
10-19: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
2-23,7-11,1-24,8-10,3-6: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
9-9-0 oc bracing: 23-24
2-2-0 oc bracing: 21-23.
3-1-0 oc bracing: 12-22
JOINTS 1 Brace at Jt(s): 25

REACTIONS. (size) 24=Mechanical, 10=0-4-0
Max Horz 24=-345(LC 8)
Max Grav 24=1491(LC 2), 10=1521(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1377/0, 2-3=-974/284, 3-4=-328/141, 5-6=-327/143, 6-7=-1076/285, 7-8=-1437/0, 1-24=-1458/0, 8-10=-1471/0
BOT CHORD 23-24=-312/389, 21-23=0/2652, 18-21=0/2652, 16-18=0/3475, 14-16=0/2677, 11-14=0/2677, 20-22=-274/283, 17-20=-2773/0, 15-17=-2773/0, 13-15=-2773/0, 12-13=-337/271
WEBS 22-23=0/466, 22-26=0/661, 2-26=-49/689, 11-12=0/522, 12-29=0/719, 7-29=-60/664, 1-23=0/836, 8-11=0/783, 26-27=-285/317, 28-29=-268/378, 3-27=-1016/156, 25-27=-893/76, 25-28=-893/78, 6-28=-1085/158, 20-23=-2007/0, 18-20=-37/1002, 11-13=-1998/0, 13-16=-78/912

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 8-6-0, Exterior(2) 8-6-0 to 12-8-15, Interior(1) 12-8-15 to 14-6-0, Exterior(2) 14-6-0 to 18-8-15, Interior(1) 18-8-15 to 23-9-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) Ceiling dead load (5.0 psf) on member(s). 2-3, 6-7, 3-27, 25-27, 25-28, 6-28; Wall dead load (5.0psf) on member(s).22-26, 2-26, 12-29, 7-29
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 20-22, 17-20, 15-17, 13-15, 12-13
10) Refer to girder(s) for truss to truss connections.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	D01	HIP	1	1	I44760260
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:46 2021 Page 1
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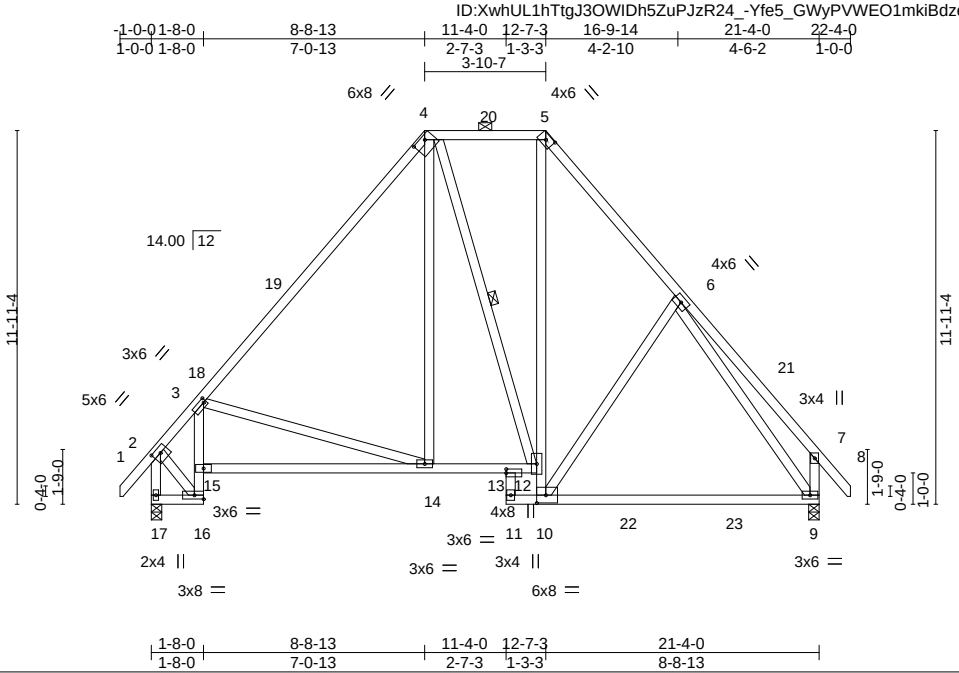

Plate Offsets (X,Y)-- [2:0-3-0,0-2-1], [3:0-1-0,0-1-8], [4:0-4-12,0-1-8], [5:0-3-2,0-2-0], [10:0-3-8,0-3-0], [13:0-0-0,0-1-8]

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	0.76	Vert(LL)	-0.18	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.32	9-10	>787	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.12	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.05	13-14	>999	240	Weight: 178 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
11-13: 2x4 SP No.3
WEBS 2x4 SP No.3

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

REACTIONS. (size) 17=0-4-0, 9=0-4-0
Max Horz 17=357(LC 11)
Max Uplift 17=-88(LC 12), 9=-88(LC 13)
Max Grav 17=907(LC 1), 9=907(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-596/114, 3-4=-829/217, 4-5=-495/258, 5-6=-698/292, 6-7=-339/218, 2-17=-993/186, 7-9=-381/232
BOT CHORD 16-17=-334/312, 15-16=-410/131, 3-15=-343/169, 14-15=-406/916, 13-14=-120/513, 10-11=-68/353, 9-10=-9/448
WEBS 3-14=-476/427, 4-14=-51/313, 10-12=-129/519, 5-12=-152/365, 6-10=-254/279, 2-16=-179/652, 6-9=-667/67

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-11-7 to 2-0-9, Interior(1) 2-0-9 to 8-8-13, Exterior(2) 8-8-13 to 16-11-15, Interior(1) 16-11-15 to 22-3-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17 and 9. This connection is for uplift only and does not consider lateral forces.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	D01G	GABLE	1	1	I44760261
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 15:44:04 2021 Page 1

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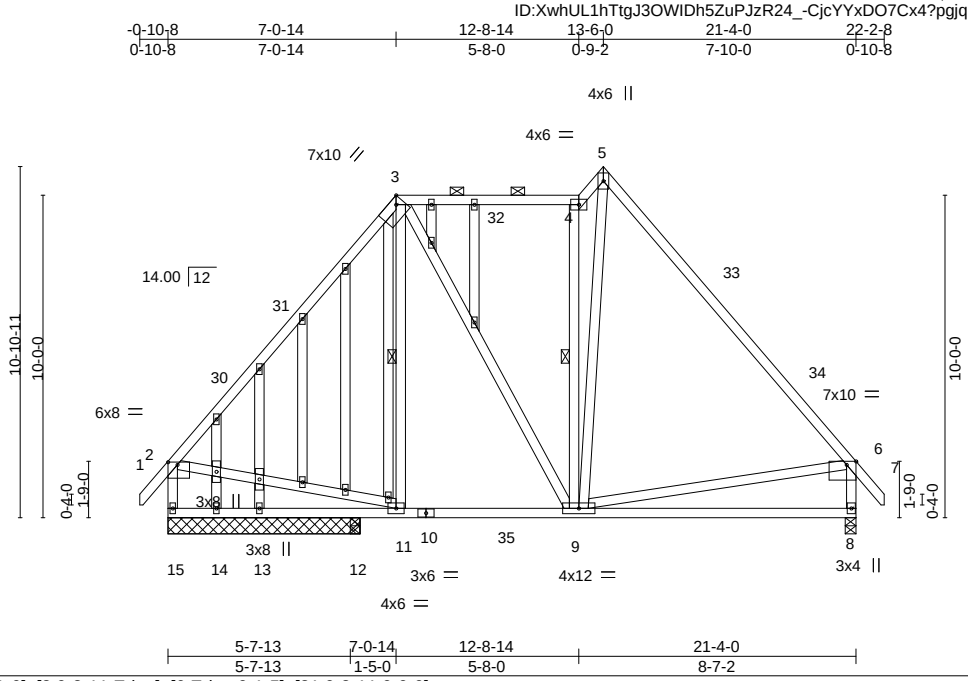

Plate Offsets (X,Y)-- [2:0-3-8,0-1-0], [3:0-2-11,Edge], [6:Edge,0-1-5], [21:0-2-11,0-0-0]

LOADING (psf)		SPACING- 1-11-4		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.13	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.26	8-9	>707	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.02	9-11	>999	240	Weight: 216 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 5-7: 2x4 SP SS
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 2-15,6-8: 2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD	Rigid ceiling directly applied or 9-7-12 oc bracing.
WEBS	1 Row at midpt 3-11, 4-9

REACTIONS. All bearings 5-11-8 except (jt=length) 8=0-4-0, 12=0-3-8.
(lb) - Max Horz 15=-313(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 15=-185(LC 12), 8=-107(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 13, 14, 12 except 15=755(LC 1), 8=834(LC 1)

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

TOP CHORD	2-30=-698/165, 30-31=-558/193, 3-31=-549/221, 3-32=-458/229, 4-32=-458/229, 4-5=-495/192, 5-33=-543/200, 33-34=-569/168, 6-34=-750/138, 2-15=-722/221, 6-8=-757/211
BOT CHORD	14-15=-378/441, 13-14=-378/441, 12-13=-378/441, 11-12=-378/441, 10-11=-112/449, 10-35=-112/449, 9-35=-112/449, 8-9=-214/341
WEBS	4-9=-502/136, 5-9=-156/584, 2-11=-159/376, 6-9=-161/369

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-15 to 2-2-1, Interior(1) 2-2-1 to 7-0-14, Exterior(2) 7-0-14 to 10-0-14, Interior(1) 10-0-14 to 13-6-0, Exterior(2) 13-6-0 to 16-6-0, Interior(1) 16-6-0 to 22-1-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) All bearings are assumed to be User Defined crushing capacity of 565 psi.
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.

February 11,2021

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	D02	HIP	1	1	I44760262
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:48 2021 Page 1
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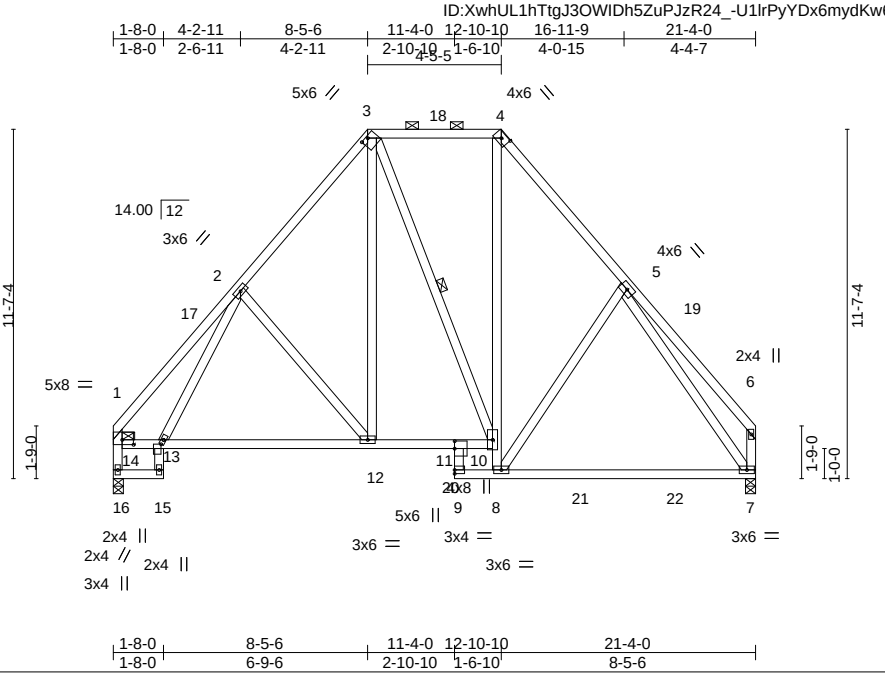

Plate Offsets (X,Y)-- [1:0-1-12,0-2-1], [1:0-4-8,0-1-15], [3:0-2-12,0-0-12], [4:0-3-2,0-2-0], [11:0-3-0,0-0-0], [13:0-1-12,0-1-0], [14:0-0-0,0-1-12]

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	0.47	Vert(LL)	-0.15	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.28	7-8	>907	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.04	11-12	>999	240	Weight: 175 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 13-15,9-11: 2x4 SP No.3
WEBS	2x4 SP No.3 *Except* 1-16: 2x4 SP No.2

BRACING-

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

REACTIONS. (size) 16=0-4-0, 7=0-4-0
Max Horz 16=-314(LC 8)
Max Uplift 16=-76(LC 13), 7=-76(LC 12)
Max Grav 16=842(LC 1), 7=846(LC 2)

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

TOP CHORD	1-2=-925/175, 2-3=-759/283, 3-4=-489/253, 4-5=-707/290, 5-6=-282/158, 14-16=-792/149, 1-14=-762/153, 6-7=-273/139
BOT CHORD	13-14=-121/721, 12-13=-234/687, 11-12=-132/523, 8-9=-52/387, 7-8=-63/451
WEBS	3-12=-133/446, 8-10=-128/421, 4-10=-111/327, 5-8=-242/267, 5-7=-686/84, 2-12=-305/266, 2-13=-182/254

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 8-5-6, Exterior(2) 8-5-6 to 17-1-11, Interior(1) 17-1-11 to 21-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16 and 7. This connection is for uplift only and does not consider lateral forces.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 11,2021

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	D03GR	COMMON GIRDER	1	3	I44760263
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:49 2021 Page 1
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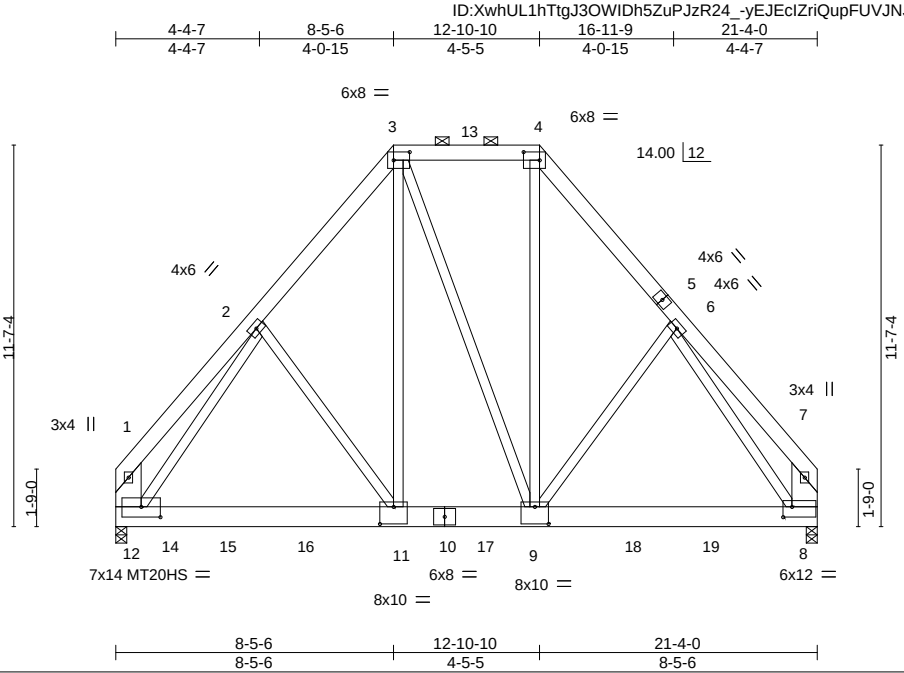

Plate Offsets (X,Y)-- [3:0-5-14,0-3-0], [4:0-5-14,0-3-0], [8:0-3-4,0-3-12], [9:0-5-0,0-6-4], [11:0-5-0,0-6-4], [12:0-7-0,0-3-12]

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	0.23	Vert(LL)	-0.11	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.22	11-12	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.77	Horz(CT)	-0.02	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.11	11-12	>999	240	Weight: 713 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.3 *Except*
7-8,1-12: 2x10 SP DSS

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

REACTIONS. (size) 8=0-4-0 (req. 0-4-8), 12=0-4-0 (req. 0-4-8)
Max Horz 8=308(LC 5)
Max Uplift 8=-1888(LC 8), 12=-1883(LC 9)
Max Grav 8=11489(LC 15), 12=11447(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-6=-8640/1576, 6-7=-4193/769, 3-4=-5615/1106, 1-2=-4585/825, 2-3=-8633/1576, 7-8=-3272/620, 1-12=-3591/662
BOT CHORD 11-12=-835/5147, 9-11=-957/5537, 8-9=-1011/5104
WEBS 6-9=-197/686, 4-9=-1134/6345, 3-9=-139/713, 3-11=-1155/6437, 2-11=-183/668, 6-8=-4803/788, 2-12=-4343/730

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) WARNING: Required bearing size at joint(s) 8, 12 greater than input bearing size.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=1888, 12=1883.
11) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

February 11,2021

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-7=-60, 3-4=-60, 1-3=-60, 12-14=-20, 9-14=-980(F=-960), 8-9=-915(F=-895)

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	E01	SPECIAL	5	1	I44760264
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:50 2021 Page 1
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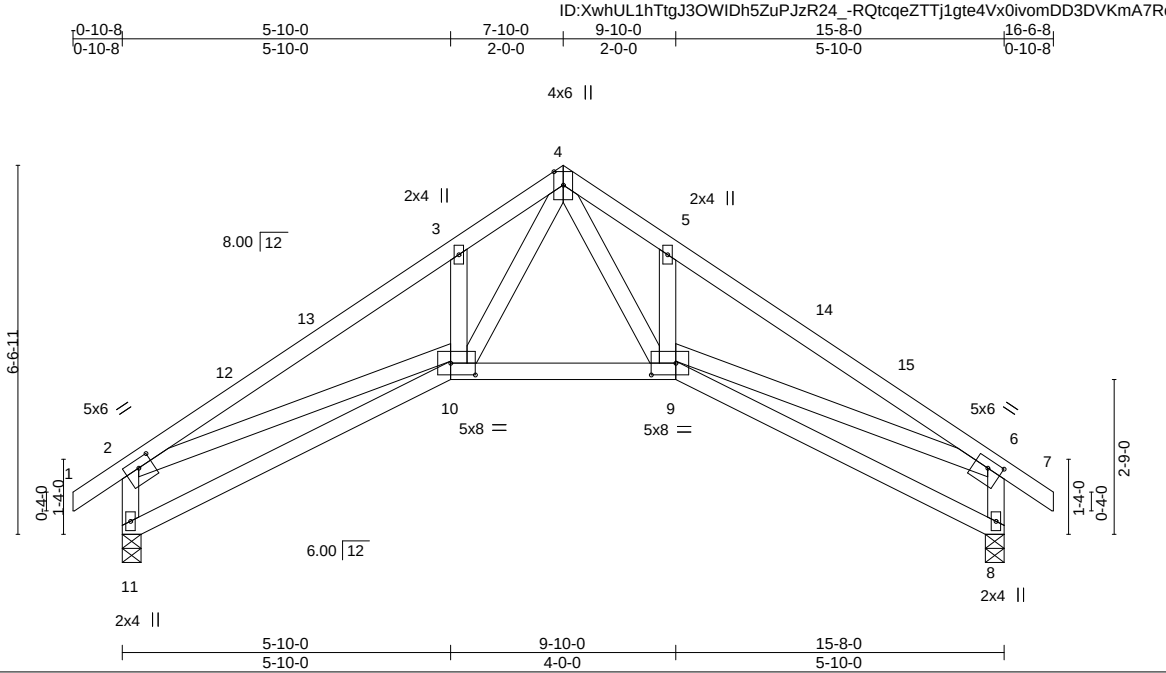

Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [6:0-3-0,0-1-12], [9:0-5-4,0-2-8], [10:0-5-4,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.06	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.12	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.11	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.04	10	>999	240	Weight: 95 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 4-8-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-4-0, 8=0-4-0
Max Horz 11=190(LC 11)
Max Uplift 11=-64(LC 12), 8=-64(LC 13)
Max Grav 11=675(LC 1), 8=675(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-700/171, 2-3=-1370/145, 3-4=-1376/290, 4-5=-1350/260, 5-6=-1370/135, 6-8=-692/188
BOT CHORD 10-11=-214/355, 9-10=0/706, 8-9=-88/251
WEBS 4-9=-177/843, 5-9=-323/233, 6-9=0/939, 4-10=-252/917, 3-10=-328/229, 2-10=0/931

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-6 to 2-1-10, Interior(1) 2-1-10 to 7-10-0, Exterior(2) 7-10-0 to 12-0-15, Interior(1) 12-0-15 to 16-6-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) Bearing at joint(s) 11, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 8. This connection is for uplift only and does not consider lateral forces.

February 11,2021

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	E01G	GABLE	1	1	I44760265
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:52 2021 Page 1
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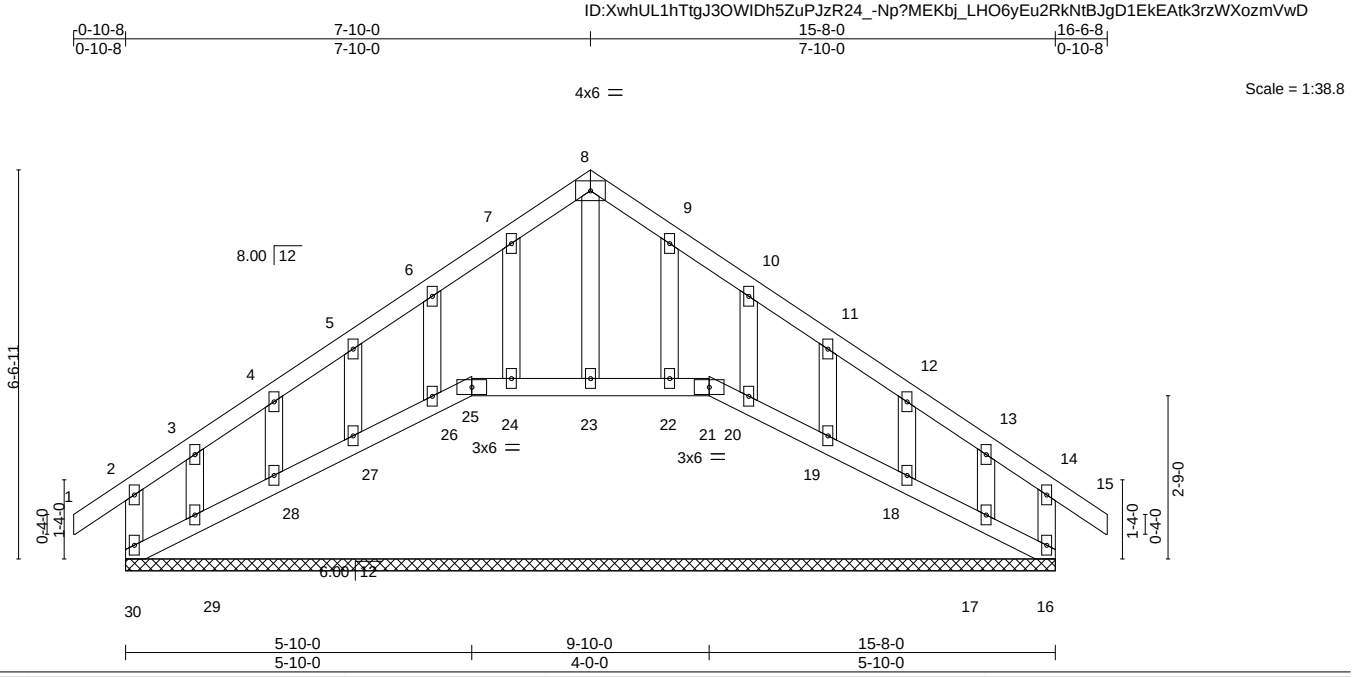

LOADING (psf)		SPACING-	1-11-4	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	15	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	-0.00	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 90 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
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 15-8-0.
(lb) - Max Horz 30=184(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 16, 25, 21, 24, 26, 27, 28, 22, 20, 19, 18 except 30=-187(LC 8), 29=-145(LC 9), 17=-124(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 30, 16, 25, 21, 23, 24, 26, 27, 28, 29, 22, 20, 19, 18, 17

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-6 to 2-1-10, Exterior(2) 2-1-10 to 7-10-0, Corner(3) 7-10-0 to 10-10-0, Exterior(2) 10-10-0 to 16-6-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 21, 24, 26, 27, 28, 22, 20, 19, 18 except (jt=lb) 29=145, 17=124.
11) N/A
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 25, 21, 23, 24, 26, 27, 28, 29, 22, 20, 19, 18, 17.

February 11,2021

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	E02	SPECIAL	3	1	I44760266
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:53 2021 Page 1
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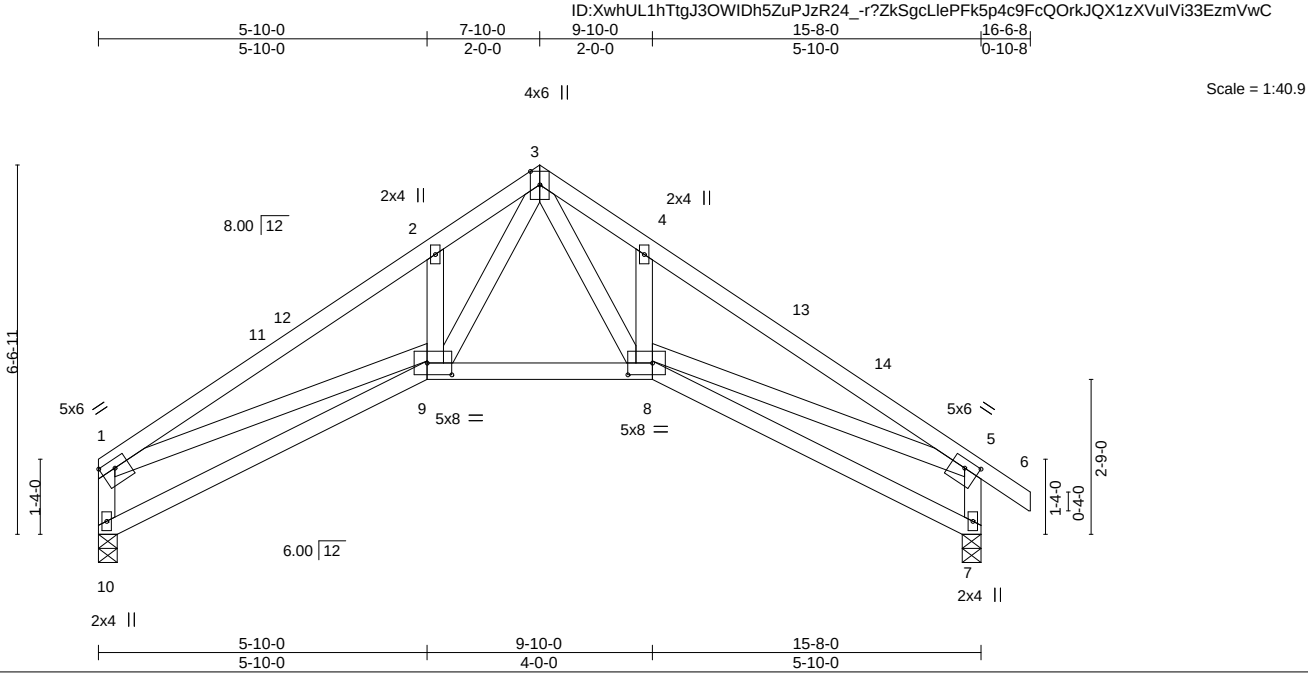

Plate Offsets (X,Y)-- [1:Edge,0-1-12], [5:0-3-0,0-1-12], [8:0-5-4,0-2-8], [9:0-5-4,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.06	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.12	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.11	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.04	9	>999	240	Weight: 93 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 4-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-4-0
Max Horz 10=-184(LC 8)
Max Uplift 10=-43(LC 12), 7=-64(LC 13)
Max Grav 10=613(LC 1), 7=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-620/127, 1-2=-1385/145, 2-3=-1411/299, 3-4=-1357/259, 4-5=-1377/134, 5-7=-694/187
BOT CHORD 9-10=-191/310, 8-9=0/708, 7-8=-88/250
WEBS 3-8=-177/847, 4-8=-325/234, 5-8=0/943, 3-9=-267/955, 2-9=-358/250, 1-9=0/989

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-10-0, Exterior(2) 7-10-0 to 12-0-15, Interior(1) 12-0-15 to 16-6-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) Bearing at joint(s) 10, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 7. This connection is for uplift only and does not consider lateral forces.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	J01	JACK	3	1	I44760267

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:54 2021 Page 1

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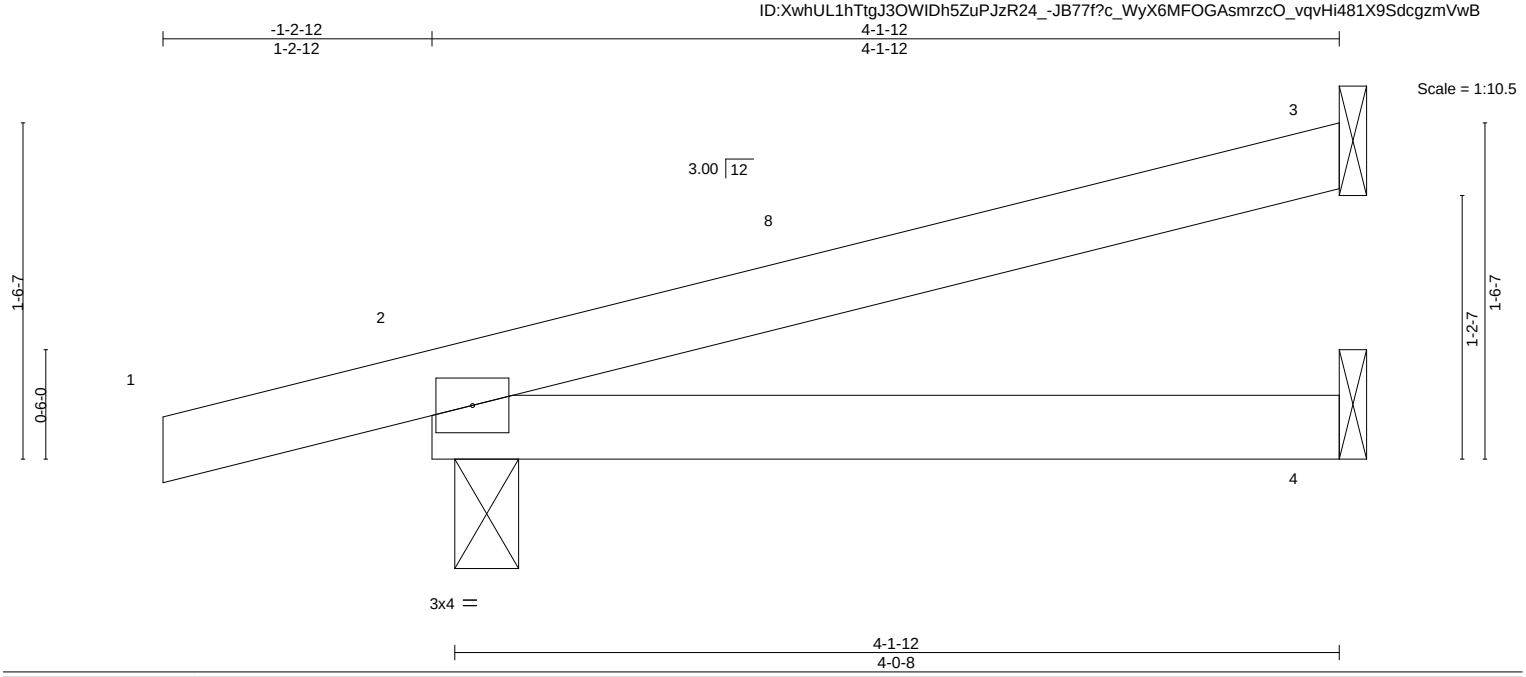

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.01	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	4-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.01	4-7	>999	240	Weight: 15 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 4-1-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=56(LC 8)
Max Uplift 3=-47(LC 12), 2=-81(LC 8)
Max Grav 3=104(LC 1), 2=248(LC 1), 4=74(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-2-12 to 1-9-4, Interior(1) 1-9-4 to 4-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

February 11,2021

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TRENCO
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	J02	JACK	2	1	I44760268
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:55 2021 Page 1
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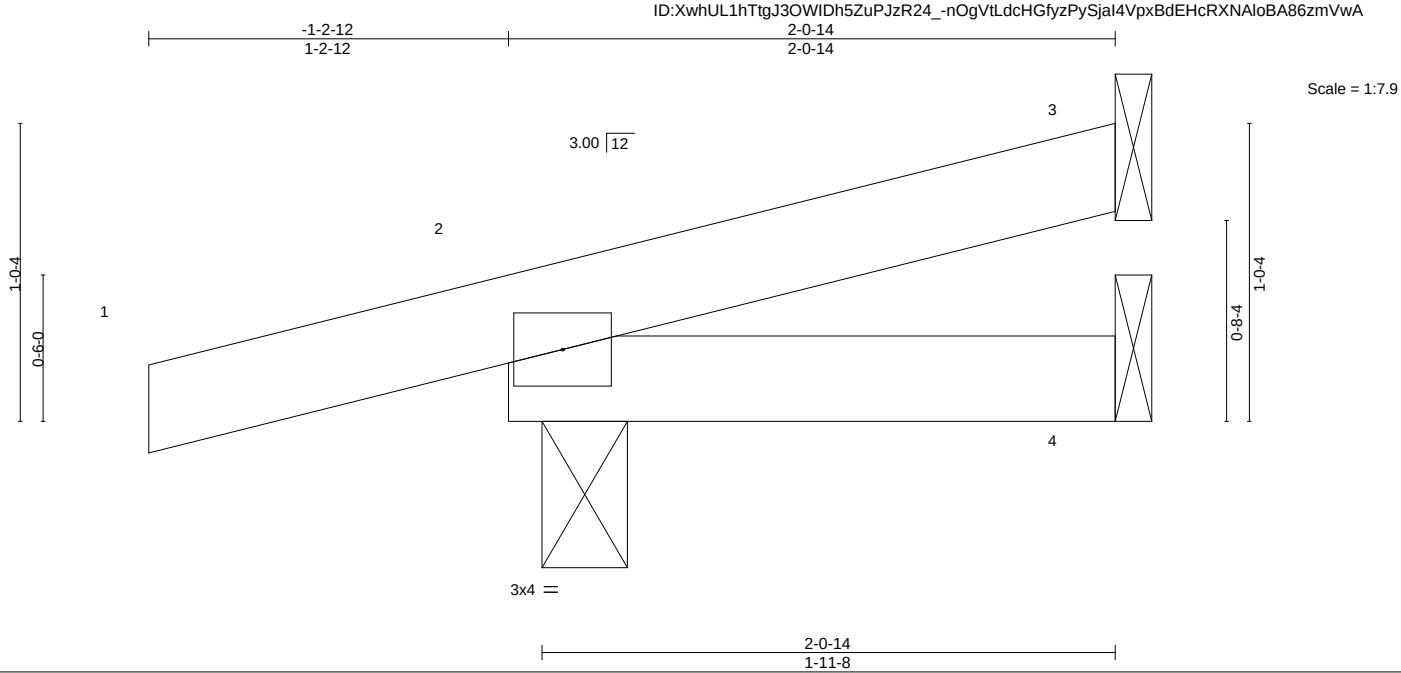

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	-0.00	7	>999	240	Weight: 8 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 2-0-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=36(LC 8)
Max Uplift 3=-19(LC 12), 2=-75(LC 8)
Max Grav 3=42(LC 1), 2=177(LC 1), 4=33(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

February 11,2021

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	M02GR	JACK	1	1	I44760269

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:55 2021 Page 1

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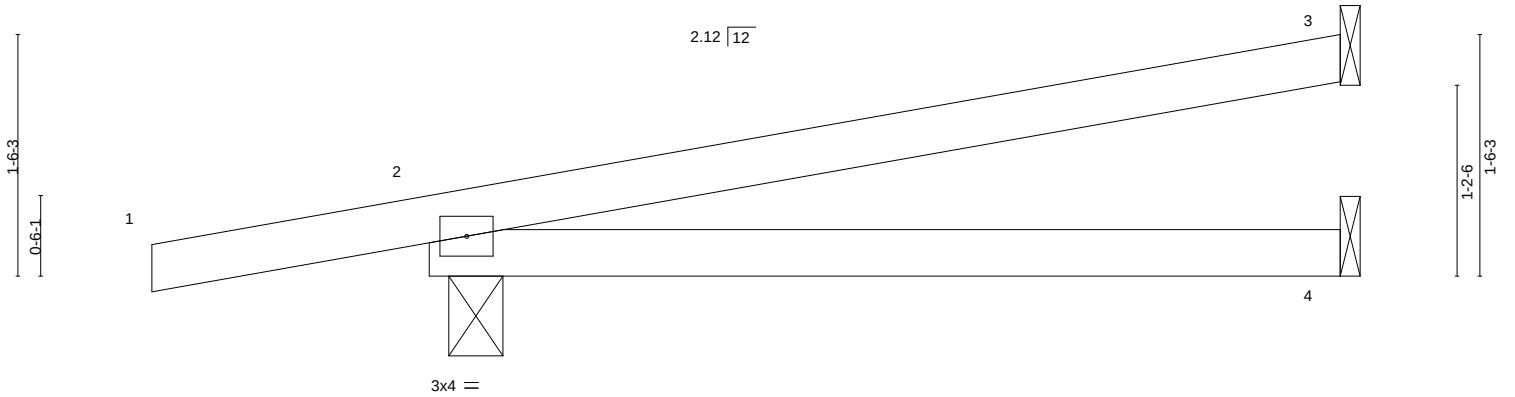

5-8-9 / 5-7-1

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.05	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.12	4-7	>570	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.05	4-7	>999	240	Weight: 20 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 5-8-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-1, 4=Mechanical
Max Horz 2=55(LC 4)
Max Uplift 3=-70(LC 8), 2=-142(LC 4)
Max Grav 3=189(LC 1), 2=462(LC 1), 4=124(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-78(F=-18), 4-5=-30(F=-10)

NORTH CAROLINA PROFESSIONAL SEAL 044925 ENGINEER SCOTT M. SEVIER

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	N01G	GABLE	1	1	I44760270

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:57 2021 Page 1

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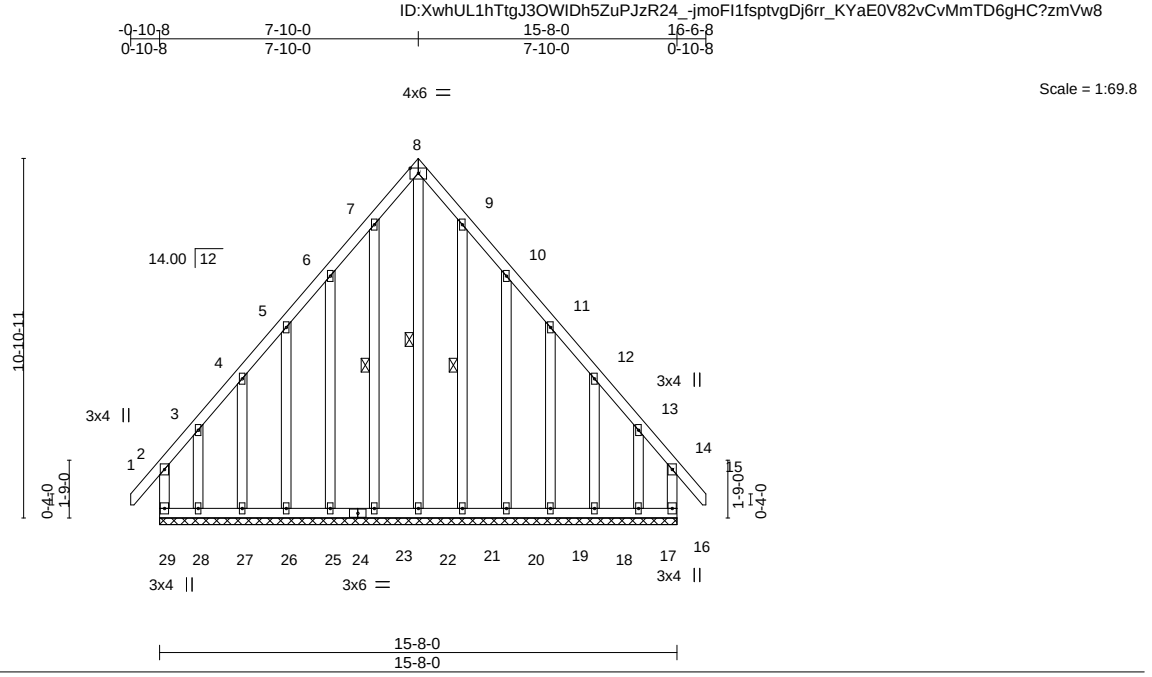

Plate Offsets (X,Y)-- [8:Edge,0-1-14]

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	0.22	Vert(LL)	-0.00	15	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.00	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	-0.00	16	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							Weight: 167 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
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.
WEBS	1 Row at midpt 8-22, 7-23, 9-21

REACTIONS. All bearings 15-8-0.

(lb) - Max Horz 29=323(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 23, 26, 27, 21, 19, 18 except 29=-356(LC 8), 16=-331(LC 9), 25=-113(LC 12), 28=-349(LC 9), 20=-113(LC 13), 17=-331(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 23, 25, 26, 27, 21, 20, 19, 18 except 29=412(LC 11), 16=385(LC 10), 22=462(LC 13), 28=396(LC 10), 17=377(LC 11)

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

TOP CHORD 2-29=-265/241, 2-3=-279/274, 5-6=-207/299, 6-7=-301/415, 7-8=-331/449, 8-9=-331/449, 9-10=-301/415, 10-11=-207/299, 13-14=-259/255

WEBS 8-22=-589/389

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-15 to 2-2-1, Exterior(2) 2-2-1 to 7-10-0, Corner(3) 7-10-0 to 10-10-0, Exterior(2) 10-10-0 to 16-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

February 11,2021

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	P01	SPECIAL	4	1	I44760271
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:58 2021 Page 1
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1-2-12 4-0-12 1-8-8 2-4-0

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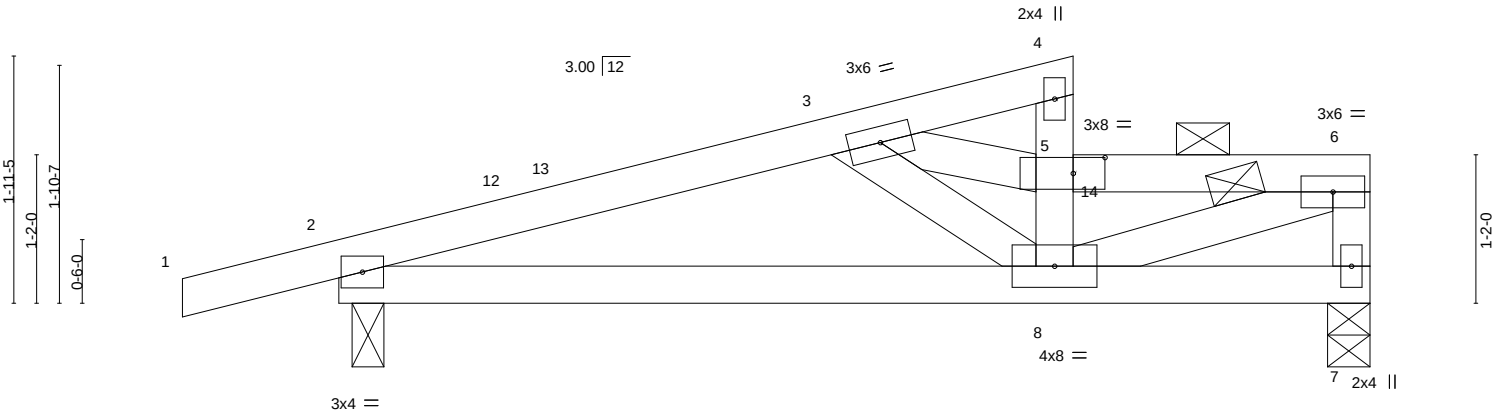

0-1-4 5-9-4 8-1-4
0-1-4 5-8-0 2-4-0

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

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	0.46	Vert(LL)	-0.03	8-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.06	8-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	8-11	>999	240	Weight: 37 lb	FT = 20%

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

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

REACTIONS. (size) 7=0-4-0, 2=0-3-0
Max Horz 2=87(LC 12)
Max Uplift 7=-113(LC 9), 2=-128(LC 8)
Max Grav 7=690(LC 1), 2=521(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-955/332, 5-8=-716/309, 5-6=-1369/525, 6-7=-633/267
BOT CHORD 2-8=-415/898
WEBS 6-8=-518/1332, 3-8=-102/556, 3-5=-1168/405

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-2-12 to 1-9-4, Interior(1) 1-9-4 to 7-11-8 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) 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 100 lb uplift at joint(s) except (jt=lb) 7=113, 2=128.
7) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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) 566 lb down and 193 lb up at 6-0-0 on top 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: 1-4=-60, 5-6=-60, 7-9=-20

February 11,2021

Continued on page 2

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

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 14=-500(F)

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	P02	SPECIAL	2	1	I44760272
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:58 2021 Page 1
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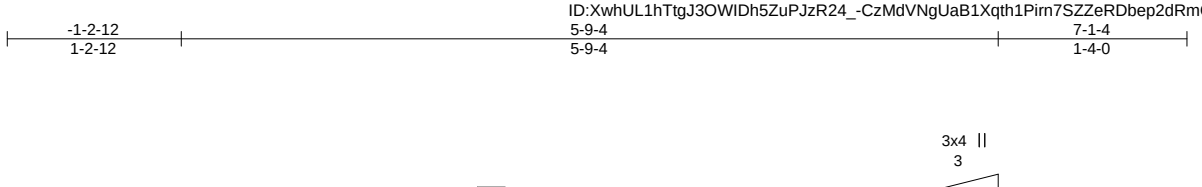

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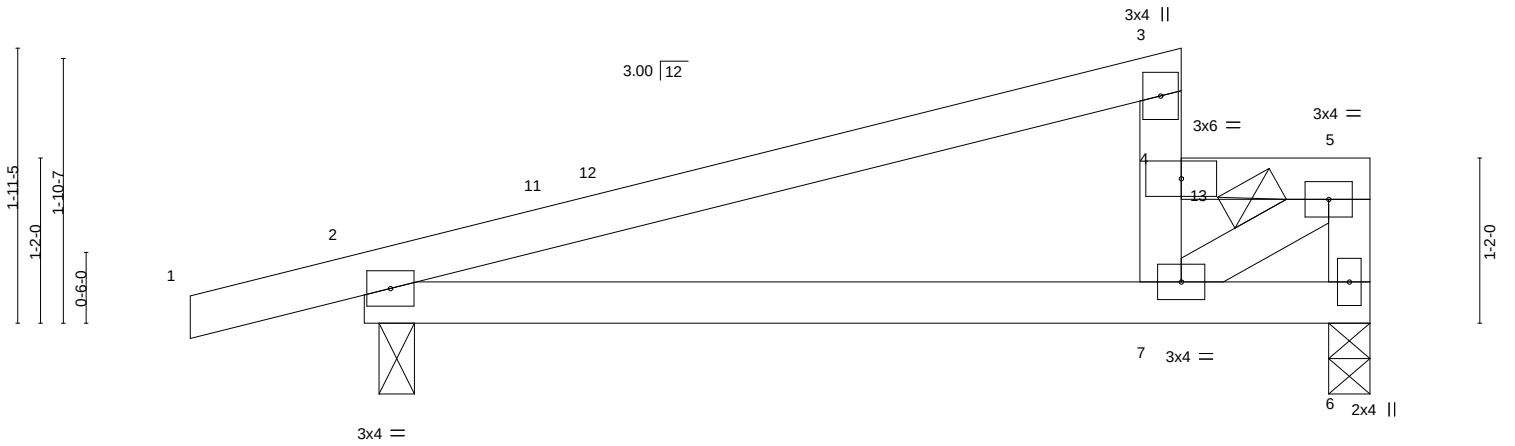


LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.03	7-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.06	7-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	7-10	>999	240	Weight: 28 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
3-7: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7, 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-0
Max Horz 2=86(LC 12)
Max Uplift 6=-121(LC 12), 2=-114(LC 8)
Max Grav 6=703(LC 1), 2=427(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-558/161, 4-7=-357/228, 4-5=-738/302, 5-6=-691/296
BOT CHORD 2-7=-239/505
WEBS 5-7=-331/785

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-2-12 to 1-9-4, Interior(1) 1-9-4 to 6-11-8 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) 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 100 lb uplift at joint(s) except (jt=lb) 6=121, 2=114.
7) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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) 566 lb down and 209 lb up at 6-0-0 on top 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: 1-3=-60, 4-5=-60, 6-8=-20

February 11,2021

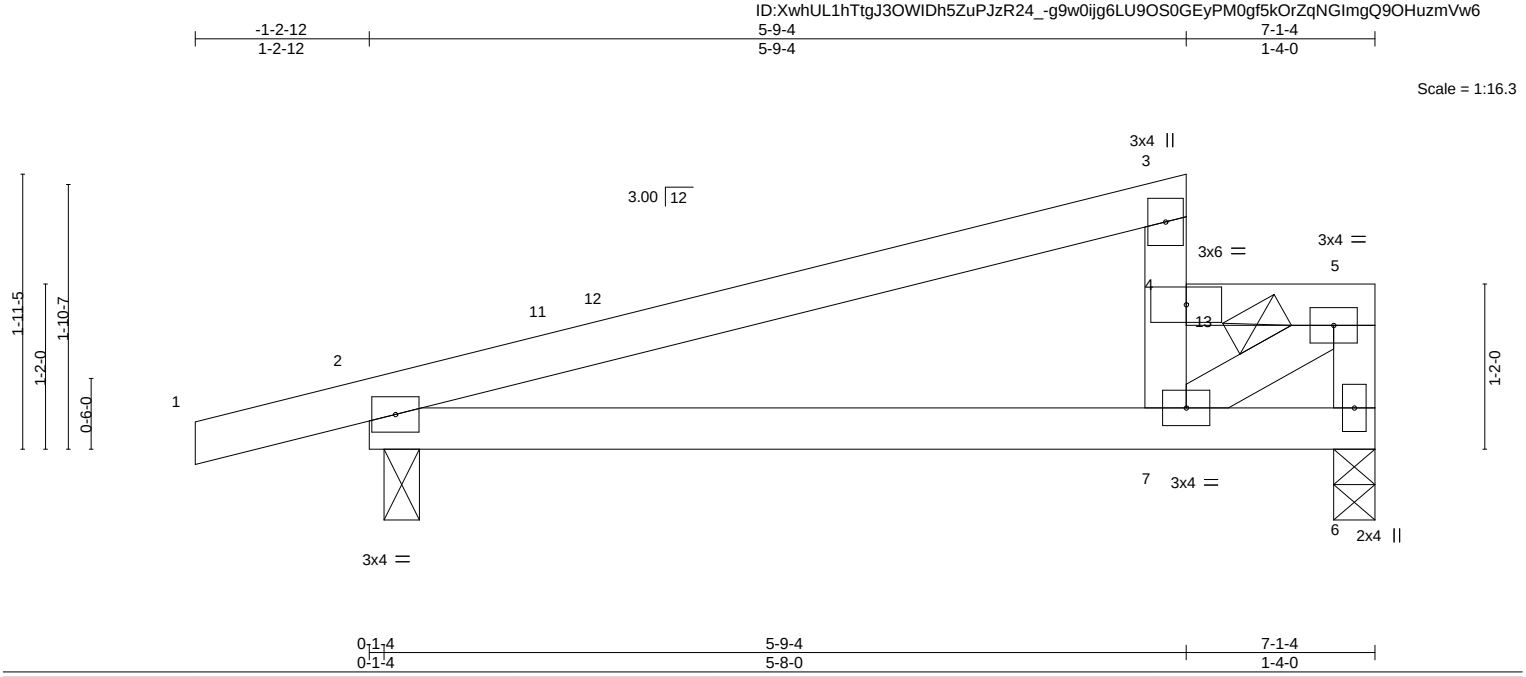
Continued on page 2

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

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 13=-500(F)

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	P03	SPECIAL	1	1	I44760273
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:49:59 2021 Page 1
ID:XwhUL1hTtgJ3OWIDh5ZuPJzR24_-g9w0ijg6LU9OS0GEyPM0gf5kOrZqNGImgQ9OHuzmVw6



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	0.62	Vert(LL)	-0.03	7-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.06	7-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	7-10	>999	240	Weight: 28 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
3-7: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7, 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-0
Max Horz 2=86(LC 12)
Max Uplift 6=-121(LC 12), 2=-114(LC 8)
Max Grav 6=703(LC 1), 2=427(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-558/161, 4-7=-357/228, 4-5=-738/302, 5-6=-691/296
BOT CHORD 2-7=-239/505
WEBS 5-7=-331/785

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-2-12 to 1-9-4, Interior(1) 1-9-4 to 6-11-8 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) 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 100 lb uplift at joint(s) except (jt=lb) 6=121, 2=114.
7) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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) 566 lb down and 209 lb up at 6-0-0 on top 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: 1-3=-60, 4-5=-60, 6-8=-20

February 11,2021

Continued on page 2

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

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 13=-500(F)

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	P04	SPECIAL	1	1	I44760274
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:00 2021 Page 1
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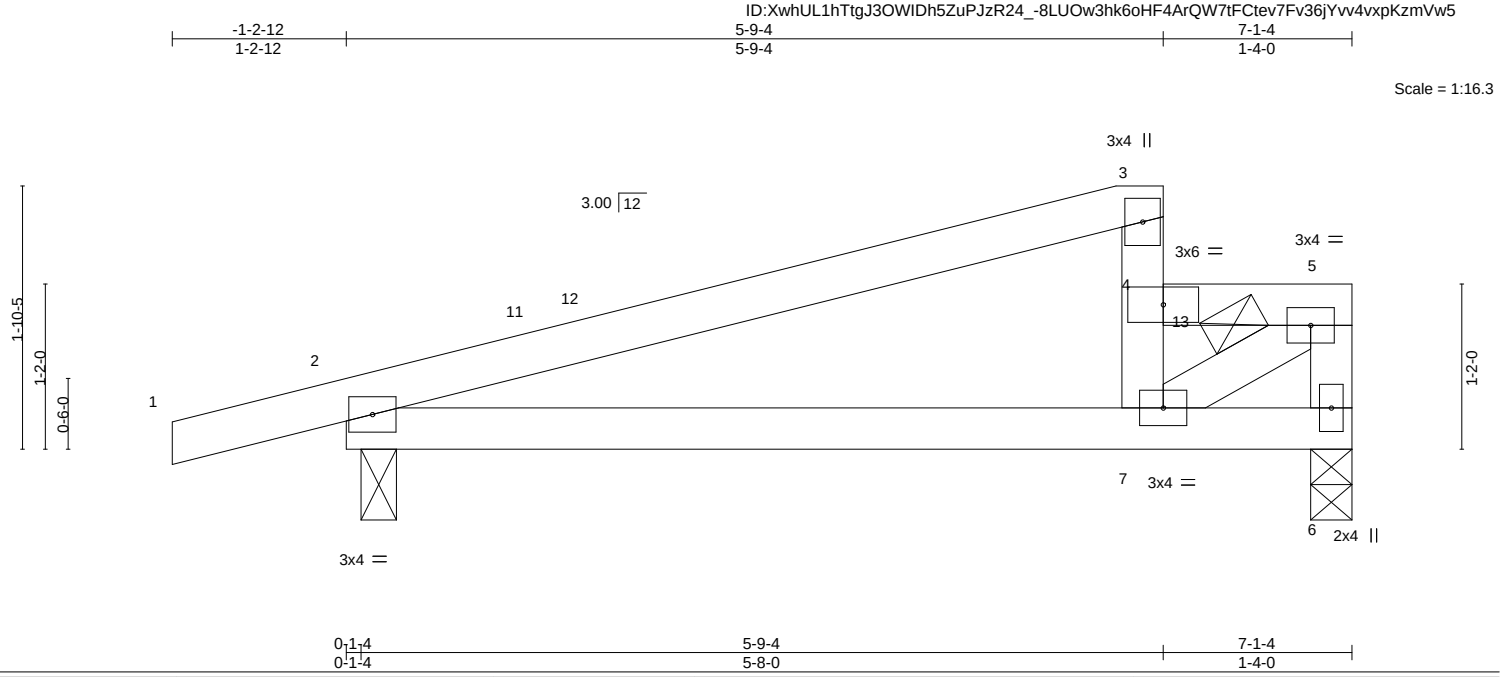

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.03	7-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.06	7-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	7-10	>999	240	Weight: 28 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
3-7: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7, 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-0
Max Horz 2=86(LC 12)
Max Uplift 6=-121(LC 12), 2=-114(LC 8)
Max Grav 6=703(LC 1), 2=427(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-558/161, 4-7=-357/228, 4-5=-738/302, 5-6=-691/296
BOT CHORD 2-7=-239/505
WEBS 5-7=-331/785

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-2-12 to 1-9-4, Interior(1) 1-9-4 to 6-11-8 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) 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 100 lb uplift at joint(s) except (jt=lb) 6=121, 2=114.
7) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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) 566 lb down and 209 lb up at 6-0-0 on top 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: 1-3=-60, 4-5=-60, 6-8=-20

February 11,2021

Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	P04	SPECIAL	1	1	I44760274
					Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 13=-500(F)

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	P05GR	MONO HIP	1	1	I44760275
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 15:45:49 2021 Page 1

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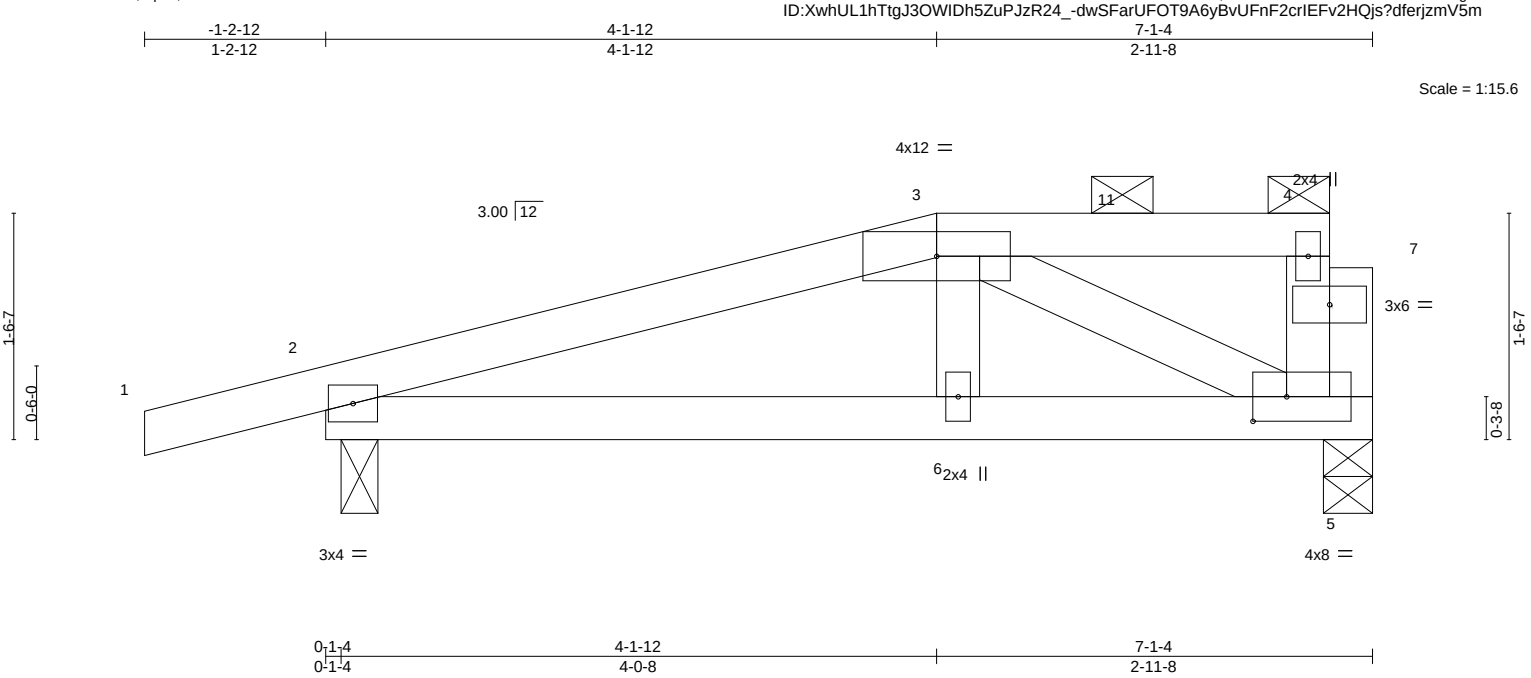

Plate Offsets (X,Y)-- [5:0-2-12,0-2-0]

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	0.35	Vert(LL)	-0.02	6-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.03	6-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.02	6-10	>999	240	Weight: 30 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-9-13 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-0, 5=0-4-0
Max Horz 2=57(LC 4)
Max Uplift 2=-166(LC 4), 5=-92(LC 4)
Max Grav 2=686(LC 1), 5=496(LC 1)

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

TOP CHORD	2-3=-843/134
BOT CHORD	2-6=-146/766, 5-6=-143/786
WEBS	3-5=-830/148

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 2 and 92 lb uplift at joint 5.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-110(F=-50), 3-4=-110(F=-50), 5-8=-45(F=-25)

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	PB00	PIGGYBACK	1	1	I44760276
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:02 2021 Page 1
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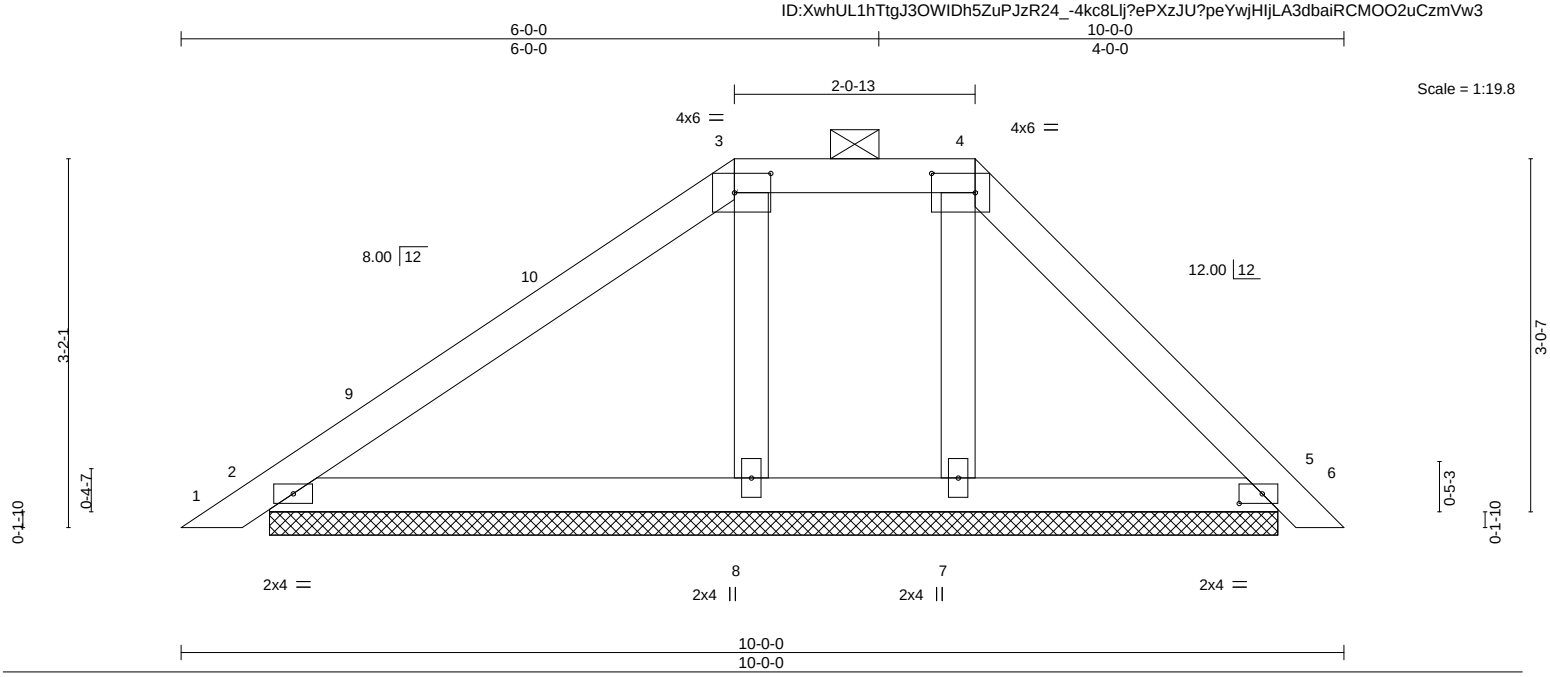

Plate Offsets (X,Y)-- [3:0-3-12,0-2-0], [4:0-4-8,0-2-0], [5:0-2-6,0-1-0]

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	0.21	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 38 lb	FT = 20%

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

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

REACTIONS. All bearings 8-8-1.
(lb) - Max Horz 2=-76(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 7, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 7 except 8=280(LC 23)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-2 to 3-3-2, Interior(1) 3-3-2 to 4-9-2, Exterior(2) 4-9-2 to 9-9-8 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) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
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) N/A
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 11,2021

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	PB01	PIGGYBACK	13	1	I44760277
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:02 2021 Page 1
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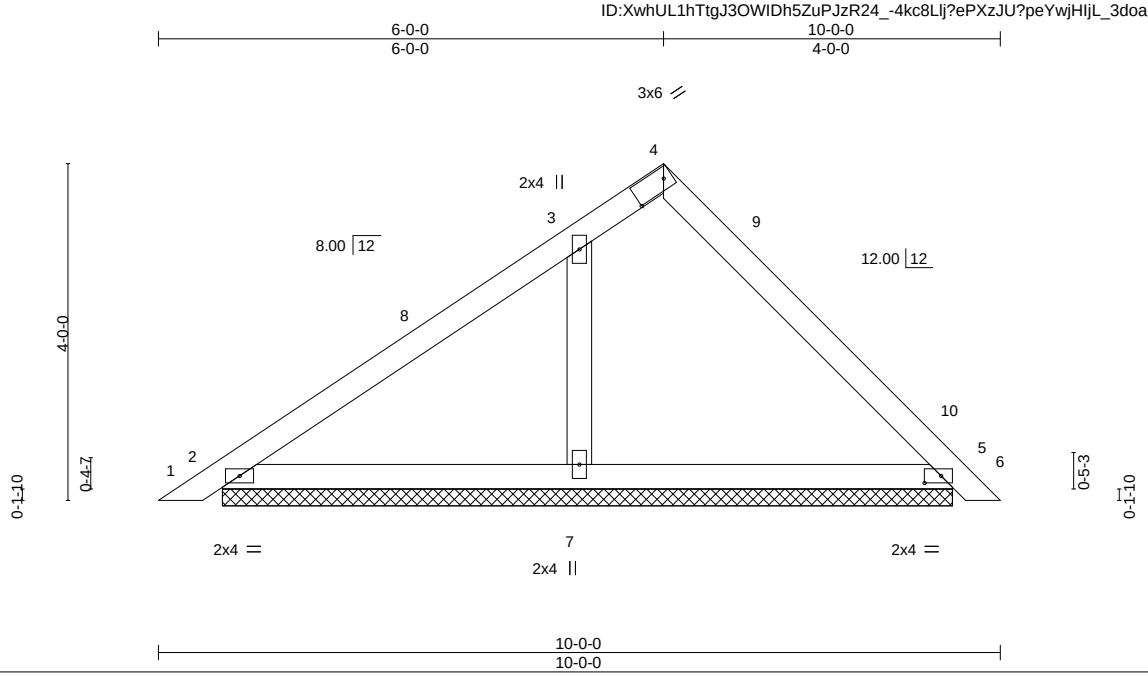

Plate Offsets (X,Y)-- [4:0-4-13,0-1-8], [5:0-2-6,0-1-0]

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	0.22	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	0.01	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 36 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 6-0-0 oc bracing.

REACTIONS. (size) 2=8-8-1, 5=8-8-1, 7=8-8-1
Max Horz 2=-96(LC 10)
Max Uplift 2=-20(LC 13), 5=-36(LC 13), 7=-124(LC 12)
Max Grav 2=194(LC 1), 5=219(LC 24), 7=392(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-270/169

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-2 to 3-3-2, Interior(1) 3-3-2 to 6-0-0, Exterior(2) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 9-9-8 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) N/A
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	PB02	PIGGYBACK	1	1	I44760278
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:03 2021 Page 1
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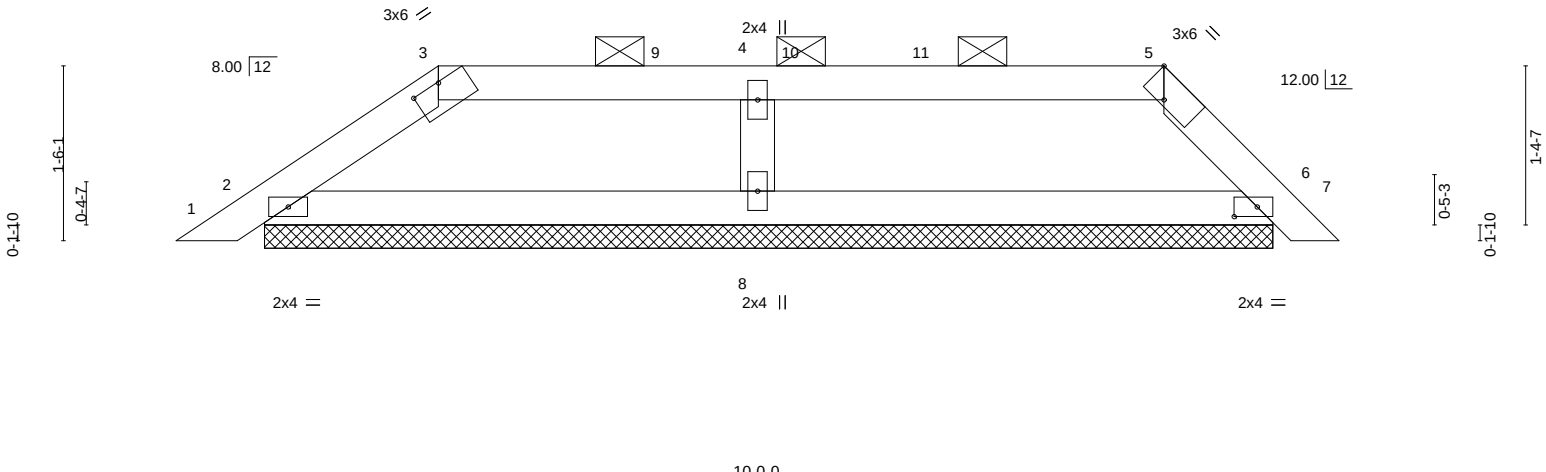
2-3-1 | 8-5-15 | 10-0-0
2-3-1 | 6-2-14 | 1-6-1

Scale = 1:19.8



10-0-0
10-0-0

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

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	0.16	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 31 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, except 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=8-8-1, 6=8-8-1, 8=8-8-1
Max Horz 2=-34(LC 10)
Max Uplift 2=-50(LC 12), 6=-50(LC 13), 8=-46(LC 9)
Max Grav 2=209(LC 1), 6=207(LC 1), 8=331(LC 23)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-2 to 6-6-0, Interior(1) 6-6-0 to 8-5-15, Exterior(2) 8-5-15 to 9-9-8 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) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
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) N/A
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	PB03	GABLE	3	1	I44760279
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:04 2021 Page 1
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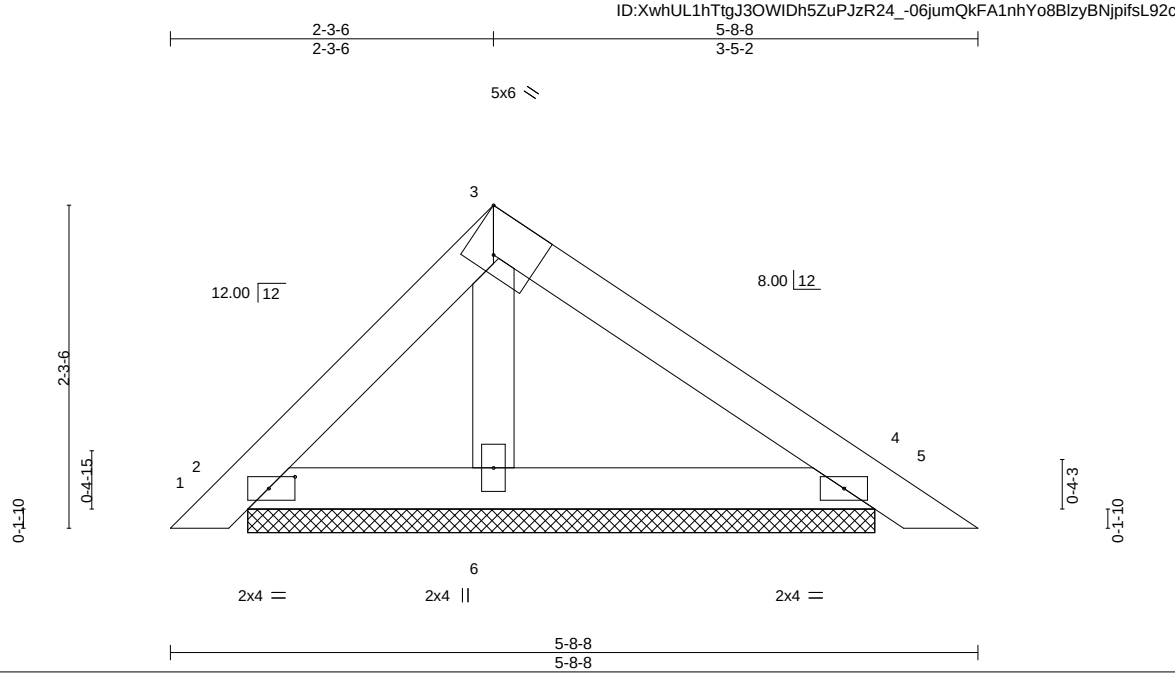

Plate Offsets (X,Y)-- [2:0-2-4,0-1-0], [3:Edge,0-3-8]

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	0.14	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 20 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 5-8-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=4-5-3, 2=4-5-3, 4=4-5-3
Max Horz 2=53(LC 11)
Max Uplift 2=-32(LC 13), 4=-42(LC 13)
Max Grav 6=150(LC 1), 2=106(LC 1), 4=147(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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) N/A
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	PB04	GABLE	1	1	I44760280

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:05 2021 Page 1
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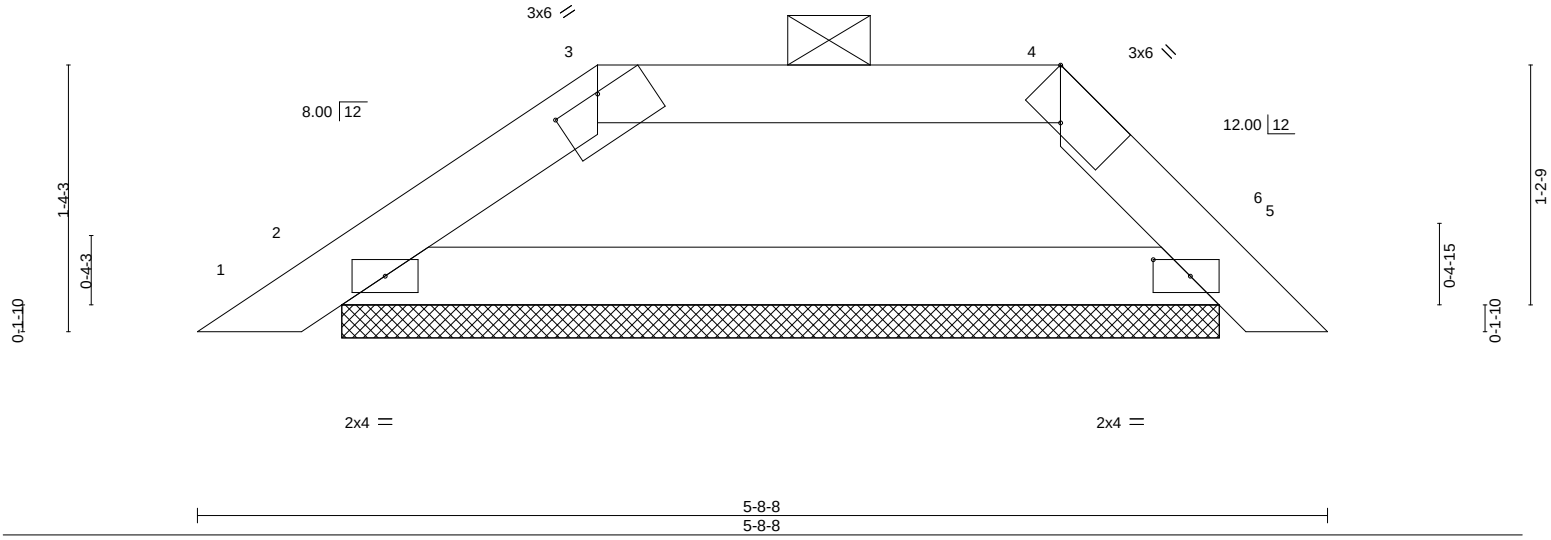
2-0-4 4-4-5 5-8-8
2-0-4 2-4-1 1-4-3

Scale = 1:11.6



5-8-8
5-8-8

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

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	0.10	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							Weight: 17 lb	FT = 20%

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

REACTIONS. (size) 2=4-5-3, 5=4-5-3
Max Horz 2=-30(LC 10)
Max Uplift 2=-24(LC 12), 5=-15(LC 13)
Max Grav 2=206(LC 1), 5=197(LC 1)

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

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
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) N/A
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	PB05	PIGGYBACK	1	1	I44760281
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:05 2021 Page 1
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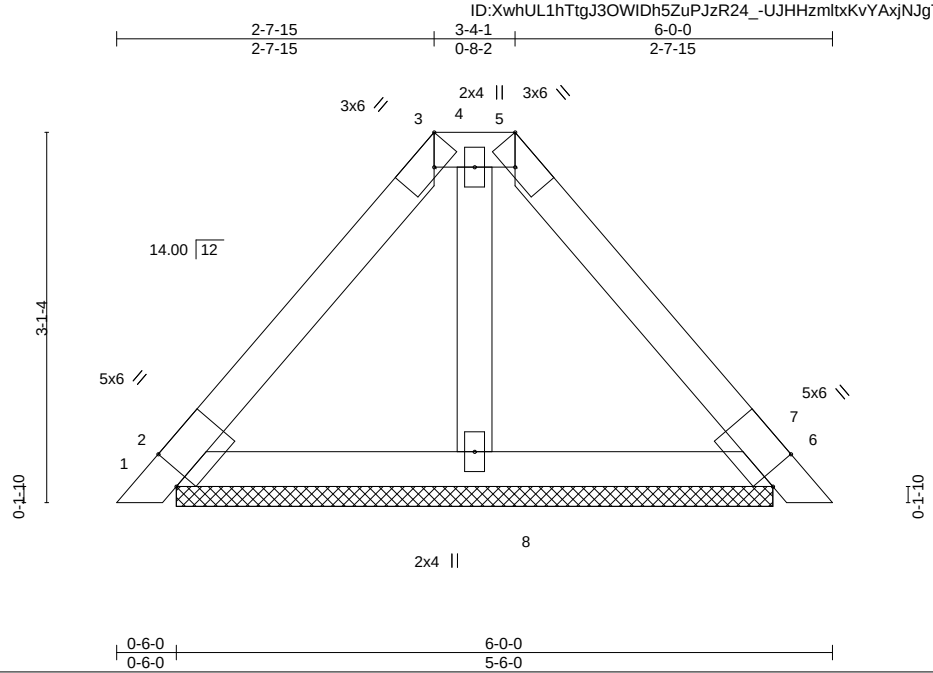

Plate Offsets (X,Y)-- [2:0-1-5,Edge], [3:0-2-11,Edge], [5:0-2-11,Edge], [6:0-1-5,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.00	Vert(CT)	0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 24 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins: 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=5-0-0, 2=5-0-0, 6=5-0-0
Max Horz 2=-78(LC 8)
Max Uplift 8=-13(LC 9), 2=-53(LC 13), 6=-55(LC 13)
Max Grav 8=79(LC 1), 2=120(LC 1), 6=120(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=130mph (3-second gust) Vasd=103mph; 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) Gable requires continuous bottom chord bearing.
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) N/A

7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 6.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	PB06	PIGGYBACK	5	1	I44760282
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:06 2021 Page 1
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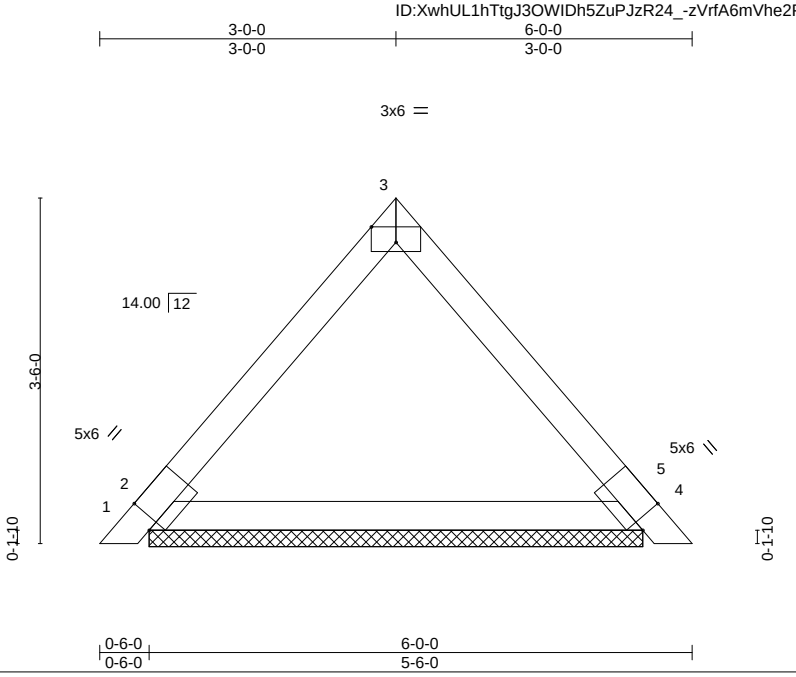

Plate Offsets (X,Y)-- [2:0-1-5,Edge], [3:Edge,0-1-14], [4:0-1-5,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.00	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 21 lb	FT = 20%

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

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=5-0-0, 4=5-0-0
Max Horz 2=-86(LC 8)
Max Uplift 2=-53(LC 13), 4=-53(LC 12)
Max Grav 2=159(LC 1), 4=159(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=130mph (3-second gust) Vasd=103mph; 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 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) N/A

6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 4.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	PB07	PIGGYBACK	1	1	I44760283
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:07 2021 Page 1
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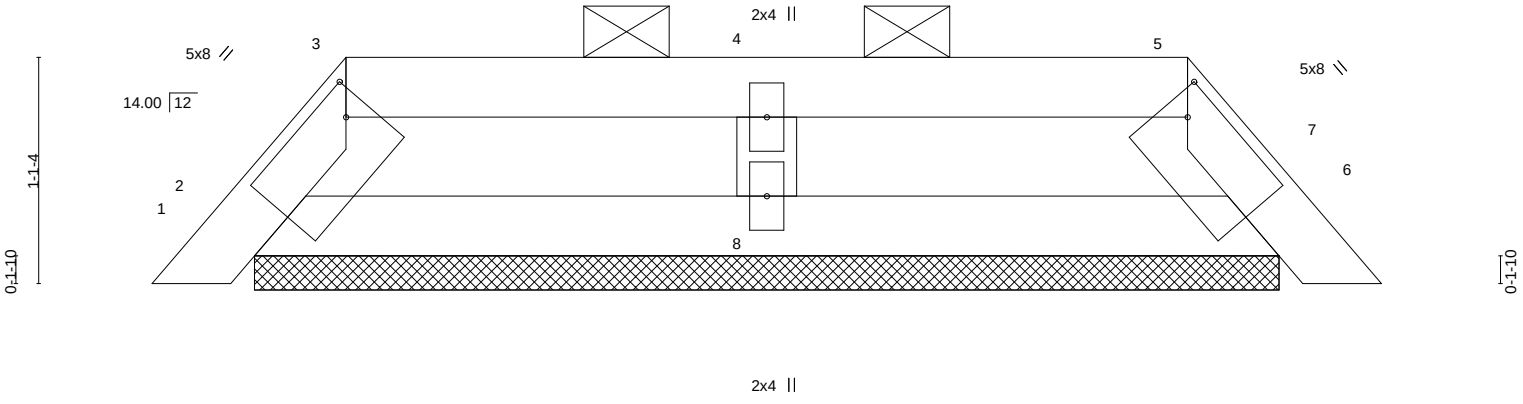
0-11-6 2-0-10 2-0-10 0-11-6

Scale = 1:11.2



2x4 ||

0-6-0 6-0-0
0-6-0 5-6-0

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

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	0.07	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.00	Vert(CT)	0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-8: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins: 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=5-0-0, 6=5-0-0, 8=5-0-0
Max Horz 2=-25(LC 8)
Max Uplift 2=-41(LC 12), 6=-41(LC 13), 8=-67(LC 9)
Max Grav 2=85(LC 1), 6=85(LC 1), 8=148(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=130mph (3-second gust) Vasd=103mph; 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) Gable requires continuous bottom chord bearing.
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) N/A

7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 6.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	PB08	PIGGYBACK	1	1	I44760284

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:07 2021 Page 1

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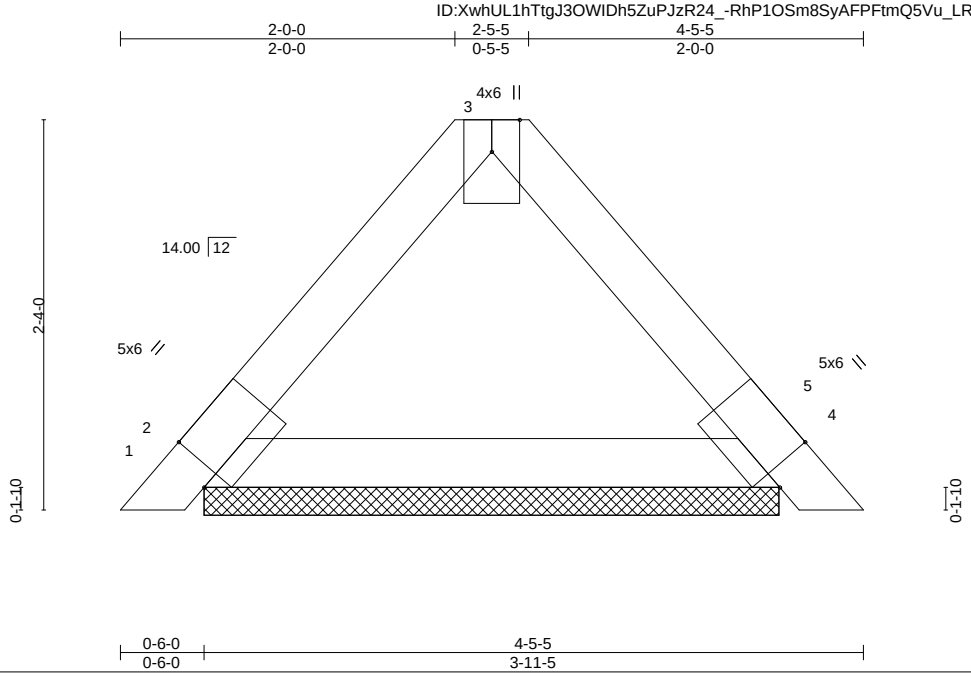

Plate Offsets (X,Y)-- [2:0-1-5,Edge], [4:0-1-5,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.00	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 15 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 2=3-5-4, 4=3-5-4
Max Horz 2=59(LC 11)
Max Uplift 2=-38(LC 12), 4=-38(LC 13)
Max Grav 2=112(LC 1), 4=112(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=130mph (3-second gust) Vasd=103mph; 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 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) N/A

6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 4.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	PB09	PIGGYBACK	4	1	I44760285
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:08 2021 Page 1
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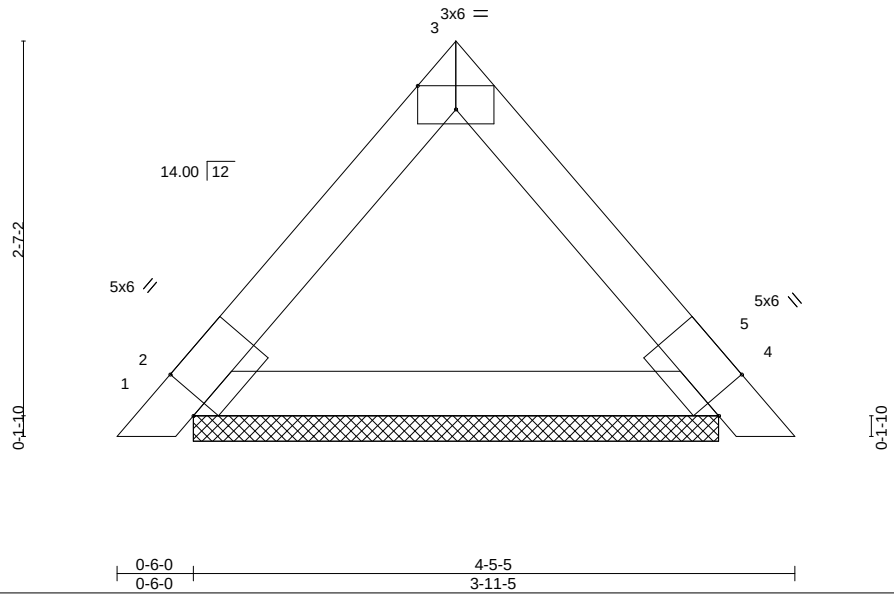

Plate Offsets (X,Y)-- [2:0-1-5,Edge], [3:Edge,0-1-14], [4:0-1-5,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.00	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 15 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=3-5-5, 4=3-5-5
Max Horz 2=62(LC 11)
Max Uplift 2=-37(LC 13), 4=-37(LC 12)
Max Grav 2=112(LC 1), 4=112(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=130mph (3-second gust) Vasd=103mph; 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 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) N/A

6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 4.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	V01	GABLE	1	1	I44760286
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:09 2021 Page 1
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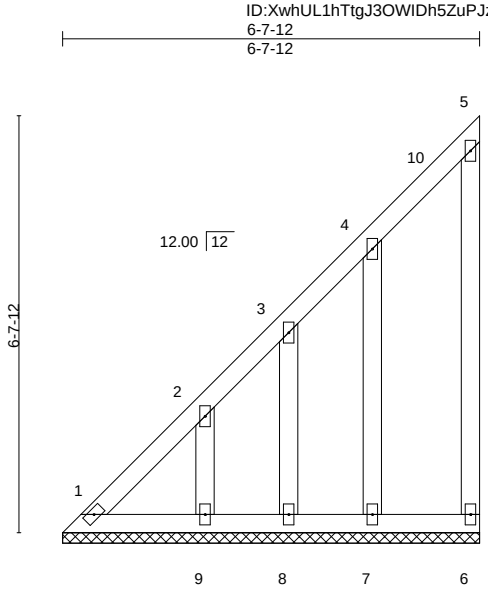

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 46 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 6-7-12.
(lb) - Max Horz 1=236(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 7, 8 except 9=-106(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 6, 7, 8, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-425/392, 2-3=-321/290, 3-4=-252/243

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-7-4, Interior(1) 3-7-4 to 6-6-0 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
2) All plates are 2x4 MT20 unless otherwise indicated.
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.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	V02	VALLEY	1	1	I44760287

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:10 2021 Page 1
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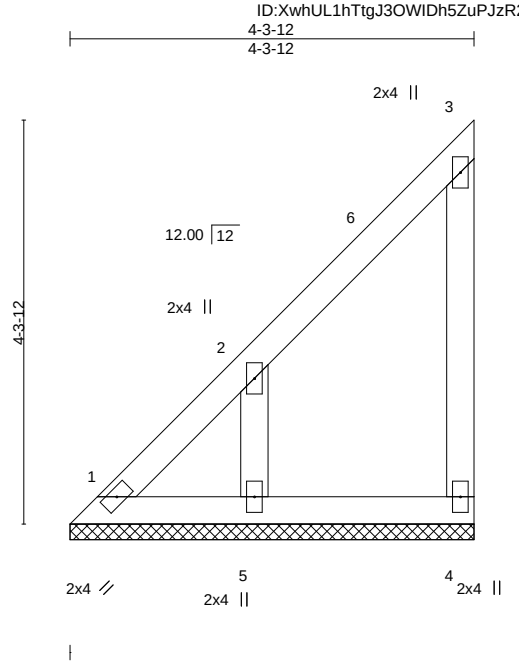


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-3-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-3-12, 4=4-3-12, 5=4-3-12
Max Horz 1=147(LC 9)
Max Uplift 1=-37(LC 10), 4=-49(LC 9), 5=-131(LC 12)
Max Grav 1=105(LC 9), 4=94(LC 19), 5=221(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-275/252

NOTES-

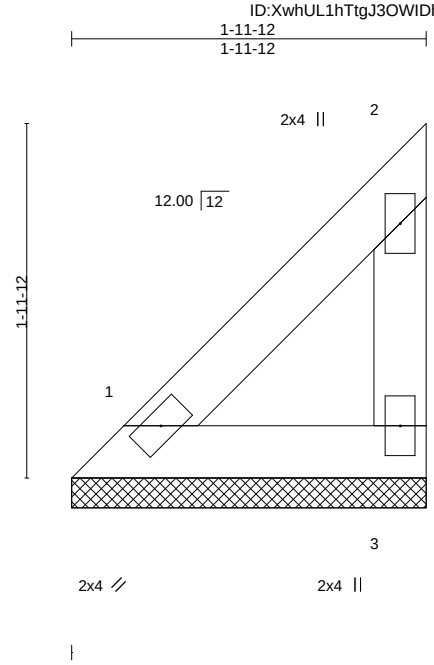
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 4-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
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.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	V03	VALLEY	1	1	I44760288
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:10 2021 Page 1
ID:XwhUL1hTtgJ3OWIDh5ZuPJzR24_-rG4A0Up0ltYqGjcL6D3bc_3l3HOySJ5OCeKT9lzmVvx



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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	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: 8 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=1-11-12, 3=1-11-12
Max Horz 1=57(LC 11)
Max Uplift 3=-27(LC 9)
Max Grav 1=67(LC 20), 3=73(LC 19)

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

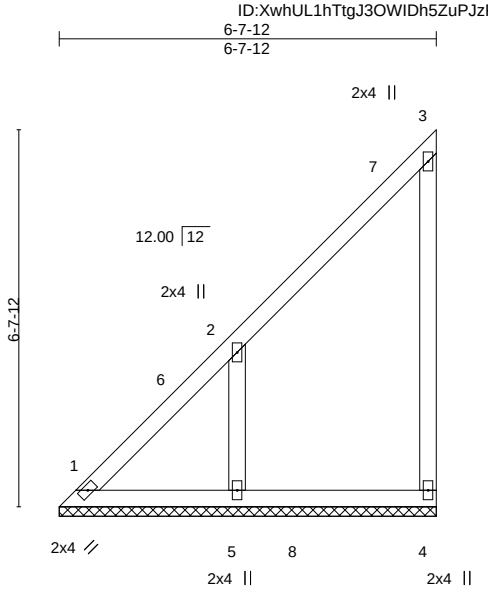
NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
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.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	V04	VALLEY	1	1	I44760289
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:11 2021 Page 1
ID:XwhUL1hTtgJ3OWIDh5ZuPJzR24_-JTeYEpqeWAghusBXfxaq9Bbm1hhSBl5XRI30hBzmVvw



Scale = 1:40.6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 36 lb	FT = 20%

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

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

REACTIONS. (size) 1=6-7-12, 4=6-7-12, 5=6-7-12
Max Horz 1=236(LC 9)
Max Uplift 1=-53(LC 8), 4=-77(LC 9), 5=-209(LC 12)
Max Grav 1=169(LC 11), 4=183(LC 19), 5=387(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-418/393
WEBS 2-5=-336/270

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-1-10, Interior(1) 3-1-10 to 6-6-0 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
2) Gable requires continuous bottom chord bearing.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	V05	VALLEY	1	1	I44760290

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:12 2021 Page 1

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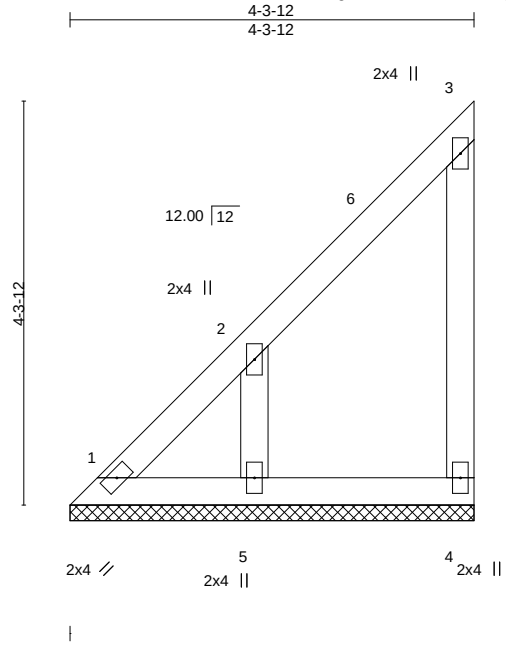

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-3-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-3-12, 4=4-3-12, 5=4-3-12
Max Horz 1=147(LC 9)
Max Uplift 1=-37(LC 10), 4=-49(LC 9), 5=-131(LC 12)
Max Grav 1=105(LC 9), 4=94(LC 19), 5=221(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-275/252

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 4-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
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.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	V06	VALLEY	1	1	I44760291
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:12 2021 Page 1
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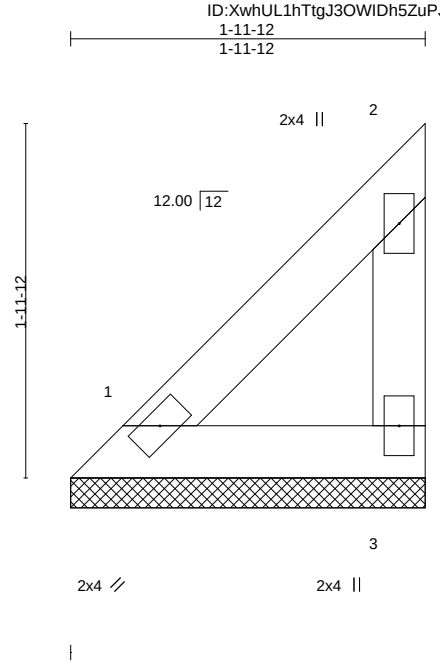

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 8 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=1-11-12, 3=1-11-12
Max Horz 1=57(LC 11)
Max Uplift 3=-27(LC 9)
Max Grav 1=67(LC 20), 3=73(LC 19)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
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.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	V07	VALLEY	1	1	I44760292

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:13 2021 Page 1
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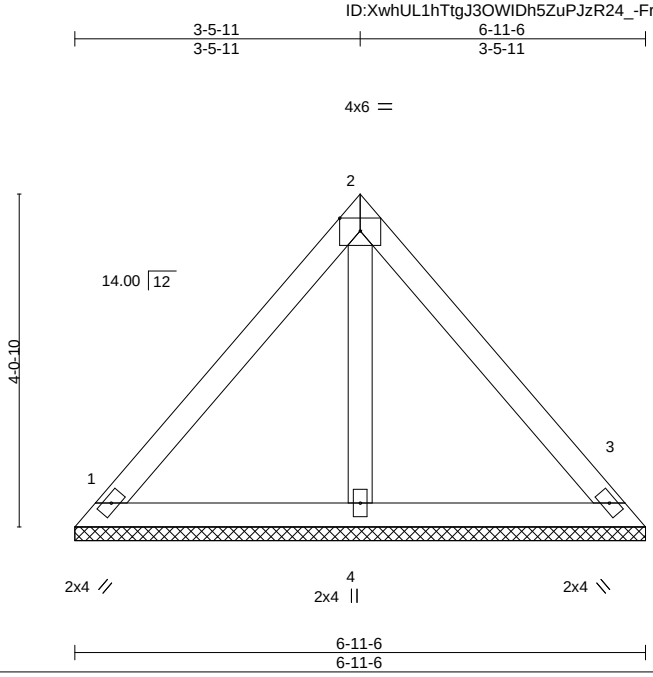

Plate Offsets (X,Y)-- [2:Edge,0-1-14]

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	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 30 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=6-11-6, 3=6-11-6, 4=6-11-6
Max Horz 1=-97(LC 10)
Max Uplift 1=-34(LC 13), 3=-25(LC 12), 4=-4(LC 12)
Max Grav 1=148(LC 1), 3=148(LC 1), 4=209(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=130mph (3-second gust) Vasd=103mph; 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, 4.

February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	V08	VALLEY	1	1	I44760293
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:14 2021 Page 1
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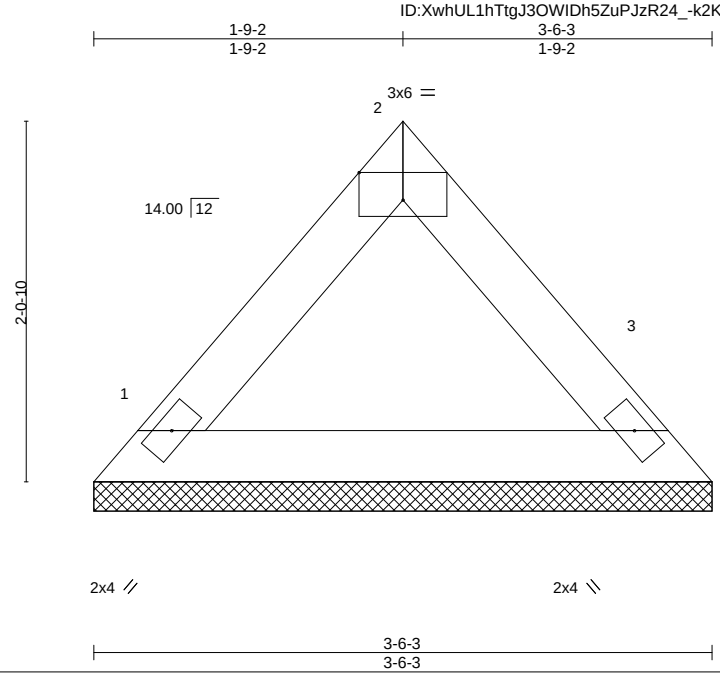


Plate Offsets (X,Y)-- [2:Edge,0-1-14]

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%

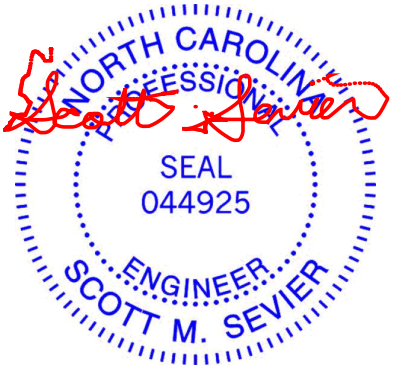
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 1=3-6-3, 3=3-6-3
Max Horz 1=44(LC 9)
Max Uplift 1=-12(LC 13), 3=-12(LC 12)
Max Grav 1=115(LC 1), 3=115(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=130mph (3-second gust) Vasd=103mph; 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.



February 11,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	V09	VALLEY	1	1	I44760294

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:15 2021 Page 1
ID:IVPazU2YfbZ3pfi4ZQ30aOzQim7-CEu33Bt9aPA7NUUlumfmJ1mall477ap7Mw1EqyzmVvs

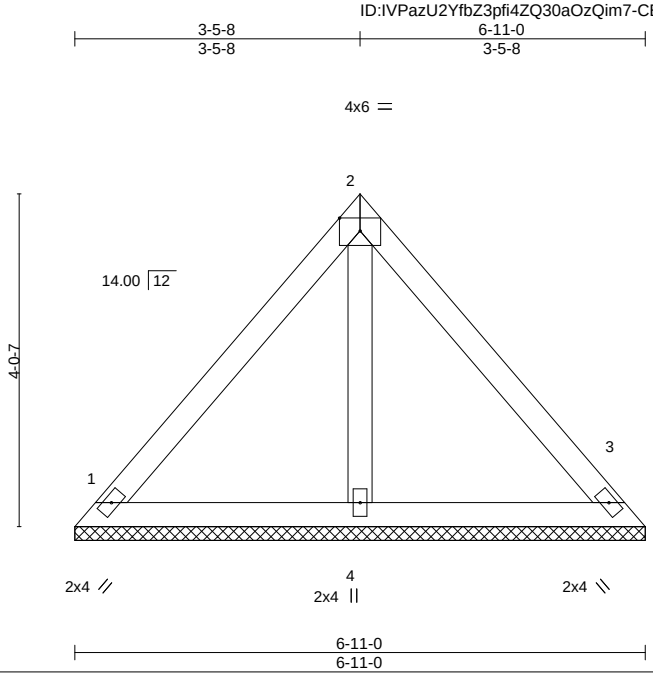


Plate Offsets (X,Y)-- [2:Edge,0-1-14]

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	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 30 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=6-11-0, 3=6-11-0, 4=6-11-0
Max Horz 1=-96(LC 8)
Max Uplift 1=-33(LC 13), 3=-24(LC 12), 4=-4(LC 12)
Max Grav 1=148(LC 1), 3=148(LC 1), 4=208(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=130mph (3-second gust) Vasd=103mph; 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, 4.

February 11,2021

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Job	Truss	Truss Type	Qty	Ply	McKee-Clark
MASTEREUROTRAY130	V10	VALLEY	1	1	I44760295
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 14:50:15 2021 Page 1
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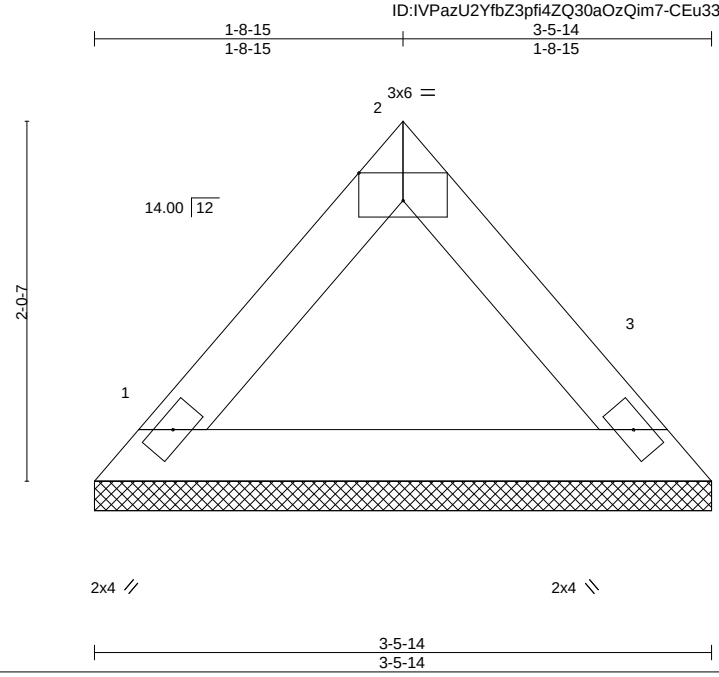

Plate Offsets (X,Y)-- [2:Edge,0-1-14]

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	0.05	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: 12 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 3-5-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-5-14, 3=3-5-14
Max Horz 1=-44(LC 10)
Max Uplift 1=-12(LC 13), 3=-12(LC 12)
Max Grav 1=114(LC 1), 3=114(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=130mph (3-second gust) Vasd=103mph; 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.

February 11,2021

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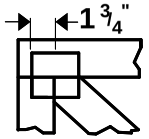
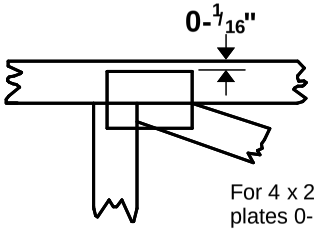
Symbols

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.

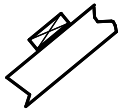
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

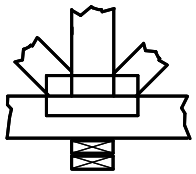
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

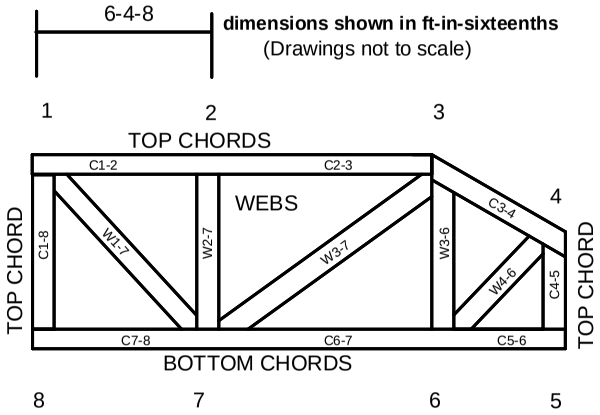


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.

MiTek
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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.