ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: CraftRoof130
McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130

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: I45644320 thru I45644379

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

North Carolina COA: C-0844

April 14,2021

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-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644320
CRAFTROOF130	A01	COMMON	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:50:59 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-y?DwRAJN4GvX5zKIDV52?XjOGI5XWmI59nxYUGzQuVg

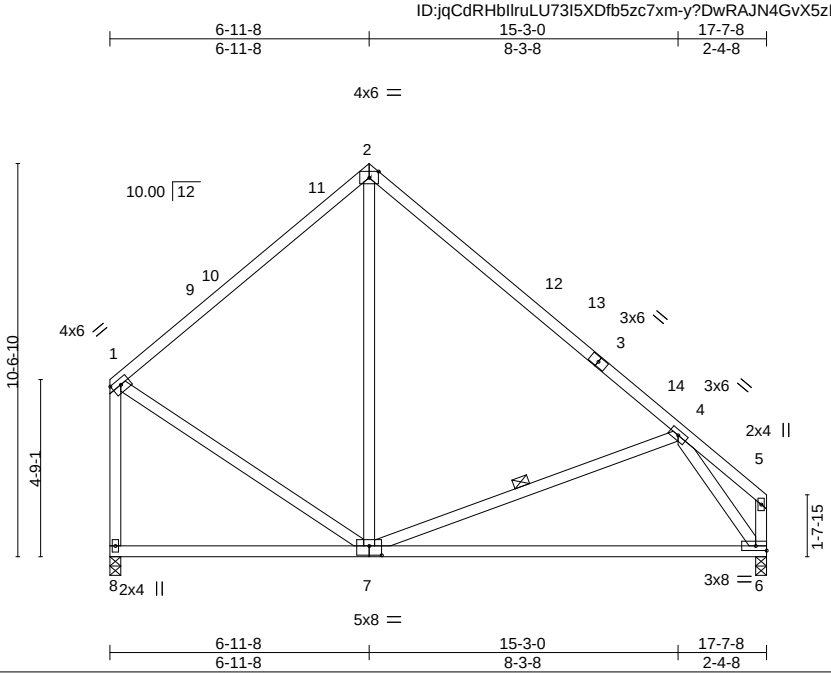


Plate Offsets (X,Y)-- [1:0-3-0,0-1-12], [2:0-3-0,Edge], [7:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.30	6-7	>694	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.60	6-7	>345	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	-0.01	7-8	>999	240	Weight: 114 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-7

REACTIONS. (size) 8=0-3-8, 6=0-3-8
Max Horz 8=-315(LC 8)
Max Uplift 8=-29(LC 13), 6=-32(LC 13)
Max Grav 8=693(LC 1), 6=693(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-648/148, 1-2=-534/156, 2-4=-583/168
BOT CHORD 7-8=-248/290, 6-7=-142/488
WEBS 2-7=-13/271, 1-7=-51/404, 4-7=-315/280, 4-6=-790/336

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 6-11-8, Exterior(2) 6-11-8 to 11-2-7, Interior(1) 11-2-7 to 17-5-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644321
CRAFTROOF130	A01G	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:00 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-QBnIeWJ0ra1Oi7uUnDcHXkGiliZSFF1FNRg50izQuVf

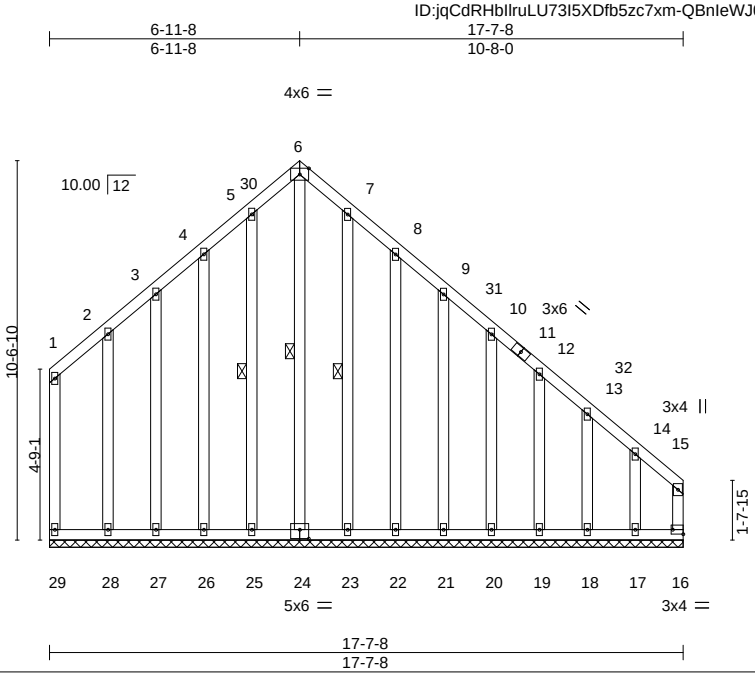


Plate Offsets (X,Y)-- [6:0-3-0,Edge], [16:Edge,0-1-8], [24:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	16	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							Weight: 185 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 10-0-0 oc bracing.
WEBS	1 Row at midpt 6-24, 5-25, 7-23

REACTIONS. All bearings 17-7-8.
(lb) - Max Horz 29=-315(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 29, 25, 26, 27, 28, 23, 22, 21, 20, 19, 18 except 16=-452(LC 11), 24=-125(LC 10), 17=-463(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 29, 24, 25, 26, 27, 28, 23, 22, 21, 20, 19, 18 except 16=559(LC 8), 17=473(LC 11)

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

TOP CHORD	4-5=-270/287, 5-6=-285/310, 6-7=-285/314, 7-8=-270/301, 12-13=-265/239, 13-14=-263/228, 14-15=-402/346, 15-16=-348/284
BOT CHORD	28-29=-234/264, 27-28=-234/264, 26-27=-234/264, 25-26=-234/264, 24-25=-234/264, 23-24=-234/264, 22-23=-234/264, 21-22=-234/264, 20-21=-234/264, 19-20=-234/264, 18-19=-234/264, 17-18=-234/264, 16-17=-234/264
WEBS	6-24=-324/254

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 2-11-8, Interior(1) 2-11-8 to 6-11-8, Exterior(2) 6-11-8 to 10-11-8, Interior(1) 10-11-8 to 17-5-12 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) 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) 29, 25, 26, 27, 28, 23, 22, 21, 20, 19, 18 except (jt=lb) 16=452, 24=125, 17=463.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644322
CRAFTROOF130	A01T	COMMON	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:01 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-uOLgssKecu9FKGTgLw8W4ypk16uY_fCOc5QeZ9zQuVe

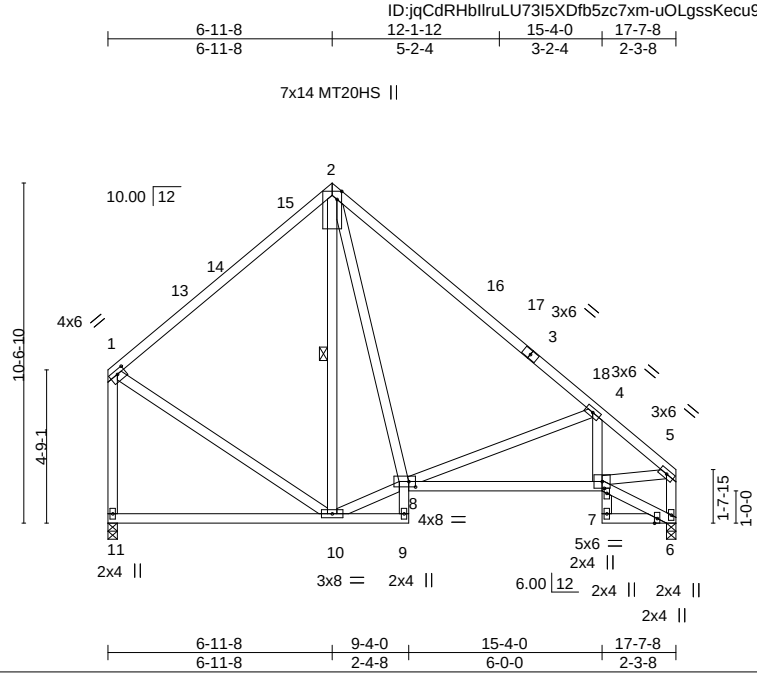


Plate Offsets (X,Y)-- [1:0-3-0,0-1-8], [2:0-3-0,0-1-12], [7:0-1-14,0-1-0], [8:0-2-8,0-2-0]

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	0.85	Vert(LL)	-0.06	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.12	10-11	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.01	7-8	>999	240	Weight: 134 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 6-12: 2x4 SP No.3
WEBS	2x4 SP No.3 *Except* 1-11,5-6: 2x4 SP No.2
OTHERS	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 6-0-0 oc bracing.
WEBS	1 Row at midpt 2-10

REACTIONS. (size) 11=0-3-8, 6=0-3-8
Max Horz 11=-316(LC 8)
Max Uplift 11=-29(LC 13), 6=-32(LC 13)
Max Grav 11=693(LC 1), 6=693(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-631/157, 1-2=-522/164, 2-4=-674/184, 4-5=-886/163, 5-6=-669/98
BOT CHORD 10-11=-245/293, 7-8=-174/733
WEBS 2-8=-24/346, 1-10=-61/387, 8-10=-18/452, 4-8=-470/286, 5-7=-177/776

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 6-11-8, Exterior(2) 6-11-8 to 11-2-7, Interior(1) 11-2-7 to 17-5-12 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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 6.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644323
CRAFTROOF130	A02	COMMON	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:02 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-Mav23CLGNBH6yQ2tveflc9LxBV8dj3TYrl9C5bzQuVd

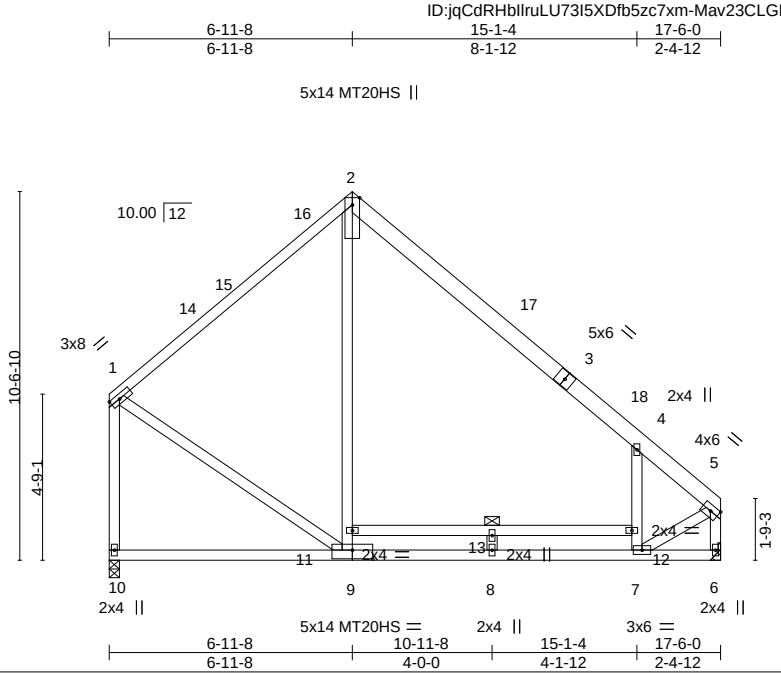


Plate Offsets (X,Y)-- [9:0-7-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.29	7-8	>705	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.42	7-8	>491	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.29	7-8	>715	240	Weight: 127 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
1-2: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-9: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
1-10,5-6,11-12: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 11-12

REACTIONS. (size) 10=0-3-8, 6=Mechanical
Max Horz 10=-315(LC 8)
Max Uplift 10=-31(LC 13), 6=-32(LC 13)
Max Grav 10=740(LC 20), 6=776(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-715/167, 1-2=-594/169, 2-4=-587/151, 4-5=-656/9, 5-6=-762/7
BOT CHORD 9-10=-249/294, 8-9=-34/527, 7-8=-34/527
WEBS 2-11=0/337, 1-9=-69/502, 5-7=-57/513

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 6-11-8, Exterior(2) 6-11-8 to 11-2-7, Interior(1) 11-2-7 to 17-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.

April 14,2021

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-5=-60, 6-10=-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, 2-5=-50, 6-10=-20, 11-12=-30

Continued on page 2

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

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, 2-5=-20, 6-10=-40, 11-12=-40

18) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-20, 6-10=-20, 11-12=-40

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-61, 2-5=-42, 6-10=-20, 11-12=-30
Horz: 1-10=21, 1-2=11, 2-5=8, 5-6=7

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-42, 2-5=-61, 6-10=-20, 11-12=-30
Horz: 1-10=-7, 1-2=-8, 2-5=-11, 5-6=-21

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: 1-16=-29, 2-16=-38, 2-5=-46, 6-10=-20, 11-12=-30
Horz: 1-10=19, 1-16=-21, 2-16=-12, 2-5=4, 5-6=3

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=-46, 2-17=-38, 5-17=-29, 6-10=-20, 11-12=-30
Horz: 1-10=-3, 1-2=-4, 2-17=12, 5-17=21, 5-6=-19

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, 2-5=-20, 6-10=-20, 11-12=-30

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-5=-50, 6-10=-20, 11-12=-30

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644324
CRAFTROOF130	B01	ROOF TRUSS	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:04 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-Iz1pUuMWupXqBkCF03hDiaRKeJndBt7qI3eIATzQuVb

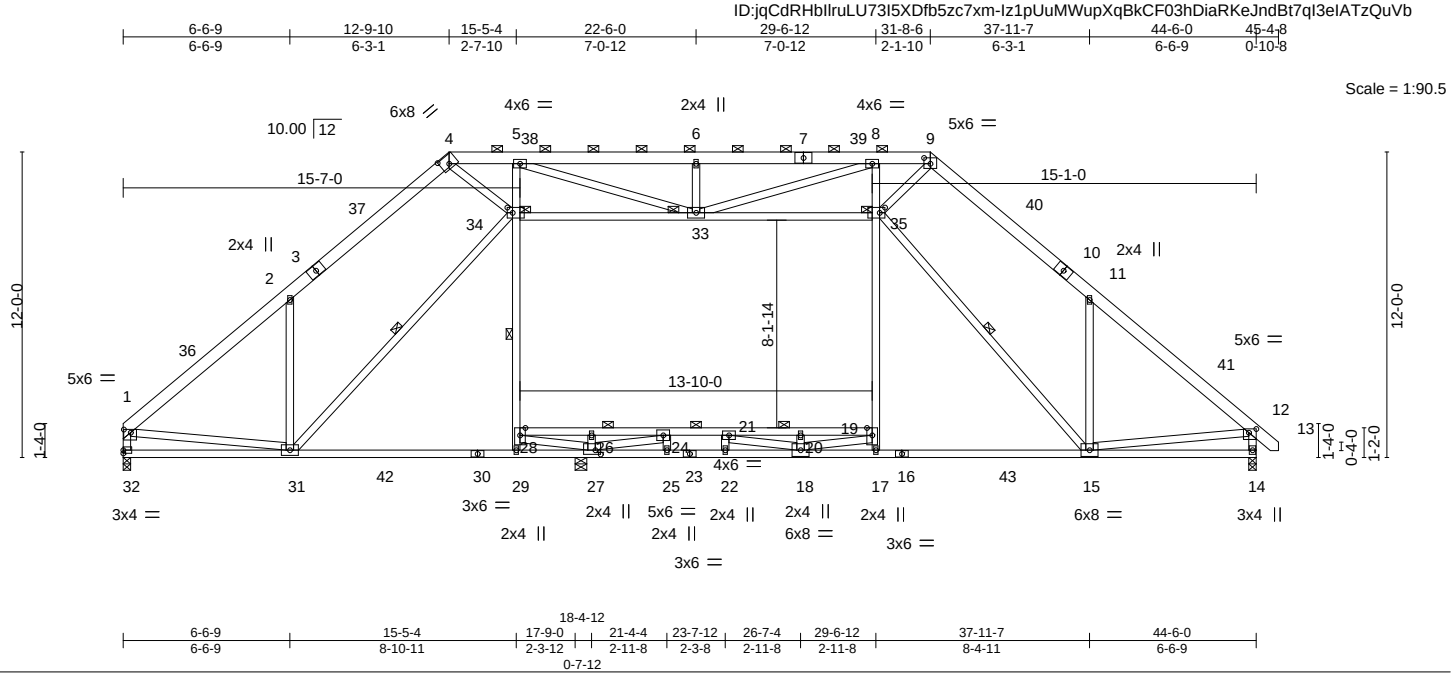


Plate Offsets (X,Y)-- [1:0-3-4,0-1-8], [4:0-4-0,0-3-12], [9:0-3-0,0-2-12], [12:0-3-8,0-1-12], [27:0-2-8,0-2-0], [34:0-2-8,0-2-8], [35:0-2-8,0-2-8]

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	0.57	Vert(LL)	-0.30	15-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.58	15-17	>538	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.07	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.12	15-17	>999	240	Weight: 394 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
19-28: 2x4 SP No.2, 16-23,23-30: 2x4 SP SS
WEBS 2x4 SP No.3 *Except*
5-29,8-17,34-35,31-34,15-35,1-32,12-14: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-9 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-1 max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 4-2-0 oc bracing: 19-28
WEBS 1 Row at midpt 28-34, 31-34, 15-35
JOINTS 1 Brace at Jt(s): 33, 34, 35

REACTIONS. (size) 32=0-3-8, 27=0-5-8, 14=0-3-8
Max Horz 32=-317(LC 8)
Max Grav 32=1823(LC 2), 27=1128(LC 26), 14=2076(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2208/80, 2-4=-2066/319, 4-5=-2507/420, 5-6=-3570/514, 6-8=-3570/514, 8-9=-3353/281, 9-11=-2639/246, 11-12=-2568/28, 1-32=-1758/87, 12-14=-2038/81
BOT CHORD 31-32=-269/469, 29-31=0/1510, 27-29=-21/1214, 25-27=0/2517, 22-25=0/2517, 18-22=0/2517, 17-18=0/1660, 15-17=0/1566, 26-28=-145/1405, 24-26=-145/1405, 21-24=-1201/138, 20-21=-1376/0, 19-20=-1376/0
WEBS 2-31=-359/414, 28-29=0/518, 28-34=-151/464, 5-34=-604/316, 17-19=0/313, 19-35=0/944, 8-35=-580/337, 11-15=-565/362, 33-34=-408/1034, 33-35=-238/1901, 24-25=0/265, 18-20=-421/0, 26-27=-376/0, 27-28=-1180/261, 24-27=-2316/0, 18-21=-135/553, 18-19=0/1370, 6-33=-441/194, 8-33=-522/635, 5-33=-345/1309, 4-34=-164/1233, 9-35=-32/2136, 31-34=-473/486, 15-35=-395/729, 1-31=0/1355, 12-15=0/1803

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 12-9-10, Exterior(2) 12-9-10 to 15-9-10, Interior(1) 15-9-10 to 31-8-6, Exterior(2) 31-8-6 to 34-8-6, Interior(1) 34-8-6 to 45-2-10 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 5x8 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) Ceiling dead load (5.0 psf) on member(s). 33-34, 33-35; Wall dead load (5.0psf) on member(s).28-34, 19-35
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 26-28, 24-26, 21-24, 20-21, 19-20
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.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644325
CRAFTROOF130	B01G	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:10 2021 Page 1
ID:jqCdRHbIlruLU73l5XDfb5zc7xm-76O4lxRHUfIzvffPNJodxrgM7kq1bacjg?5dN7zQuVV

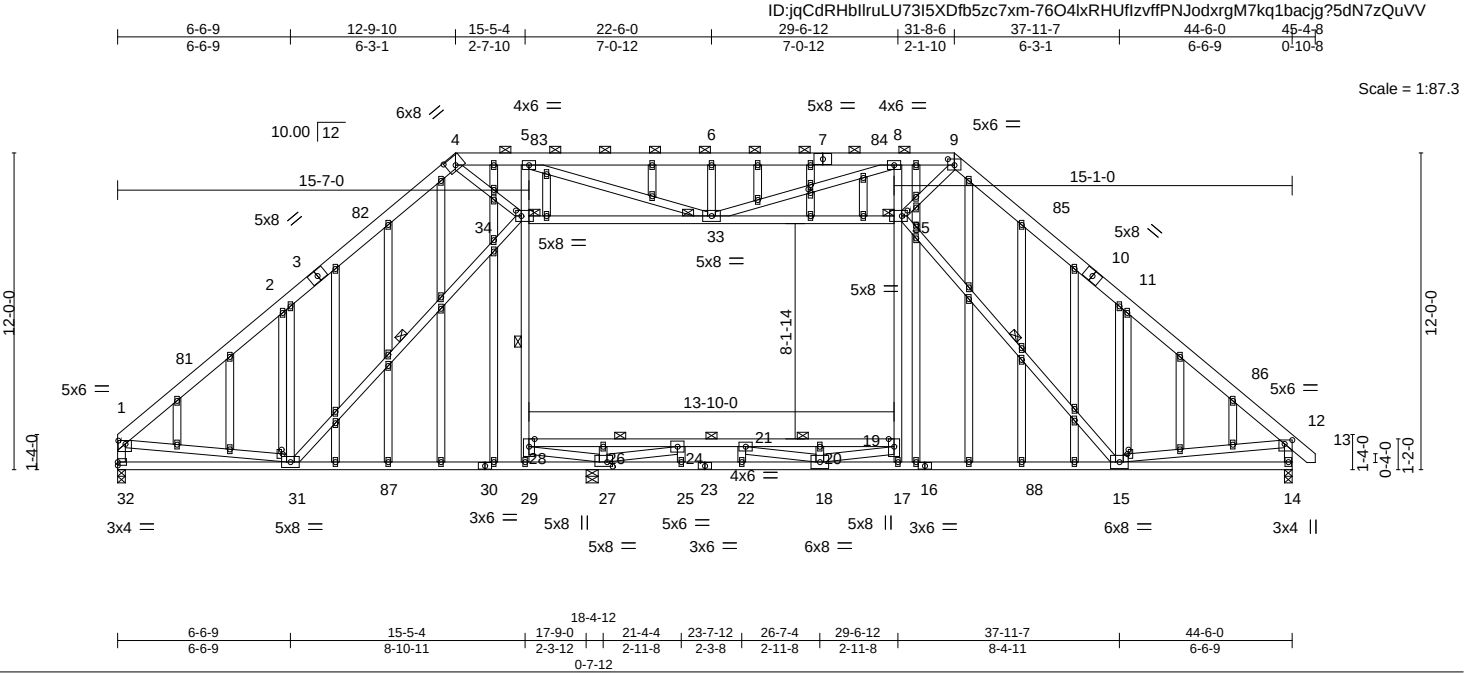


Plate Offsets (X,Y)-- [1:0-3-4,0-1-8], [4:0-4-0,0-3-12], [9:0-3-0,0-2-12], [12:0-3-8,0-1-12], [15:0-2-0,0-0-8], [27:0-2-8,0-2-0], [31:0-2-0,0-0-8], [34:0-2-8,0-2-8], [35:0-2-8,0-2-8], [61:0-1-10,0-1-0]

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	0.57	Vert(LL)	-0.30	15-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.58	15-17	>538	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.07	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.12	15-17	>999	240	Weight: 551 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.1 *Except* 19-28: 2x4 SP No.2, 16-23,23-30: 2x4 SP SS
WEBS	2x4 SP No.3 *Except* 5-29,8-17,34-35,31-34,15-35,1-32,12-14: 2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-2-9 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-1 max.): 4-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 4-2-0 oc bracing: 19-28
WEBS	1 Row at midpt 28-34, 31-34, 15-35
JOINTS	1 Brace at Jt(s): 33, 34, 35

REACTIONS. (size) 32=0-3-8, 27=0-5-8, 14=0-3-8
Max Horz 32=-317(LC 8)
Max Grav 32=1823(LC 2), 27=1128(LC 26), 14=2076(LC 2)

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

TOP CHORD	1-2=-2208/80, 2-4=-2066/319, 4-5=-2507/420, 5-6=-3570/514, 6-8=-3570/514, 8-9=-3353/281, 9-11=-2639/246, 11-12=-2568/28, 1-32=-1758/87, 12-14=-2038/81
BOT CHORD	31-32=-269/469, 29-31=0/1510, 27-29=-21/1214, 25-27=0/2517, 22-25=0/2517, 18-22=0/2517, 17-18=0/1660, 15-17=0/1566, 26-28=-145/1405, 24-26=-145/1405, 21-24=-1201/138, 20-21=-1376/0, 19-20=-1376/0
WEBS	2-31=-359/414, 28-29=0/518, 28-34=-151/464, 5-34=-604/316, 17-19=0/313, 19-35=0/944, 8-35=-580/337, 11-15=-565/362, 33-34=-408/1034, 33-35=-238/1901, 24-25=0/265, 18-20=-421/0, 26-27=-376/0, 27-28=-1180/261, 24-27=-2316/0, 18-21=-135/553, 18-19=0/1370, 6-33=-441/194, 8-33=-522/635, 5-33=-345/1309, 4-34=-164/1233, 9-35=-32/2136, 31-34=-473/486, 15-35=-395/729, 1-31=0/1355, 12-15=0/1803

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 12-9-10, Exterior(2) 12-9-10 to 15-9-10, Interior(1) 15-9-10 to 31-8-6, Exterior(2) 31-8-6 to 34-8-6, Interior(1) 34-8-6 to 45-2-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
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, with BCDL = 10.0psf.
9) Ceiling dead load (5.0 psf) on member(s). 33-34, 33-35; Wall dead load (5.0psf) on member(s).28-34, 19-35

Continued on page 2

April 14,2021

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

NOTES-

10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 26-28, 24-26, 21-24, 20-21, 19-20
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.

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644326
CRAFTROOF130	B01T	ROOF TRUSS	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:13 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-Xh3CNzT9nagYm6O_2SLKZUIqoxsAoxP9NzKH_SzQuVS

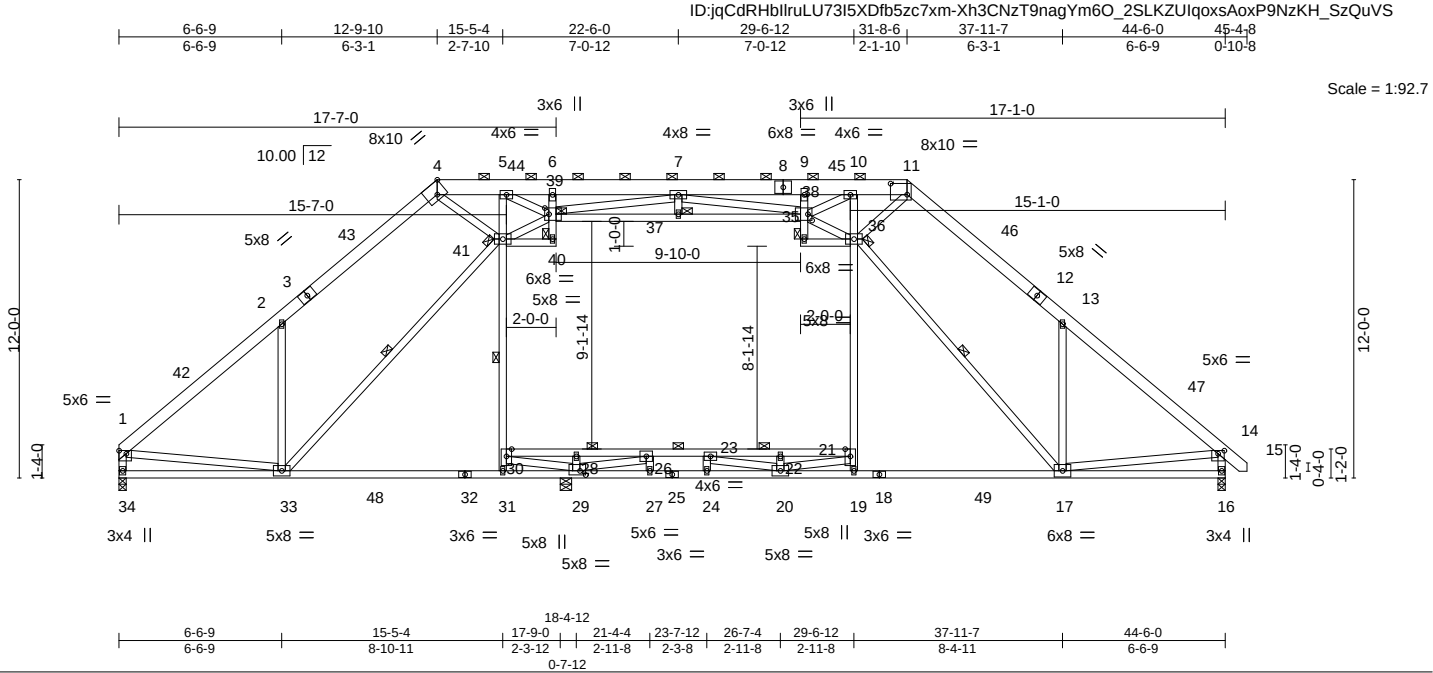


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-4-9,Edge], [11:0-8-0,0-5-5], [14:0-3-0,0-1-8], [29:0-2-12,0-2-0], [38:0-2-0,0-3-0], [39:0-2-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.32	17-19	>972	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.62	17-19	>503	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.08	16	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.14	17-19	>999	240	Weight: 416 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except* 4-8,8-11: 2x8 SP DSS
BOT CHORD 2x4 SP No.2 *Except* 18-25,25-32: 2x4 SP SS
WEBS 2x4 SP No.3 *Except* 5-31,10-19,35-36,33-41,17-36,1-34,14-16,38-39,40-41: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-13 max.): 4-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 17-19. 4-3-0 oc bracing: 21-30
WEBS 1 Row at midpt 30-41, 33-41, 17-36
JOINTS 1 Brace at Jt(s): 35, 36, 37, 39, 40, 41

REACTIONS. (size) 34=0-3-8, 29=0-5-8, 16=0-3-8
Max Horz 34=-315(LC 8)
Max Grav 34=1748(LC 2), 29=1247(LC 26), 16=2023(LC 2)

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

TOP CHORD 1-2=-2094/73, 2-4=-1905/297, 4-5=-2011/336, 5-6=-3367/671, 6-7=-3459/695, 7-9=-4817/519, 9-10=-4706/498, 10-11=-3071/195, 11-13=-2500/228, 13-14=-2482/0, 1-34=-1682/83, 14-16=-1980/79
BOT CHORD 33-34=-268/486, 31-33=0/1493, 29-31=-20/1190, 27-29=0/2305, 24-27=0/2305, 20-24=0/2305, 19-20=0/1610, 17-19=0/1554, 28-30=-133/1716, 26-28=-133/1716, 23-26=-1013/329, 22-23=-1268/0, 21-22=-1268/0
WEBS 2-33=-264/400, 30-31=0/516, 30-41=-231/376, 5-41=-551/211, 19-21=0/335, 21-36=0/932, 10-36=-945/133, 13-17=-487/347, 26-27=0/279, 20-22=-427/0, 28-29=-377/0, 29-30=-1431/236, 26-29=-2389/0, 20-23=-131/650, 20-21=0/1278, 10-38=-364/1875, 5-39=-389/1737, 4-41=-63/679, 11-36=0/1735, 33-41=-458/379, 17-36=-381/641, 1-33=0/1231, 14-17=0/1694, 37-39=-554/2777, 37-38=-554/2777, 6-39=-444/148, 9-38=-276/192, 39-41=-392/622, 7-39=-1031/267, 36-38=-191/1781, 7-38=-64/764

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 12-9-10, Exterior(2) 12-9-10 to 15-9-10, Interior(1) 15-9-10 to 31-8-6, Exterior(2) 31-8-6 to 34-8-6, Interior(1) 34-8-6 to 45-2-10 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 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) Ceiling dead load (5.0 psf) on member(s). 35-36, 37-39, 37-38, 40-41; Wall dead load (5.0psf) on member(s).30-41, 21-36
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 28-30, 26-28, 23-26, 22-23, 21-22
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

April 14,2021

Continued on page 2

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

NOTES-

10) Attic room checked for L/360 deflection.

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644327
CRAFTROOF130	B02	ROOF TRUSS	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:14 2021 Page 1
ID:jqCdRHblIruLU73l5XDfb5zc7xm-0udbaIUoYtoPOGzAc9sZ5hr2_LCTXQjJbd3qWuzQuVR

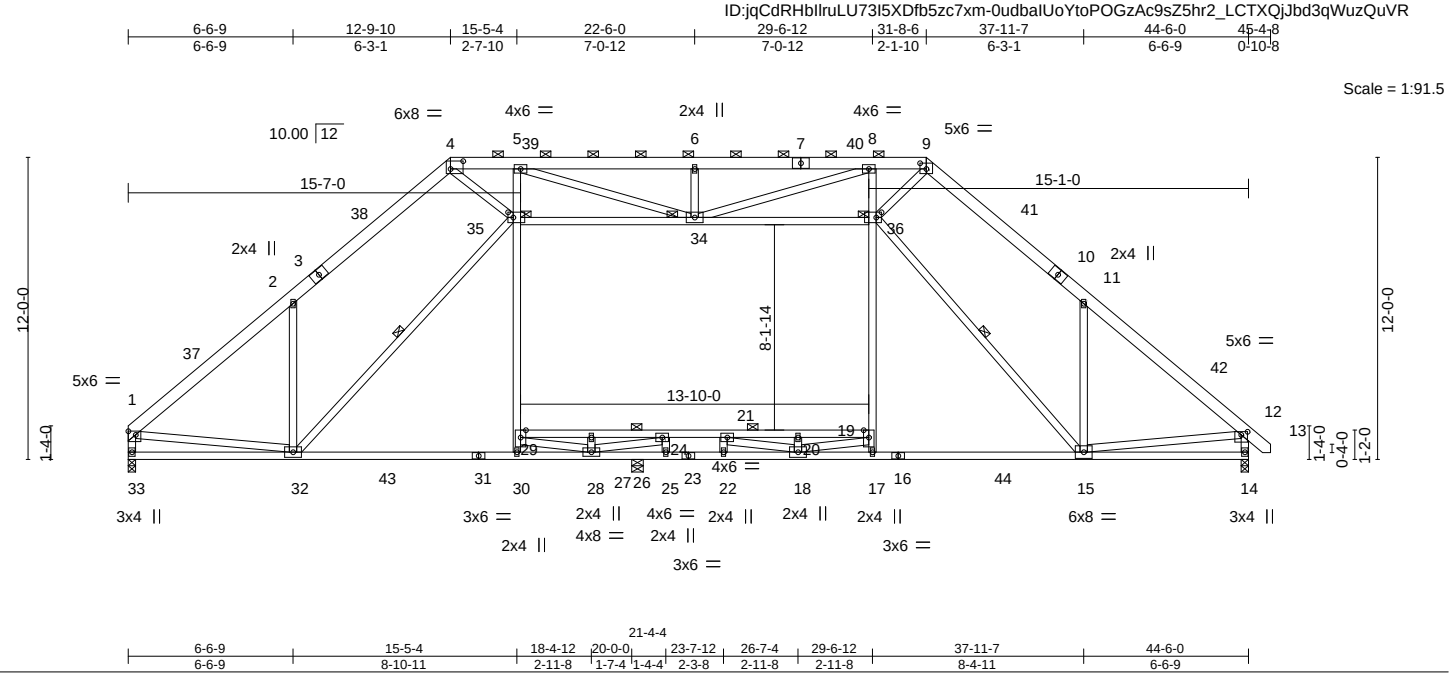


Plate Offsets (X,Y)-- [1:Edge,0-1-12], [4:0-6-0,0-3-12], [9:0-3-0,0-2-12], [12:0-3-0,0-1-8], [35:0-2-8,0-2-8], [36:0-2-8,0-2-8]

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	0.46	Vert(LL)	-0.27	15-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.51	15-17	>571	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.07	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.12	15-17	>999	240	Weight: 394 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
19-29: 2x4 SP No.1, 16-23,23-31: 2x4 SP SS
WEBS 2x4 SP No.3 *Except*
5-30,8-17,35-36,32-35,15-36,1-33,12-14: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-4 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-15 max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 26-28.
5-3-0 oc bracing: 19-29
WEBS 1 Row at midpt 32-35, 15-36
JOINTS 1 Brace at Jt(s): 34, 35, 36

REACTIONS. (size) 33=0-3-8, 14=0-3-8, 26=0-5-8
Max Horz 33=-317(LC 8)
Max Grav 33=1866(LC 2), 14=2028(LC 2), 26=1113(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2282/80, 2-4=-2178/315, 4-5=-2733/406, 5-6=-3579/525, 6-8=-3579/525, 8-9=-3139/318, 9-11=-2521/269, 11-12=-2487/46, 1-33=-1807/88, 12-14=-1983/97
BOT CHORD 32-33=-270/438, 30-32=0/1529, 28-30=-42/1338, 26-28=0/1293, 25-26=0/1293, 22-25=0/1293, 18-22=0/1293, 17-18=0/1561, 15-17=0/1555, 27-29=-45/1221, 24-27=-45/1221, 21-24=-326/892, 20-21=-874/0, 19-20=-874/0
WEBS 2-32=-395/409, 29-30=0/572, 29-35=-35/561, 5-35=-584/325, 17-19=0/349, 19-36=0/824, 8-36=-598/336, 11-15=-517/376, 34-35=-398/1230, 34-36=-290/1698, 24-25=-392/0, 18-20=-493/0, 27-28=-255/0, 28-29=-1036/145, 24-28=-933/0, 18-21=0/1156, 18-19=0/931, 6-34=-440/194, 8-34=-520/841, 5-34=-409/1140, 4-35=-147/1445, 9-36=-63/1926, 32-35=-462/534, 15-36=-415/682, 1-32=0/1455, 12-15=0/1699

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 12-9-10, Exterior(2) 12-9-10 to 15-9-10, Interior(1) 15-9-10 to 31-8-6, Exterior(2) 31-8-6 to 34-8-6, Interior(1) 34-8-6 to 45-2-10 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 5x8 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) Ceiling dead load (5.0 psf) on member(s). 34-35, 34-36; Wall dead load (5.0psf) on member(s).29-35, 19-36
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 24-27, 21-24, 20-21, 19-20
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.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644328
CRAFTROOF130	B02T	ROOF TRUSS	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:17 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-QTJjDKXgroAzFkilHHQGjKTXyYDkkn4lHaIU7DzQuVO

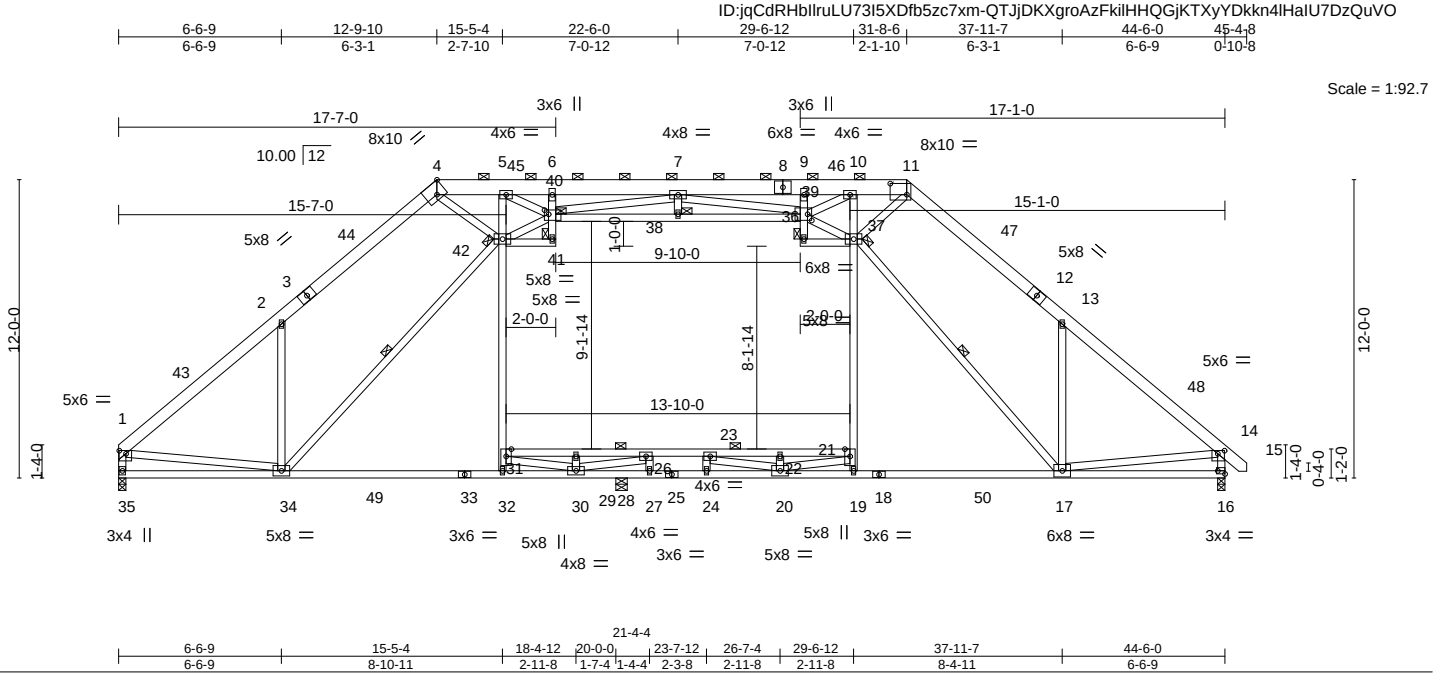


Plate Offsets (X,Y)-- [1:0-3-4,0-1-8], [4:0-4-9,Edge], [11:0-8-0,0-5-5], [14:0-3-4,0-1-8], [16:Edge,0-1-8], [39:0-2-0,0-3-0], [40:0-2-0,0-2-0]

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	0.60	Vert(LL)	-0.28	17-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.53	17-19	>549	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.07	16	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	17-19	>999	240	Weight: 416 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
4-8,8-11: 2x8 SP DSS
BOT CHORD 2x4 SP No.2 *Except*
21-31: 2x4 SP No.1, 18-25,25-33: 2x4 SP SS
WEBS 2x4 SP No.3 *Except*
5-32,10-19,36-37,34-42,17-37,1-35,14-16,39-40,41-42: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-12 max.): 4-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 28-30,27-28.
5-6-0 oc bracing: 21-31
WEBS 1 Row at midpt 34-42, 17-37
JOINTS 1 Brace at Jt(s): 36, 37, 38, 40, 41, 42

REACTIONS. (size) 35=0-3-8, 16=0-3-8, 28=0-5-8
Max Horz 35=-315(LC 8)
Max Grav 35=1828(LC 2), 16=1996(LC 2), 28=1181(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2217/72, 2-4=-2065/292, 4-5=-2350/319, 5-6=-3808/647, 6-7=-3907/671, 7-9=-4541/564, 9-10=-4435/542, 10-11=-2849/231, 11-13=-2401/249, 13-14=-2429/39, 1-35=-1768/84, 14-16=-1948/93
BOT CHORD 34-35=-270/459, 32-34=0/1546, 30-32=-38/1347, 28-30=0/1140, 27-28=0/1140, 24-27=0/1140, 20-24=0/1140, 19-20=0/1535, 17-19=0/1571, 16-17=-75/252, 29-31=-75/1396, 26-29=-75/1396, 23-26=-322/1096, 22-23=-784/50, 21-22=-784/50
WEBS 2-34=-305/394, 31-32=0/575, 31-42=-71/522, 5-42=-663/199, 19-21=0/365, 21-37=0/814, 10-37=-818/144, 13-17=-430/362, 26-27=-421/0, 20-22=-499/0, 29-30=-251/0, 30-31=-1194/135, 26-30=-897/0, 20-23=0/1253, 20-21=-25/869, 10-39=-370/1853, 5-40=-385/1798, 4-42=-44/991, 11-37=0/1508, 34-42=-447/427, 17-37=-401/578, 1-34=0/1366, 14-17=0/1600, 38-40=-556/2829, 38-39=-556/2829, 6-40=-402/163, 9-39=-324/190, 40-42=-373/914, 7-40=-708/348, 37-39=-252/1510, 7-39=-313/485

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 12-9-10, Exterior(2) 12-9-10 to 15-9-10, Interior(1) 15-9-10 to 31-8-6, Exterior(2) 31-8-6 to 34-8-6, Interior(1) 34-8-6 to 45-2-10 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 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) Ceiling dead load (5.0 psf) on member(s). 36-37, 38-40, 38-39, 41-42; Wall dead load (5.0psf) on member(s).31-42, 21-37
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 29-31, 26-29, 23-26, 22-23, 21-22
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.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644329
CRAFTROOF130	B03	MONO HIP	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:18 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-QTJjDKXgroAzFkilHHQGjKTT_YLjksolHaIU7CzQuVO

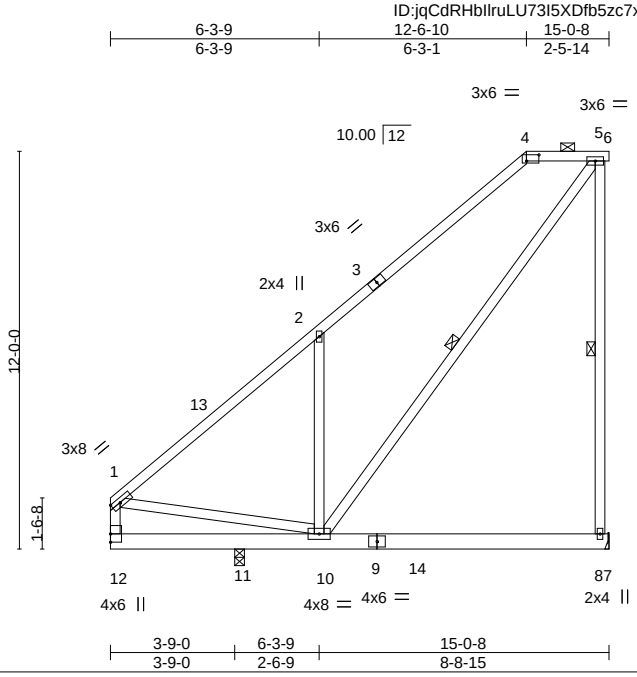


Plate Offsets (X,Y)-- [4:0-4-8,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.11	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.18	8-10	>717	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.15	8-10	>849	240	Weight: 120 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
9-12: 2x6 SP DSS
WEBS 2x4 SP No.2 *Except*
1-10,2-10: 2x4 SP No.3

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

REACTIONS. (size) 8=Mechanical, 11=0-3-8
Max Horz 11=392(LC 12)
Max Uplift 8=-279(LC 12)
Max Grav 8=471(LC 2), 11=787(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-292/58, 1-2=-256/44, 2-4=-355/279, 4-5=-279/291
BOT CHORD 10-11=-486/327
WEBS 1-10=-40/364, 2-10=-541/373, 5-10=-497/478, 5-8=-411/381

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 12-6-10, Exterior(2) 12-6-10 to 15-0-8 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=279.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644330
CRAFTROOF130	C01	COMMON	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:18 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-uft5QgXIb6IqsuGxr?xVGX0kFyjKTPDuWE12fgzQuVN

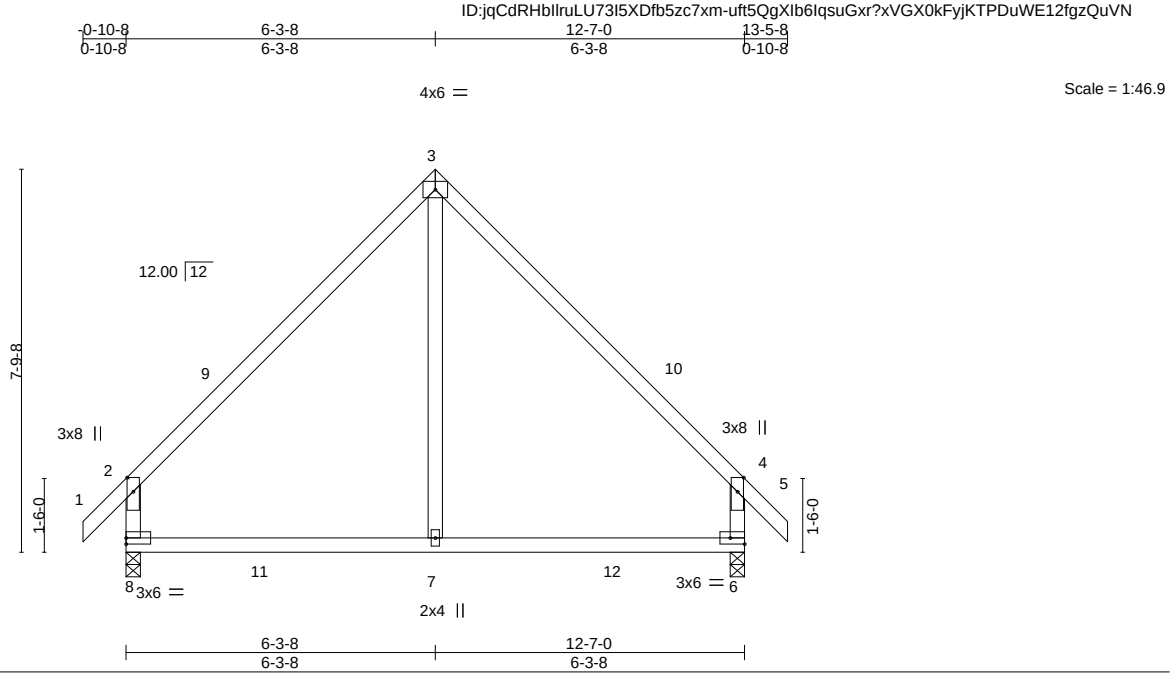


Plate Offsets (X,Y)-- [6:Edge,0-1-8]

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	0.50	Vert(LL)	-0.05	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.09	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	-0.07	7-8	>999	240	Weight: 63 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-7: 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) 8=0-3-8, 6=0-3-8
Max Horz 8=-228(LC 10)
Max Uplift 8=-39(LC 13), 6=-39(LC 12)
Max Grav 8=598(LC 20), 6=598(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-506/193, 2-3=-546/138, 3-4=-546/137, 4-6=-506/192
BOT CHORD 7-8=-31/341, 6-7=-31/341
WEBS 3-7=0/330

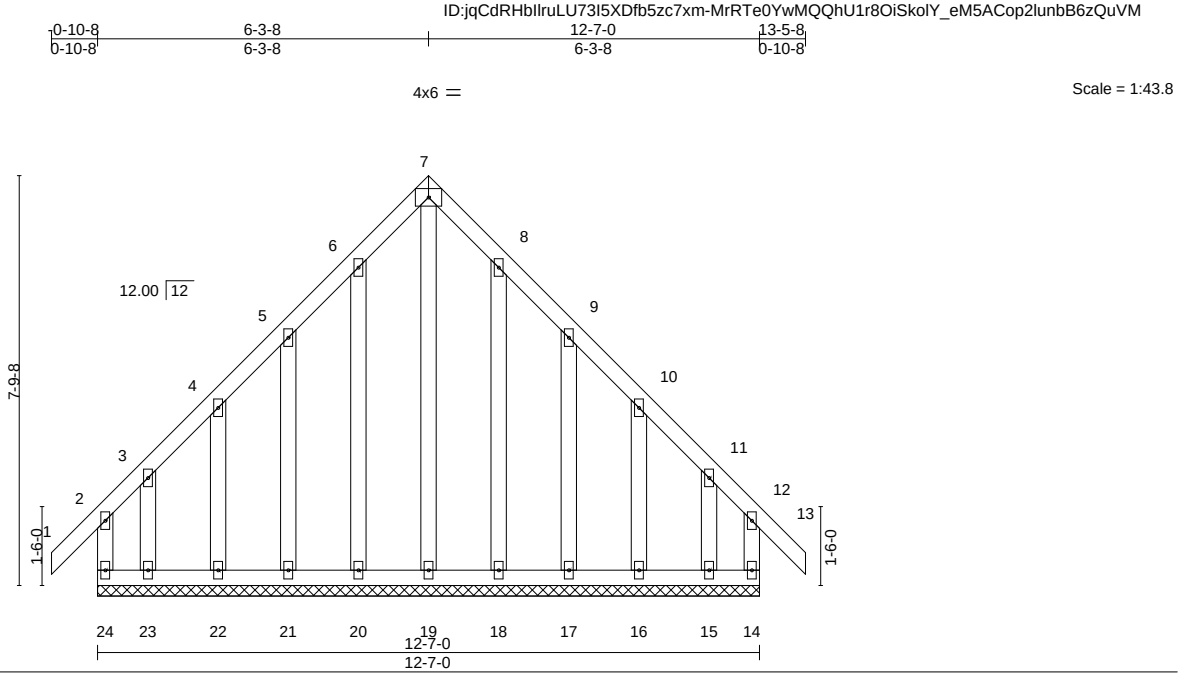
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-3-8, Exterior(2) 6-3-8 to 10-6-7, Interior(1) 10-6-7 to 13-5-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644331
CRAFTROOF130	C01G	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:19 2021 Page 1
ID:jqCdRHblIruLU73l5XDfb5zc7xm-MrRTe0YwMQQhU1r8OiSkolY_eM5ACop2lunbB6zQuVM



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	13	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.36	Horz(CT)	-0.00	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							Weight: 110 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 12-7-0.
(lb) - Max Horz 24=-228(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 20, 21, 22, 18, 17, 16 except 24=-233(LC 8), 14=-210(LC 9), 23=-231(LC 9), 15=-215(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 18, 17, 16 except 24=274(LC 11), 14=251(LC 19), 19=278(LC 13), 23=272(LC 10), 15=254(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-7=-212/292, 7-8=-212/292
WEBS 7-19=-343/203

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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) -0-10-8 to 2-3-8, Exterior(2) 2-3-8 to 6-3-8, Corner(3) 6-3-8 to 9-3-8, Exterior(2) 9-3-8 to 13-5-8 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) 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) 20, 21, 22, 18, 17, 16 except (jt=lb) 24=233, 14=210, 23=231, 15=215.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644332
CRAFTROOF130	C01T	SPECIAL	99	1	Job Reference (optional)

Builders firstsource, Apex . NC 8.430 s Mar 31 2021 MiTek Industries, Inc. Wed Apr 14 09:55:26 2021 Page 1
ID:jqCdRHblIruLU73I5XDfb5zc7xm-SWdQMSdny0A4ADE16W7vyFh_bf1QWEVypBL8nezQqwV

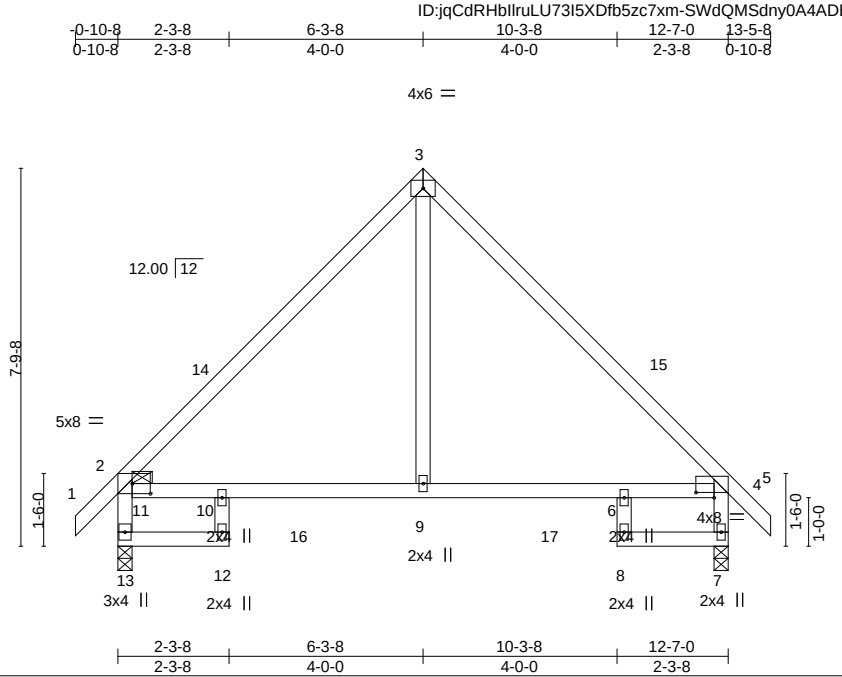


Plate Offsets (X,Y)-- [2:0-4-8,0-2-8], [4:0-4-8,0-1-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.10	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.13	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.12	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 70 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-13,4-7: 2x4 SP No.2

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

REACTIONS. (lb/size) 13=553/0-3-8 (min. 0-1-8), 7=553/0-3-8 (min. 0-1-8)
Max Horz 13=-226(LC 10)
Max Uplift 13=-39(LC 13), 7=-38(LC 13)
Max Grav 13=568(LC 20), 7=569(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 11-13=-586/159, 2-11=-540/187, 2-14=-559/78, 3-14=-424/113, 3-15=-500/131, 4-15=-607/92, 4-7=-542/160
BOT CHORD 10-11=-36/398, 10-16=-36/398, 9-16=-36/398, 9-17=-36/398, 6-17=-36/398, 4-6=-34/399
WEBS 3-9=0/328

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-3-8, Exterior(2) 6-3-8 to 10-6-7, Interior(1) 10-6-7 to 13-5-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 13 and 38 lb uplift at joint 7.

LOAD CASE(S) Standard

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644333
CRAFTROOF130	C02-1PL	COMMON	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:21 2021 Page 1
ID:jqCdRHblIruLU73I5XDfb5zc7xm-IEYE3iaBu1gPjL?WW7UCuAeBcAk5fffLCCGiG_zQuVK

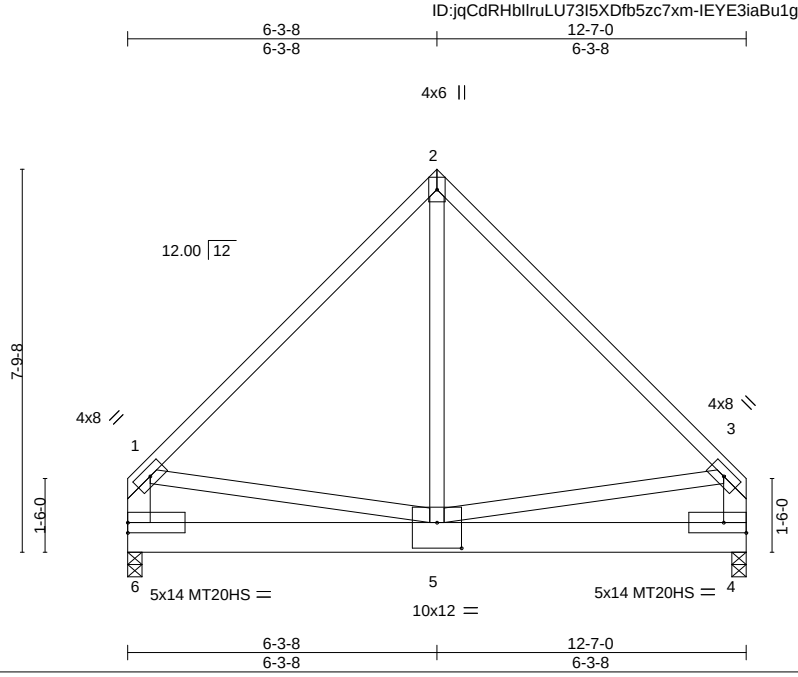


Plate Offsets (X,Y)-- [5:0-6-0,0-6-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.04	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.08	5-6	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.04	5-6	>999	240	Weight: 98 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.2 *Except*
1-6,3-4: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 4=0-3-8
Max Horz 6=198(LC 5)
Max Uplift 6=-439(LC 9), 4=-439(LC 8)
Max Grav 6=2779(LC 15), 4=2805(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1685/293, 1-2=-2005/390, 2-3=-2075/390, 3-4=-1709/293
BOT CHORD 5-6=-271/657, 4-5=-174/471
WEBS 2-5=-358/2423, 3-5=-123/989, 1-5=-120/984

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=439, 4=439.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

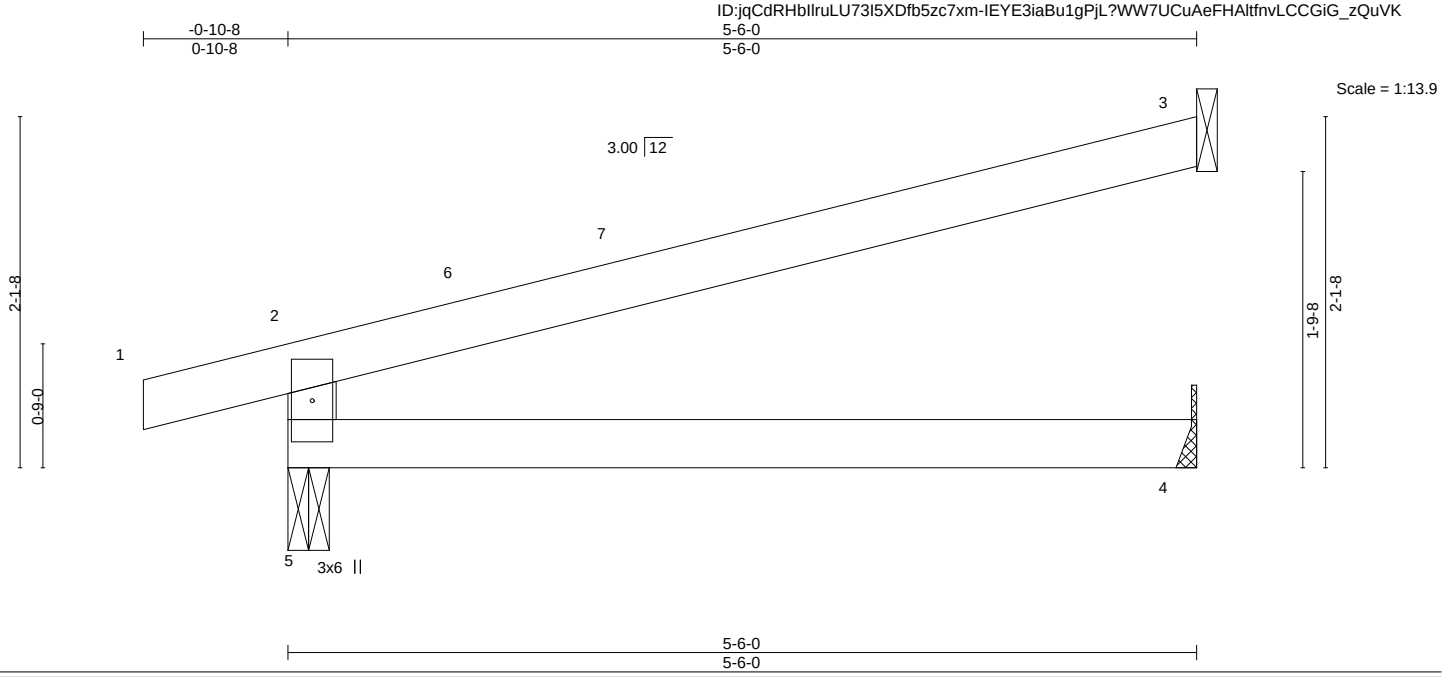
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 4-6=-364(F=-344)

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644334
CRAFTROOF130	CP01	JACK	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:21 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-IEYE3iaBu1gPjL?WW7UCuAeFHAltfnvLCCGiG_zQuVK



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	0.10	4-5	>667	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.08	4-5	>790	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 18 lb	FT = 20%

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

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

REACTIONS. (size) 5=0-3-0, 3=Mechanical, 4=Mechanical
Max Horz 5=58(LC 8)
Max Uplift 5=-124(LC 8), 3=-72(LC 8), 4=-26(LC 8)
Max Grav 5=279(LC 1), 3=143(LC 1), 4=99(LC 3)

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

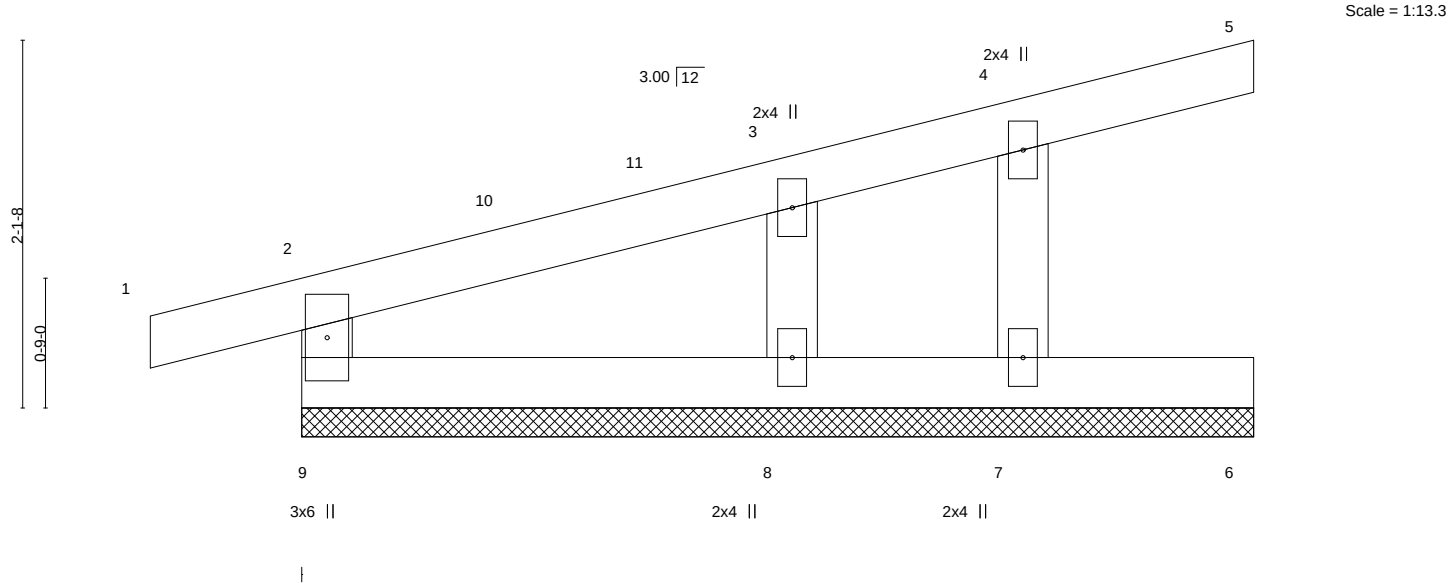
NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=124.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644335
CRAFTROOF130	CP01G	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:22 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-nQ6cG1apfLoGLVaj4q0RQNAW?Z9EOEaURs?FoRzQuVJ



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	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 22 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 5-6-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-6-0.
(lb) - Max Horz 9=58(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 9, 5, 7, 8
Max Grav All reactions 250 lb or less at joint(s) 9, 5, 6, 7, 8

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

NOTES-

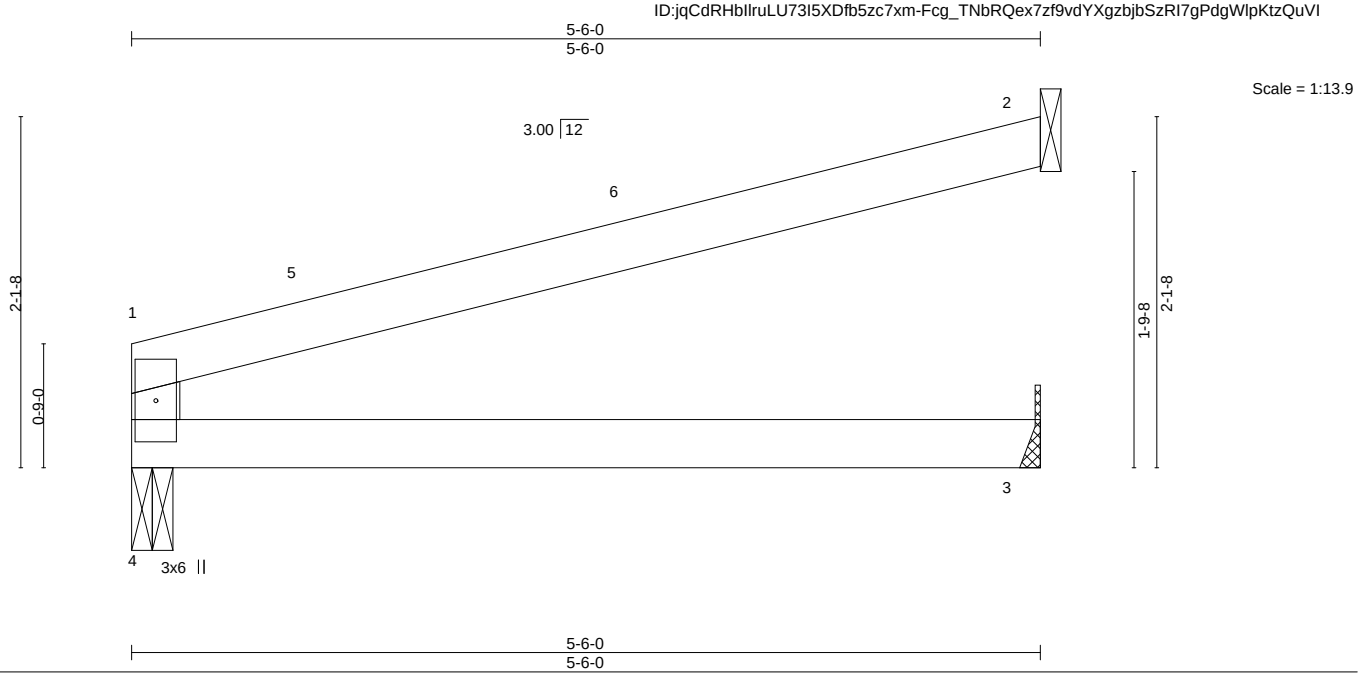
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 5, 7, 8.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644336
CRAFTROOF130	CP02	JACK	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:23 2021 Page 1
ID:jqCdRHblruLU73I5XDfb5zc7xm-Fcg_TNbRQex7zf9vdYXgzbjbSzRI7gPdgWlpKtzQuVI



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)	0.10	3-4	>657	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.08	3-4	>772	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 17 lb	FT = 20%

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

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

REACTIONS. (size) 4=0-3-0, 2=Mechanical, 3=Mechanical
Max Horz 4=45(LC 12)
Max Uplift 4=-79(LC 8), 2=-74(LC 8), 3=-27(LC 8)
Max Grav 4=212(LC 1), 2=147(LC 1), 3=100(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 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 5-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 3.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644337
CRAFTROOF130	D01	COMMON	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:23 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-Fcg_TNbRQex7zf9vdYXgzbja4zPM7e6dgWlpKtzQuVI

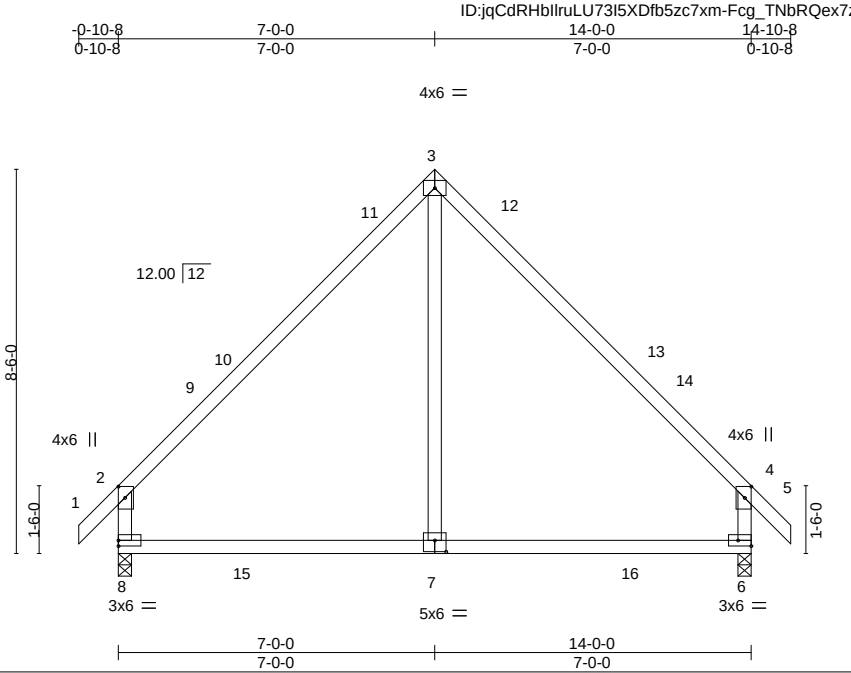


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [4:0-3-0,0-1-12], [6:Edge,0-1-8], [7:0-3-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.08	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.13	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	-0.09	7-8	>999	240	Weight: 70 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-7: 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) 8=0-3-8, 6=0-3-8
Max Horz 8=246(LC 11)
Max Uplift 8=-39(LC 12), 6=-39(LC 13)
Max Grav 8=669(LC 20), 6=669(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-567/198, 2-3=-625/143, 3-4=-625/143, 4-6=-567/198
BOT CHORD 7-8=-31/391, 6-7=-31/391
WEBS 3-7=0/388

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 14-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644338
CRAFTROOF130	D01G	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:24 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-jpEMhjc3By3_bpk5BF2vVoGrFNpDs05nuAUMtJzQuVH

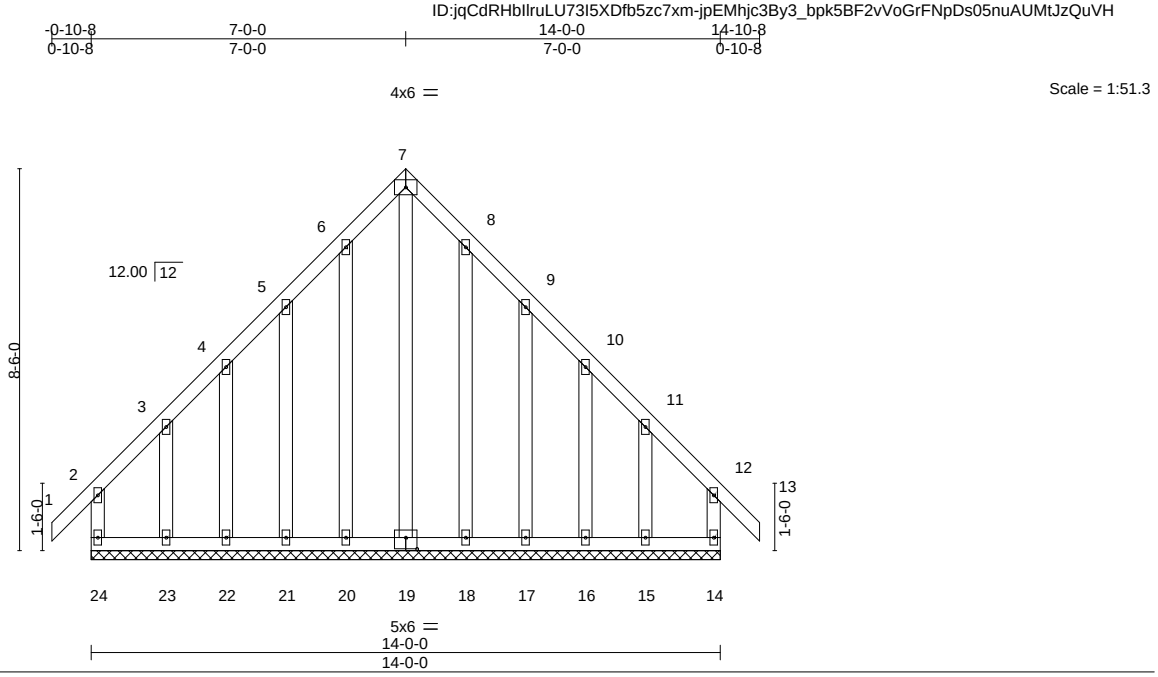


Plate Offsets (X,Y)-- [19:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.00	13	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 124 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 14-0-0.
(lb) - Max Horz 24=-246(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 20, 21, 22, 18, 17, 16 except 24=-174(LC 8), 14=-158(LC 9), 23=-186(LC 9), 15=-179(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 24, 14, 20, 21, 22, 18, 17, 16, 15 except 19=316(LC 13), 23=251(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-210/285, 6-7=-244/325, 7-8=-244/325, 8-9=-210/285
WEBS 7-19=-385/245

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 7-0-0, Corner(3) 7-0-0 to 10-0-0, Exterior(2) 10-0-0 to 14-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 20, 21, 22, 18, 17, 16 except (jt=lb) 24=174, 14=158, 23=186, 15=179.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644339
CRAFTROOF130	D01T	SPECIAL	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:25 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-B?olu3dhyGBrCyJIlzZ820ou0n33bYcw7qEwPmzQuVG

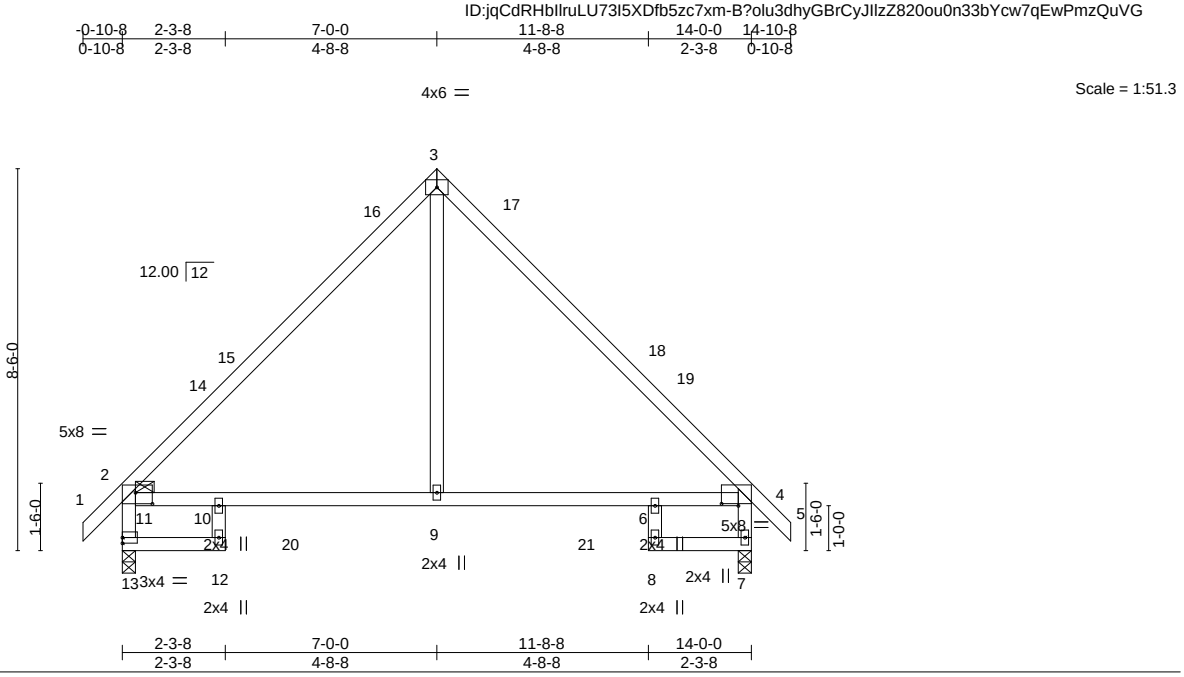


Plate Offsets (X,Y)-- [2:0-4-8,0-3-0], [4:0-4-8,0-0-9]

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	0.66	Vert(LL)	0.14	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.19	9-10	>872	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.16	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 76 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-13,4-7: 2x4 SP No.2

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

REACTIONS. (size) 13=0-3-8, 7=0-3-8
Max Horz 13=-244(LC 10)
Max Uplift 13=-39(LC 12), 7=-41(LC 13)
Max Grav 13=639(LC 20), 7=641(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 11-13=-666/167, 2-11=-605/197, 2-3=-643/123, 3-4=-689/137, 4-7=-618/167
BOT CHORD 10-11=-35/451, 9-10=-35/451, 6-9=-35/451, 4-6=-33/453
WEBS 3-9=0/388

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 14-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 7.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644340
CRAFTROOF130	D02T	SPECIAL	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:26 2021 Page 1
ID:jqCdRHblIruLU73I5XDfb5zc7xm-fBM76PdJjZJiq6uUJg4NbDL2NBOaK?r4MUzTxCzQuVF

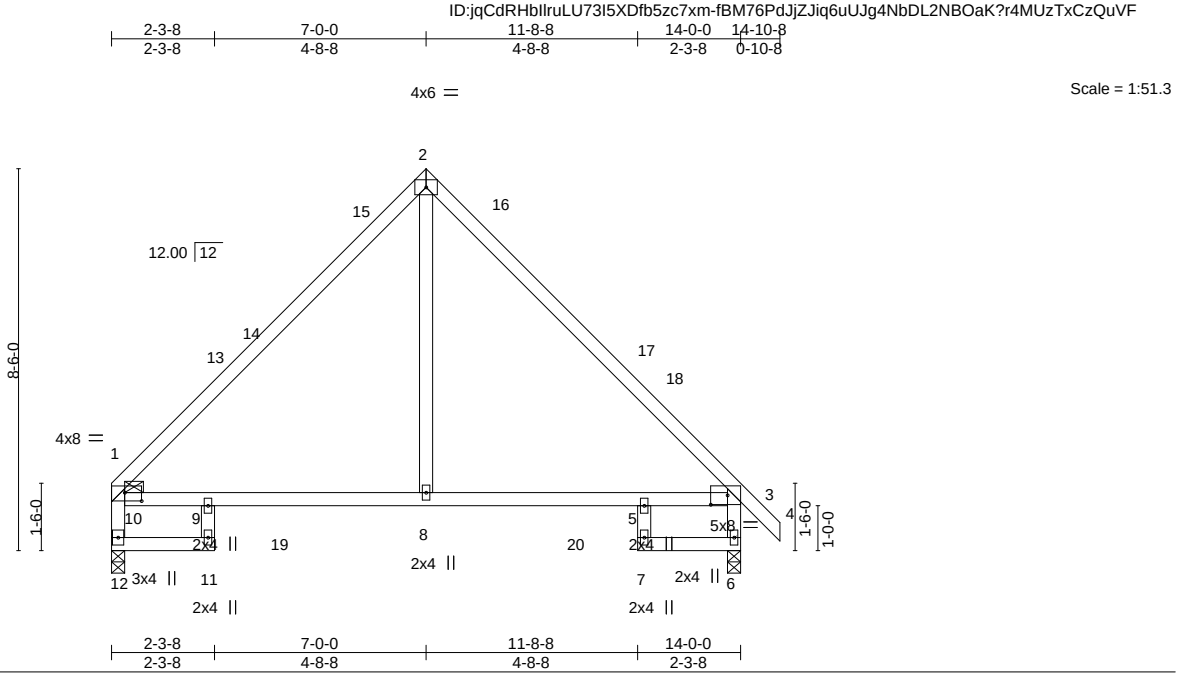


Plate Offsets (X,Y)-- [1:0-4-8,0-2-4], [3:0-4-8,0-2-8]

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	0.75	Vert(LL)	0.13	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.18	8-9	>903	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.14	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 74 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
1-12,3-6: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-3-8, 6=0-3-8
Max Horz 12=-235(LC 8)
Max Uplift 12=-31(LC 13), 6=-41(LC 13)
Max Grav 12=599(LC 20), 6=642(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-12=-600/108, 1-10=-540/142, 1-2=-639/113, 2-3=-690/132, 3-6=-619/166
BOT CHORD 9-10=-34/453, 8-9=-34/453, 5-8=-34/453, 3-5=-32/455
WEBS 2-8=0/386

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 7-0-0, Exterior(2) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 14-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 6.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644341
CRAFTROOF130	D03T	SPECIAL	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:27 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-7OwVJlexUtRZSGTgsObc7RuD9ak13S5Db8j0UezQuVE

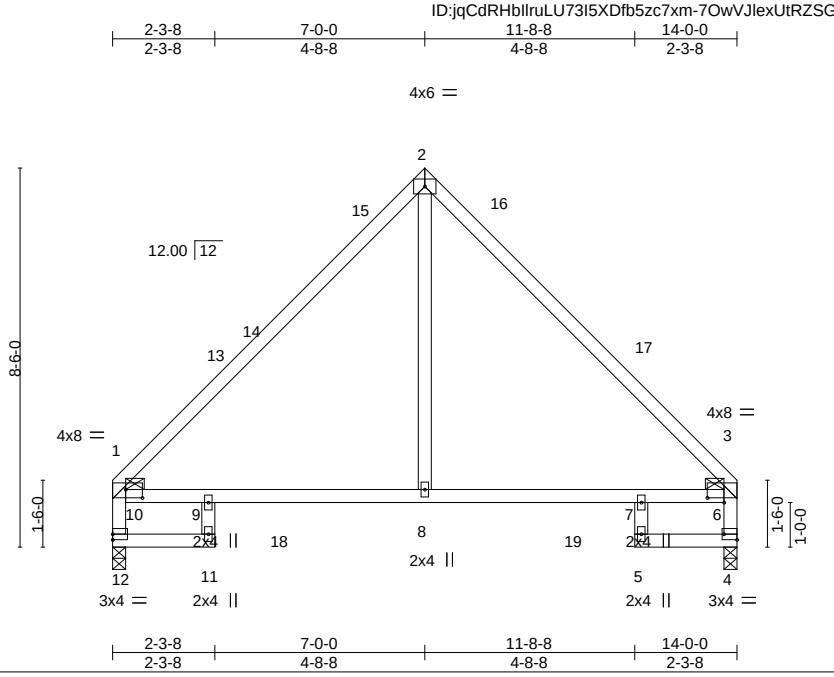


Plate Offsets (X,Y)-- [1:0-4-8,0-2-4], [3:0-4-8,0-1-4], [4:Edge,0-1-8]

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	0.75	Vert(LL)	0.14	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.18	8-9	>933	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.11	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 73 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
1-12,3-4: 2x4 SP No.2

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

REACTIONS. (size) 12=0-3-8, 4=0-3-8
Max Horz 12=-220(LC 8)
Max Uplift 12=-30(LC 13), 4=-30(LC 12)
Max Grav 12=601(LC 20), 4=601(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-12=-599/112, 1-10=-540/142, 1-2=-641/115, 2-3=-683/136, 4-6=-572/113, 3-6=-534/140
BOT CHORD 9-10=-46/441, 8-9=-46/441, 7-8=-46/441, 6-7=-46/441
WEBS 2-8=0/386

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 7-0-0, Exterior(2) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 13-10-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 4.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644342
CRAFTROOF130	D04	COMMON	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:28 2021 Page 1
ID:jqCdRHblIruLU73I5XDfb5zc7xm-baUtX5faFBZQ3Q1sQ57rgeQRI_31ovcMpoSa04zQuVD

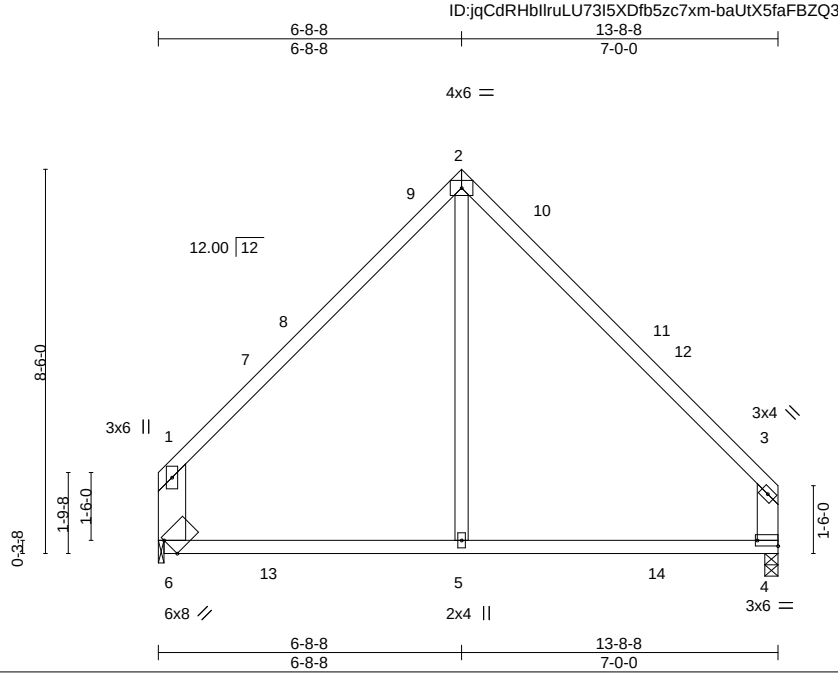


Plate Offsets (X,Y)-- [4:Edge,0-1-8]

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	0.53	Vert(LL)	-0.10	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.18	4-5	>872	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	-0.10	4-5	>999	240	Weight: 70 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
2-3: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x8 SP DSS *Except*
3-4: 2x6 SP No.2, 2-5: 2x4 SP No.3

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

REACTIONS. (size) 4=0-3-8, 6=0-1-8
Max Horz 6=-226(LC 10)
Max Uplift 4=-33(LC 12), 6=-32(LC 13)
Max Grav 4=610(LC 19), 6=620(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-472/151, 1-2=-572/141, 2-3=-580/139, 3-4=-477/153
BOT CHORD 5-6=-47/354, 4-5=-47/354
WEBS 2-5=0/342

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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) 0-7-2 to 3-7-2, Interior(1) 3-7-2 to 7-0-0, Exterior(2) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 13-9-4 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) 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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 6.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644343
CRAFTROOF130	D04T	SPECIAL	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:28 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-baUtX5faFBZQ3Q1sQ57rgeQOn_5OovUMpoSa04zQuVD

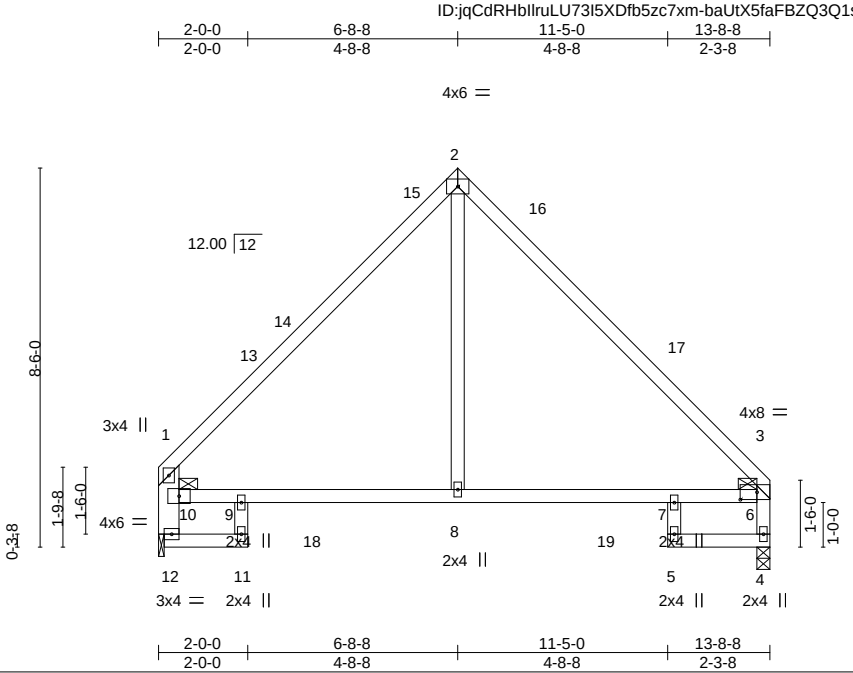


Plate Offsets (X,Y)-- [3:0-4-8,0-2-0]

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	0.75	Vert(LL)	0.12	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.15	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.09	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 73 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
1-12: 2x6 SP No.2, 3-4: 2x4 SP No.2

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

REACTIONS. (size) 4=0-3-8, 12=0-1-8
Max Horz 12=-225(LC 8)
Max Uplift 4=-32(LC 12), 12=-32(LC 13)
Max Grav 4=585(LC 19), 12=594(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-12=-579/132, 1-10=-514/140, 1-2=-605/116, 2-3=-656/136, 4-6=-557/113, 3-6=-516/141
BOT CHORD 9-10=-51/421, 8-9=-51/421, 7-8=-51/421, 6-7=-51/421
WEBS 2-8=0/364

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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) 0-6-4 to 3-6-4, Interior(1) 3-6-4 to 7-0-0, Exterior(2) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 13-10-4 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) 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) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 12.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644344
CRAFTROOF130	E01	COMMON	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:29 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-3m1FkRgC0UhHhac3_pe4CszivOWiXOuW2SC7YXzQuVC

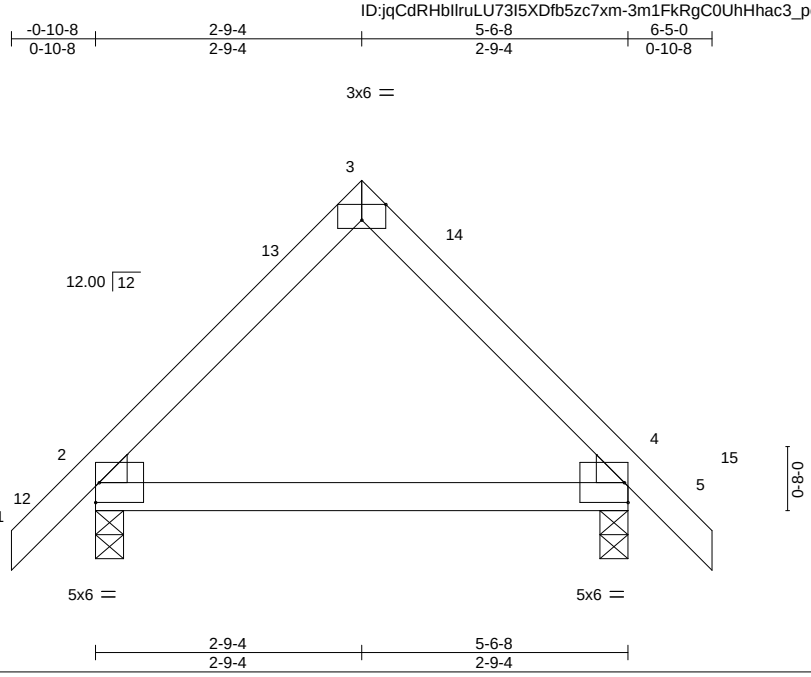


Plate Offsets (X,Y)-- [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.02	8-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.04	8-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.02	8-11	>999	240	Weight: 25 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=92(LC 11)
Max Uplift 2=-37(LC 12), 4=-37(LC 13)
Max Grav 2=274(LC 1), 4=274(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 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-9-4, Exterior(2) 2-9-4 to 6-5-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644345
CRAFTROOF130	G01G	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:31 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-099096hSY6x_wtmR5DgYIH20iCBu?DspVmhEdPzQuVA

-0-10-8 10-0-0 20-0-0 20-10-8
0-10-8 10-0-0 10-0-0 0-10-8

Scale = 1:72.4

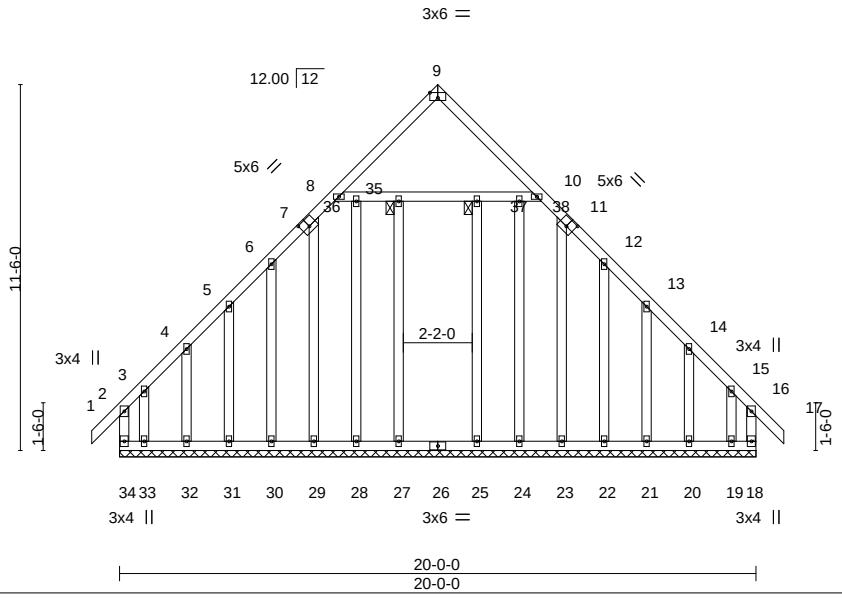


Plate Offsets (X,Y)-- [7:0-3-0,0-3-0], [9:0-3-0,Edge], [11:0-3-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.00	16	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.00	16	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 199 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 8-10: 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.
JOINTS	1 Brace at Jt(s): 35, 37

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 34=-322(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 27, 28, 29, 30, 31, 32, 25, 23, 22, 21, 20 except 34=-399(LC 8), 18=-344(LC 9), 33=-414(LC 9), 19=-374(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20 except 34=591(LC 20), 18=548(LC 19), 33=372(LC 10), 19=330(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-34=-381/247, 2-3=-346/267, 6-7=-237/295, 7-8=-250/249, 10-11=-252/250, 11-12=-235/283, 15-16=-318/231, 16-18=-354/213
WEBS 8-36=-179/271, 35-36=-179/271, 35-37=-179/271, 37-38=-179/271, 10-38=-179/271

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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) -0-10-8 to 2-1-4, Exterior(2) 2-1-4 to 10-0-0, Corner(3) 10-0-0 to 13-0-0, Exterior(2) 13-0-0 to 20-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 28, 29, 30, 31, 32, 25, 23, 22, 21, 20 except (jt=lb) 34=399, 18=344, 33=414, 19=374.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644346
CRAFTROOF130	G02	HIP	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:32 2021 Page 1
ID:jqCdRHblIruLU73I5XDfb5zc7xm-ULjOMSi4IP3rY1LefxBnqUb2TbL1kfzykQQn9szQuV9

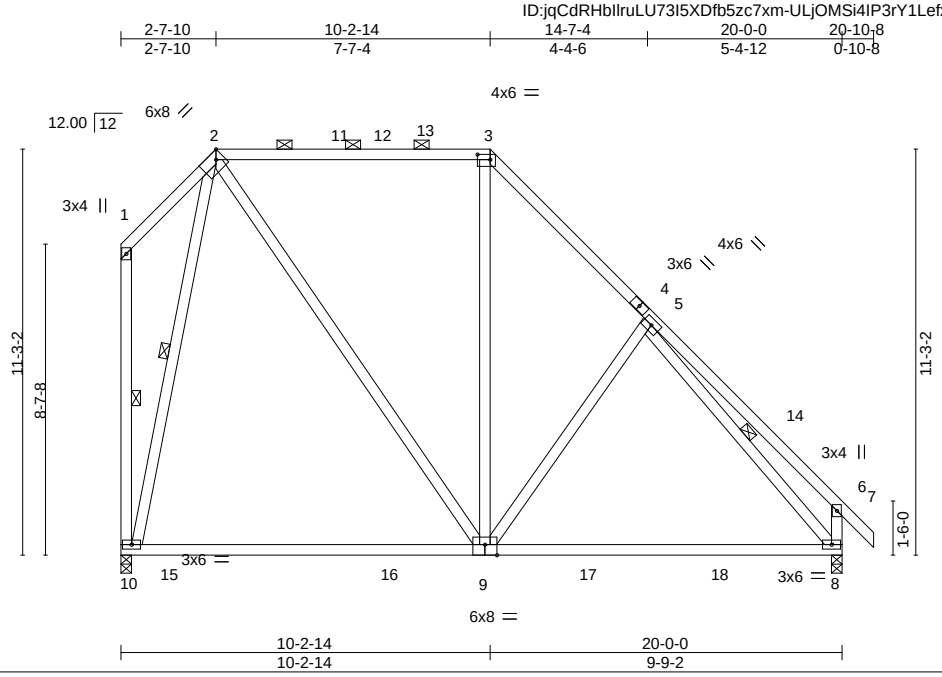


Plate Offsets (X,Y)-- [2:0-2-8,Edge], [3:0-4-4,0-1-12], [9:0-4-0,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.38	9-10	>617	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.59	9-10	>402	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	-0.06	9-10	>999	240	Weight: 158 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
2-3: 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
1-10,6-8,2-9: 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.): 2-3.
BOT CHORD Rigid ceiling directly applied or 8-11-2 oc bracing.
WEBS 1 Row at midpt 1-10, 2-10, 5-8

REACTIONS. (size) 10=0-3-8, 8=0-3-8
Max Horz 10=-403(LC 8)
Max Uplift 10=-118(LC 13), 8=-100(LC 13)
Max Grav 10=861(LC 2), 8=862(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-263/246, 1-2=-287/298, 2-3=-467/225, 3-5=-665/245, 5-6=-396/226, 6-8=-427/234
BOT CHORD 9-10=-228/314, 8-9=-4/501
WEBS 2-10=-693/341, 2-9=-126/516, 5-9=-291/265, 5-8=-574/71

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 6-10-9, Interior(1) 6-10-9 to 10-2-14, Exterior(2) 10-2-14 to 14-9-4, Interior(1) 14-9-4 to 20-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=118, 8=100.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644347
CRAFTROOF130	G02SG	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:33 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-yYHmaoji3jBiABwqDei0Ni7DD?hGT6D6z4ALhIzQuV8

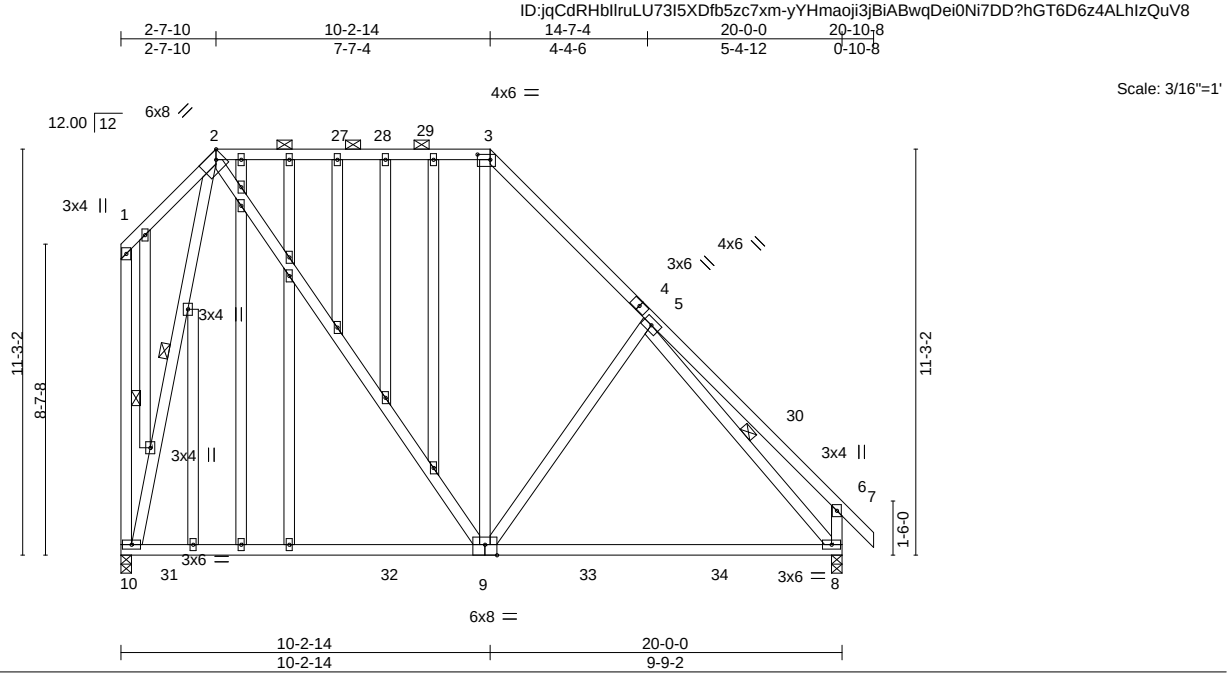


Plate Offsets (X,Y)-- [2:0-2-8,Edge], [3:0-4-4,0-1-12], [9:0-4-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.38	9-10	>617	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.59	9-10	>402	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	-0.06	9-10	>999	240	Weight: 238 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 2-3: 2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3 *Except* 1-10,6-8,2-9: 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.): 2-3.
BOT CHORD	Rigid ceiling directly applied or 8-11-2 oc bracing.
WEBS	1 Row at midpt 1-10, 2-10, 5-8

REACTIONS. (size) 10=0-3-8, 8=0-3-8
Max Horz 10=-403(LC 8)
Max Uplift 10=-118(LC 13), 8=-100(LC 13)
Max Grav 10=861(LC 2), 8=862(LC 2)

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

TOP CHORD	1-10=-263/246, 1-2=-287/298, 2-3=-467/225, 3-5=-665/245, 5-6=-396/226, 6-8=-427/234
BOT CHORD	9-10=-228/314, 8-9=-4/501
WEBS	2-10=-693/341, 2-9=-126/516, 5-9=-291/265, 5-8=-574/71

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 6-10-9, Interior(1) 6-10-9 to 10-2-14, Exterior(2) 10-2-14 to 14-9-4, Interior(1) 14-9-4 to 20-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=118, 8=100.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644348
CRAFTROOF130	G03	HIP	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:33 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-yYHmaoji3jBiABwqDei0Ni7DA?hGT6C6z4ALhIzQuV8

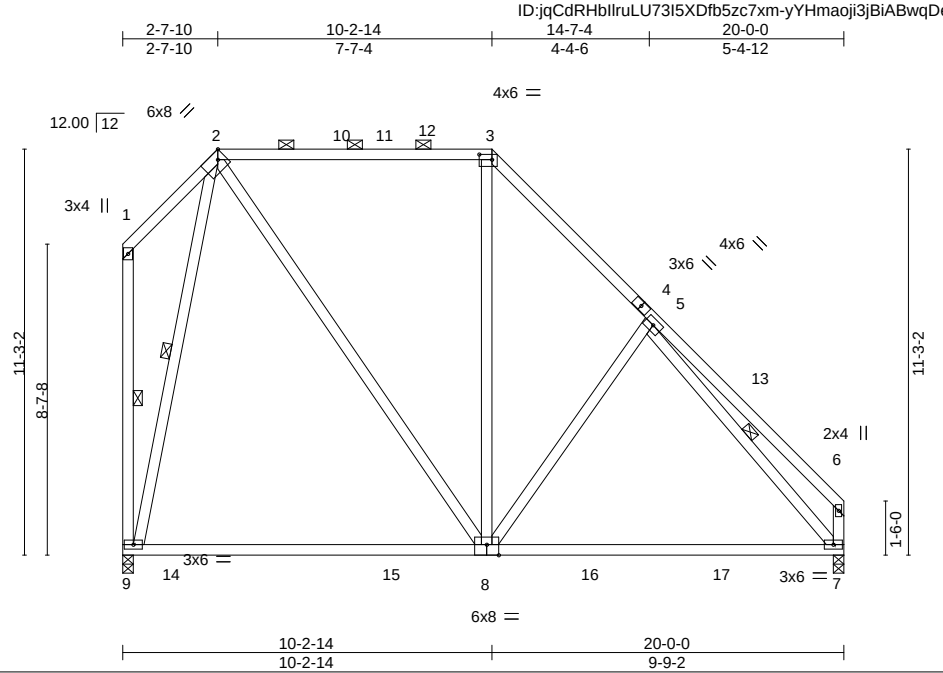


Plate Offsets (X,Y)-- [2:0-2-8,Edge], [3:0-4-4,0-1-12], [8:0-4-0,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.38	8-9	>617	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.59	8-9	>402	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	-0.06	8-9	>999	240	Weight: 156 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
2-3: 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
1-9,6-7,2-8: 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.): 2-3.
BOT CHORD Rigid ceiling directly applied or 8-11-2 oc bracing.
WEBS 1 Row at midpt 1-9, 2-9, 5-7

REACTIONS. (size) 9=0-3-8, 7=0-3-8
Max Horz 9=-386(LC 8)
Max Uplift 9=-117(LC 12), 7=-79(LC 13)
Max Grav 9=863(LC 2), 7=809(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-263/246, 1-2=-287/298, 2-3=-468/225, 3-5=-669/249, 5-6=-344/157, 6-7=-326/155
BOT CHORD 8-9=-203/291, 7-8=-49/494
WEBS 2-9=-695/340, 2-8=-125/517, 5-8=-296/266, 5-7=-587/71

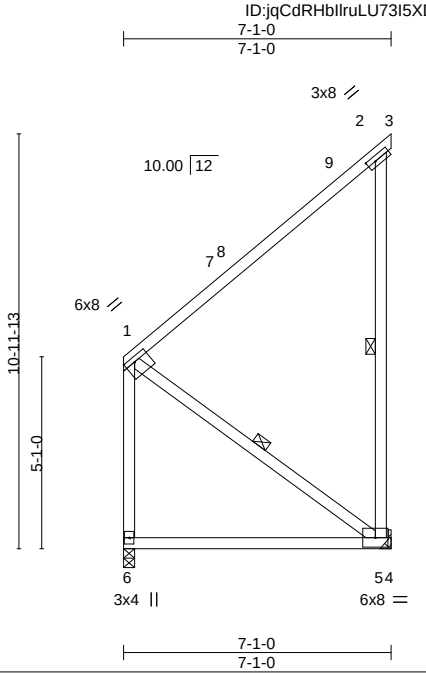
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 6-10-9, Interior(1) 6-10-9 to 10-2-14, Exterior(2) 10-2-14 to 14-9-4, Interior(1) 14-9-4 to 19-10-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 9=117.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644349
CRAFTROOF130	H01	MONO TRUSS	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:34 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-Qkr8n8kLq1JZnLV0nMDFvvgNPP9HCc5FCkvuDkzQuV7



Scale = 1:61.0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.08	5-6	>994	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.15	5-6	>516	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	-0.08	5-6	>999	240	Weight: 58 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
1-5: 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 6-11-2 oc bracing.
WEBS 1 Row at midpt 2-5, 1-5

REACTIONS. (size) 6=0-3-8, 5=Mechanical
Max Horz 6=397(LC 9)
Max Uplift 6=-130(LC 8), 5=-309(LC 9)
Max Grav 6=443(LC 20), 5=446(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-324/311, 2-5=-352/280, 1-6=-424/306
BOT CHORD 5-6=-595/604
WEBS 1-5=-546/566

NOTES-
1) Wind: ASCE 7-10; Vult=130mph 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 7-1-0 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) except (jt=lb) 6=130, 5=309.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644350
CRAFTROOF130	H01G	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:35 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-uwPX?UkzbKRQPV4DK3lUS7DXZpWHxvmOQOfRmAzQuV6

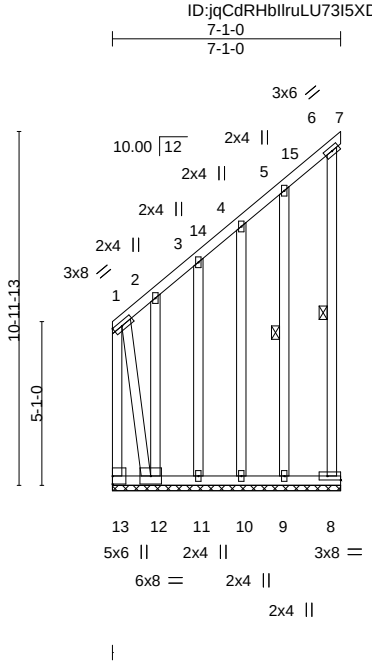


Plate Offsets (X,Y)-- [8:Edge,0-1-8]

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	0.91	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	-0.10	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 97 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 1-12: 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, Except: 7-9-8 oc bracing: 12-13.
WEBS	1 Row at midpt 6-8, 5-9

REACTIONS. All bearings 7-1-0.
(lb) - Max Horz 13=398(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 11, 10, 9 except 13=-877(LC 10), 7=-119(LC 8), 8=-309(LC 11), 12=-1069(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 7, 11, 10, 9 except 13=1233(LC 9), 8=262(LC 8), 12=880(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-381/392, 2-3=-394/405, 3-4=-313/328, 4-5=-275/295, 1-13=-1901/1872
BOT CHORD 12-13=-546/557
WEBS 1-12=-1735/1756

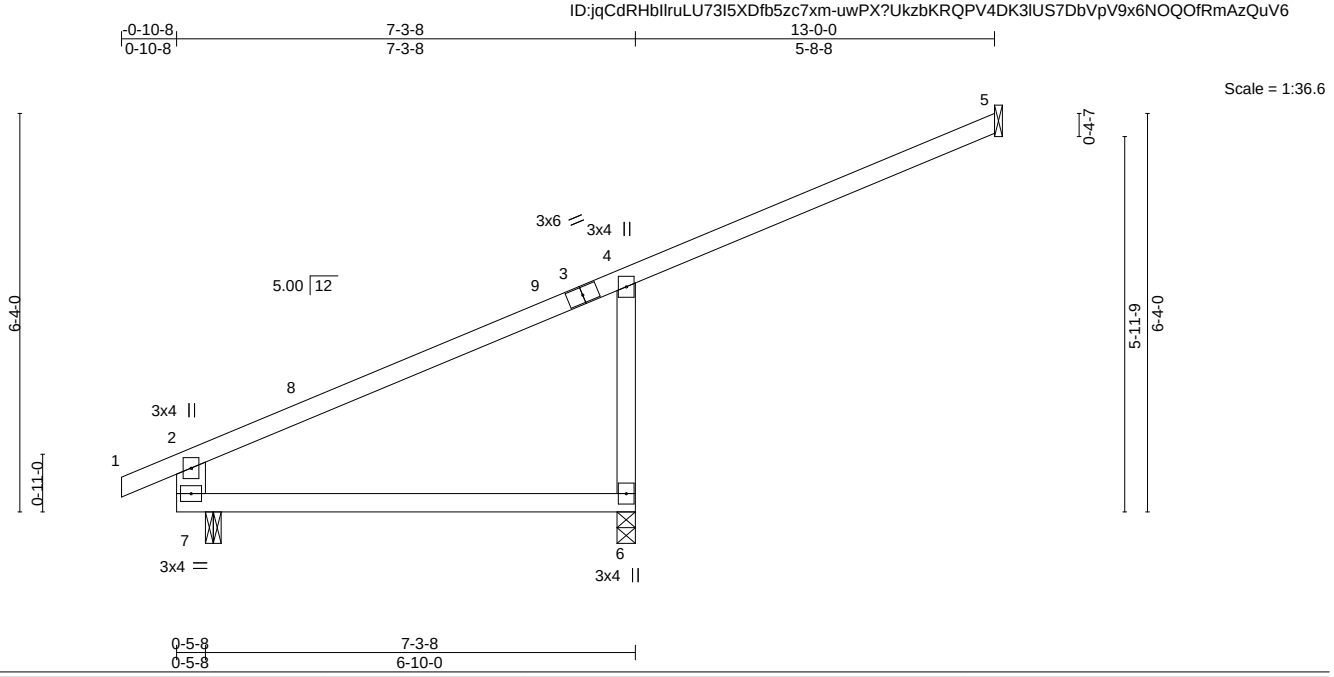
NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 10, 9 except (jt=lb) 13=877, 7=119, 8=309, 12=1069.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644351
CRAFTROOF130	P01	MONO TRUSS	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:35 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-uwPX?UkzbKRQPV4DK3lUS7DbVpV9x6NOQOfRmAzQuV6



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	0.66	Vert(LL)	-0.08	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.17	6-7	>484	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.06	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.18	6-7	>463	240	Weight: 40 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
2-7: 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 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-0, 6=0-3-8, 5=Mechanical
Max Horz 7=220(LC 9)
Max Uplift 7=-60(LC 8), 6=-200(LC 9), 5=-46(LC 8)
Max Grav 7=311(LC 1), 6=527(LC 1), 5=129(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-6=-445/236, 2-7=-254/133

NOTES-
1) Wind: ASCE 7-10; Vult=130mph 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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) 7, 5 except (jt=lb) 6=200.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644352
CRAFTROOF130	P01G	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:36 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-M7yvCqlbMeZH1ffPunGj?KlmFDrOgZdYf2O?IdzQuV5

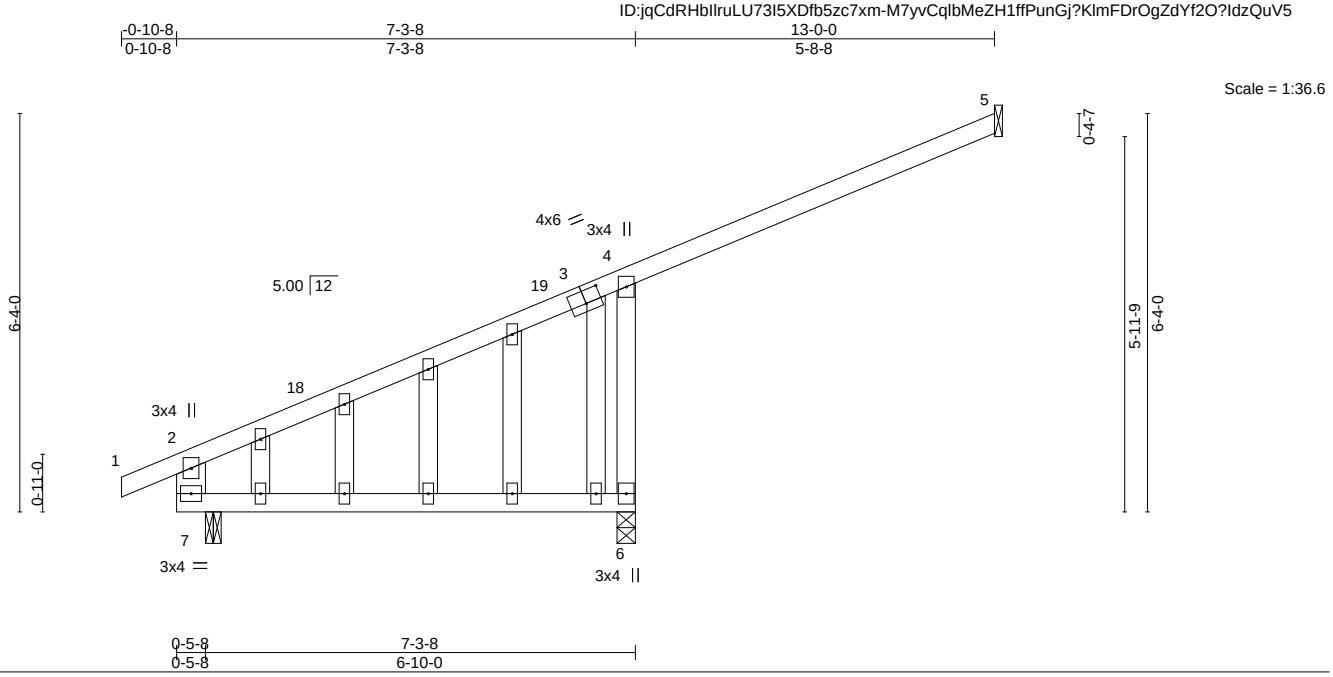


Plate Offsets (X,Y)-- [17:0-3-0,0-2-8]

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	0.66	Vert(LL)	-0.08	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.17	6-7	>484	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.06	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.18	6-7	>463	240	Weight: 55 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 2-7: 2x6 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 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-0, 6=0-3-8, 5=Mechanical
Max Horz 7=220(LC 9)
Max Uplift 7=-60(LC 8), 6=-200(LC 9), 5=-46(LC 8)
Max Grav 7=311(LC 1), 6=527(LC 1), 5=129(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-6=-445/236, 2-7=-254/133

NOTES-

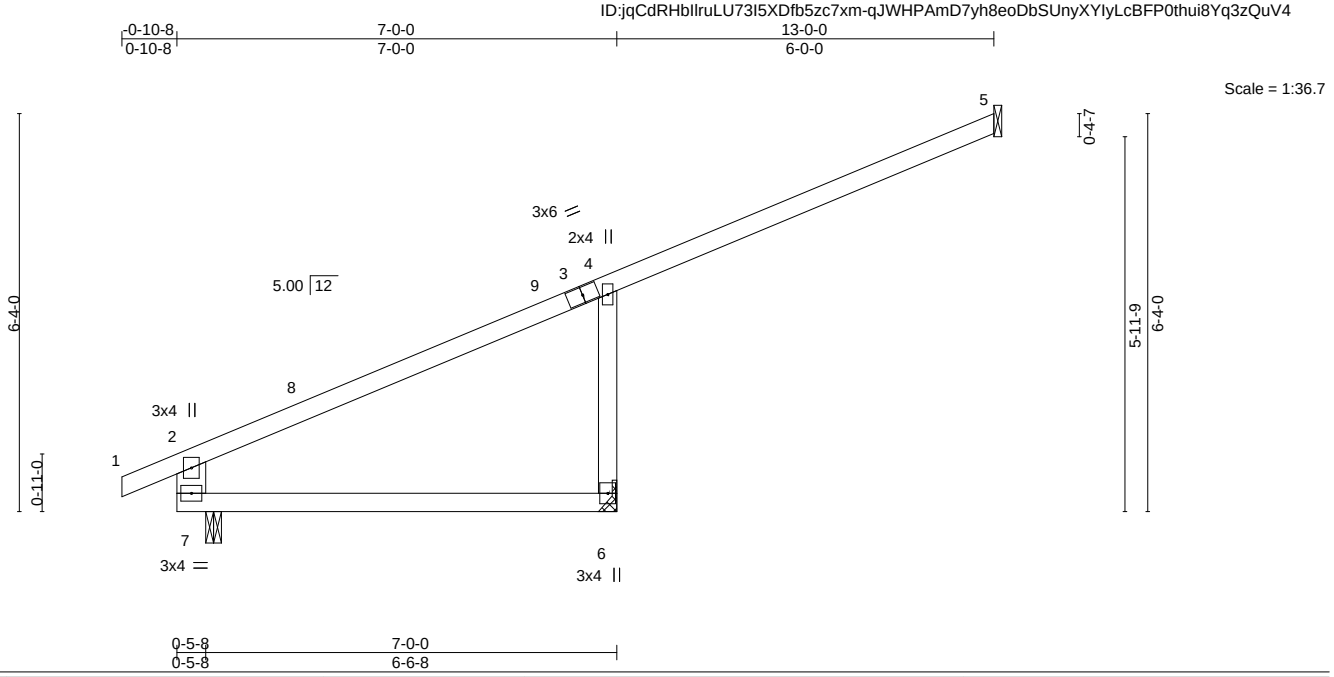
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable studs spaced at 1-4-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5 except (jt=lb) 6=200.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644353
CRAFTROOF130	P02	MONO TRUSS	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:37 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-qJWHPAmD7yh8eoDbSUnyXYIyLcBFP0thui8Yq3zQuV4



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.07	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.14	6-7	>551	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.06	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.15	6-7	>523	240	Weight: 39 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
2-7: 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 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-0, 6=Mechanical, 5=Mechanical
Max Horz 7=218(LC 9)
Max Uplift 7=-53(LC 8), 6=-200(LC 9), 5=-49(LC 8)
Max Grav 7=296(LC 1), 6=526(LC 1), 5=138(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-6=-449/238

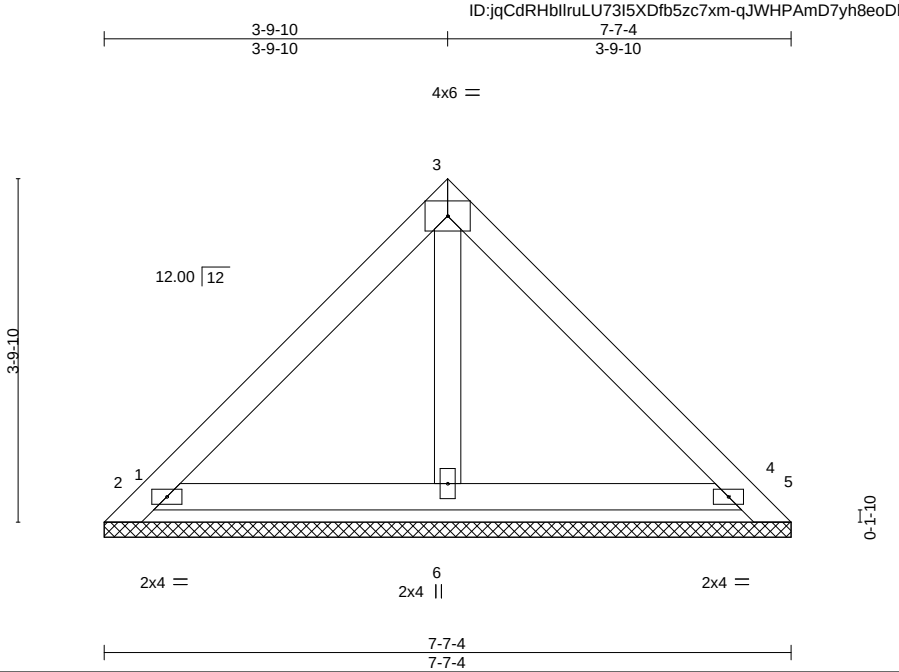
NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5 except (jt=lb) 6=200.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644354
CRAFTROOF130	PB01	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:37 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-qJWHPAmD7yh8eoDbSUnyXYI2vcGgP0Rhui8Yq3zQuV4



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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							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. All bearings 7-7-4.
(lb) - Max Horz 1=91(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-292(LC 19), 5=-237(LC 20), 2=-332(LC 12), 4=-293(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 5, 6 except 1=283(LC 12), 2=469(LC 19), 4=425(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-227/255

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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) 0-2-8 to 3-2-8, Exterior(2) 3-2-8 to 3-9-10, Corner(3) 3-9-10 to 7-0-11, Exterior(2) 7-0-11 to 7-4-12 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 1, 237 lb uplift at joint 5, 332 lb uplift at joint 2 and 293 lb uplift at joint 4.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644355
CRAFTROOF130	PB01G	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:38 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-JV4fdWnruFp?Gyon0CIB4lrDe0Tu8T6r6Mt6MVzQuV3

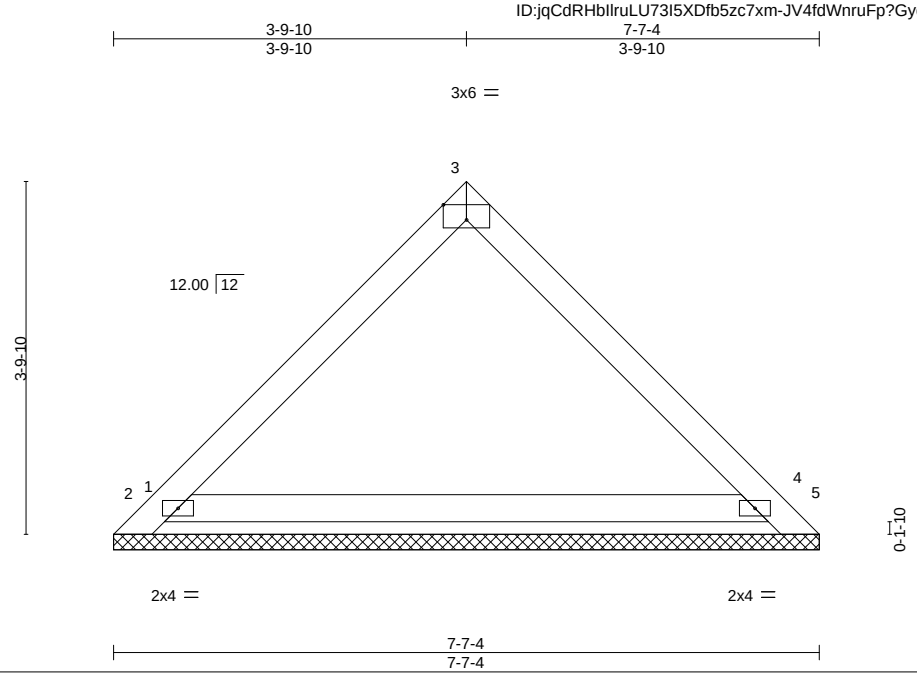


Plate Offsets (X,Y)-- [3:0-3-0,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 26 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-7-4.
(lb) - Max Horz 1=-91(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-294(LC 19), 5=-238(LC 20), 2=-315(LC 12), 4=-265(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 5 except 1=283(LC 12), 2=562(LC 19), 4=506(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-227/256

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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) 0-2-8 to 3-2-8, Exterior(2) 3-2-8 to 3-9-10, Corner(3) 3-9-10 to 7-0-11, Exterior(2) 7-0-11 to 7-4-12 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 294 lb uplift at joint 1, 238 lb uplift at joint 5, 315 lb uplift at joint 2 and 265 lb uplift at joint 4.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644356
CRAFTROOF130	PB02	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:40 2021 Page 1
ID:jqCdRHbIlruLU73l5XDfb5zc7xm-FuCQ2Bo5Qt4jVGyA7cKf9AwX9qF8cLv8afMCROzQuV1

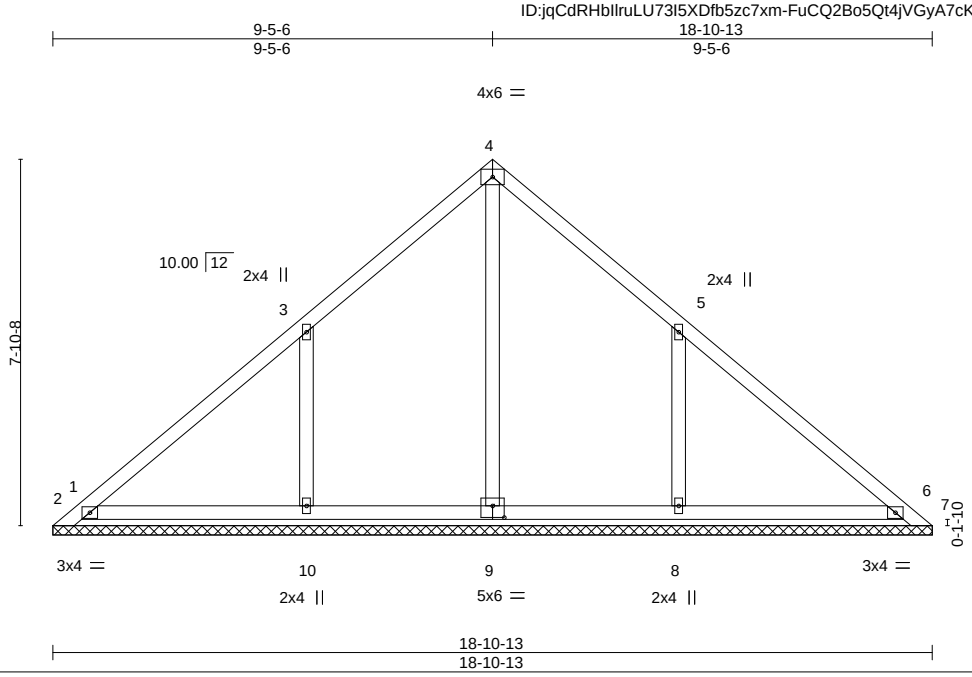


Plate Offsets (X,Y)-- [9:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 85 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. All bearings 18-10-13.
(lb) - Max Horz 1=-194(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-429(LC 19), 7=-326(LC 20), 2=-270(LC 12), 10=-206(LC 12), 8=-205(LC 13), 6=-203(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 7 except 1=306(LC 12), 2=611(LC 19), 9=374(LC 22), 10=481(LC 19), 8=481(LC 20), 6=550(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-287/385
WEBS 3-10=-341/262, 5-8=-341/261

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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) 0-2-12 to 3-2-12, Exterior(2) 3-2-12 to 9-5-6, Corner(3) 9-5-6 to 12-5-6, Exterior(2) 12-5-6 to 18-8-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 429 lb uplift at joint 1, 326 lb uplift at joint 7, 270 lb uplift at joint 2, 206 lb uplift at joint 10, 205 lb uplift at joint 8 and 203 lb uplift at joint 6.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644357
CRAFTROOF130	PB02G	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:42 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-BGKATtqMyUKQla6ZF1N7Eb?xid_44EeQ1zrJVGzQuV?

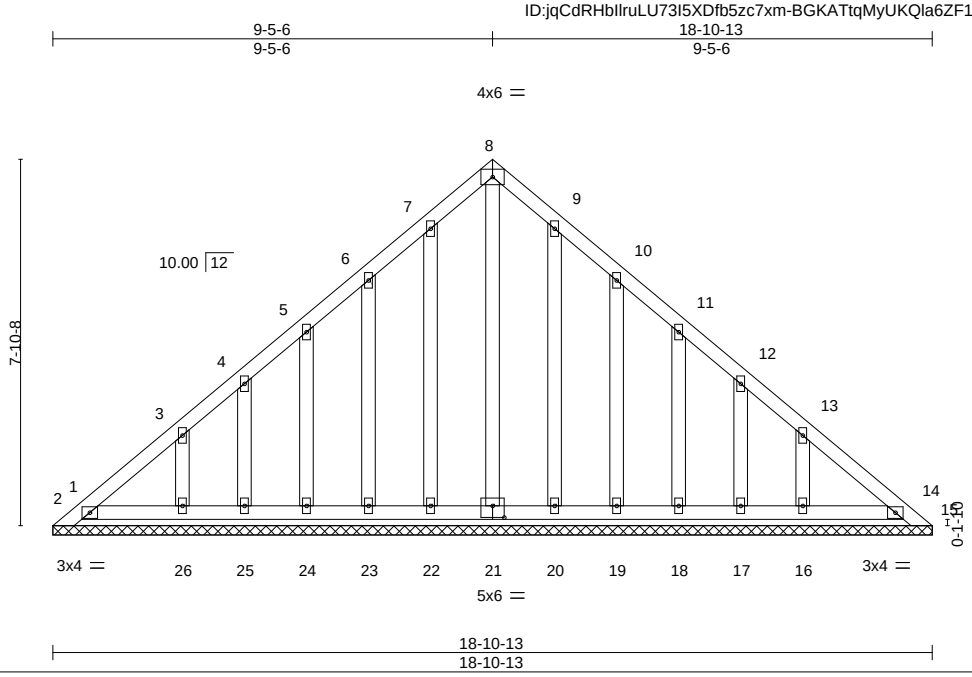


Plate Offsets (X,Y)-- [21:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	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	NO	WB	0.16	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 131 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. All bearings 18-10-13.
(lb) - Max Horz 1=194(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 15, 2, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16 except 1=-172(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 1, 15, 2, 21, 22, 14, 23, 24, 25, 26, 20, 19, 18, 17, 16

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-247/268

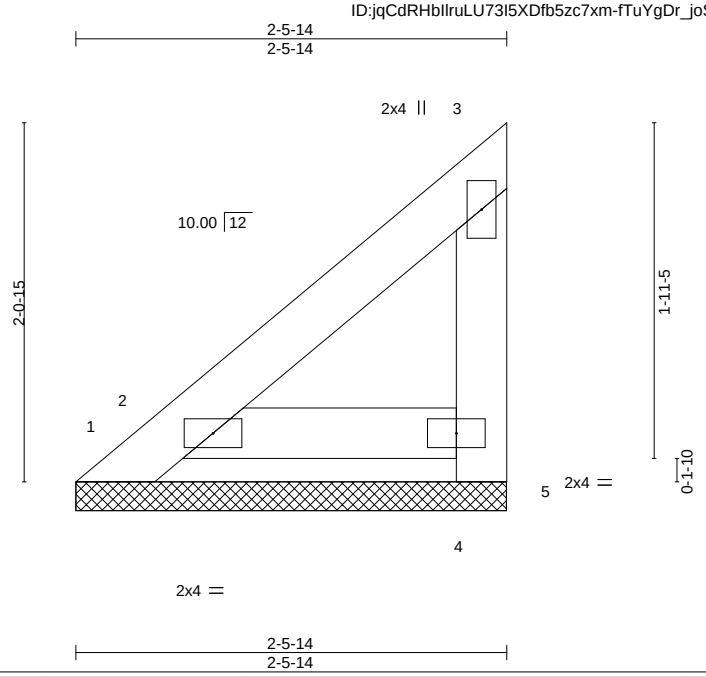
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 3-2-12, Exterior(2) 3-2-12 to 9-5-6, Corner(3) 9-5-6 to 12-5-6, Exterior(2) 12-5-6 to 18-8-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 2, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16 except (jt=lb) 1=172.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644358
CRAFTROOF130	PB03	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:43 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-fTuYgDr_joSHMkhloluMnpY6a1KNpjMaGdbt2jzQuV_



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	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-5-14, 5=2-5-14, 2=2-5-14, 4=2-5-14
Max Horz 1=68(LC 9)
Max Uplift 1=-60(LC 19), 2=-79(LC 12), 4=-18(LC 9)
Max Grav 1=68(LC 9), 2=164(LC 19), 4=68(LC 19)

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

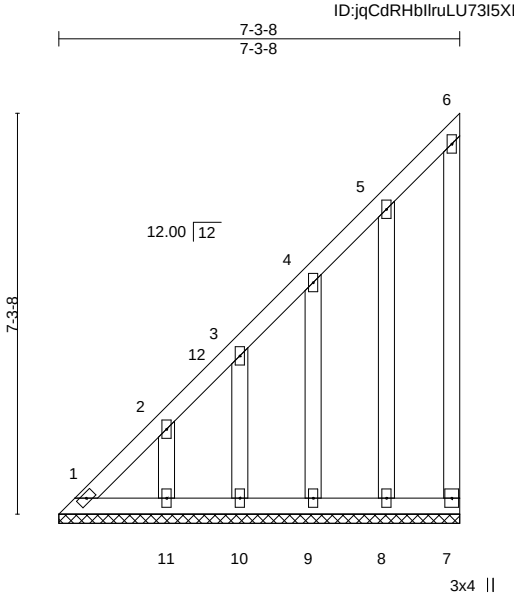
NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 4-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 1, 5, 2, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 4.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644359
CRAFTROOF130	V01	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:43 2021 Page 1
ID:jqCdRHbIlruLU73l5XDfb5zc7xm-fTuYgDr_joSHMkhloluMnpY2f1IPpiiaGdbt2jzQuV_



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 56 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.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 10-0-0 oc bracing.

REACTIONS. All bearings 7-3-8.
(lb) - Max Horz 1=261(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 8, 9, 10, 11
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 8, 9, 10, 11

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-464/428, 2-3=-384/349, 3-4=-311/290

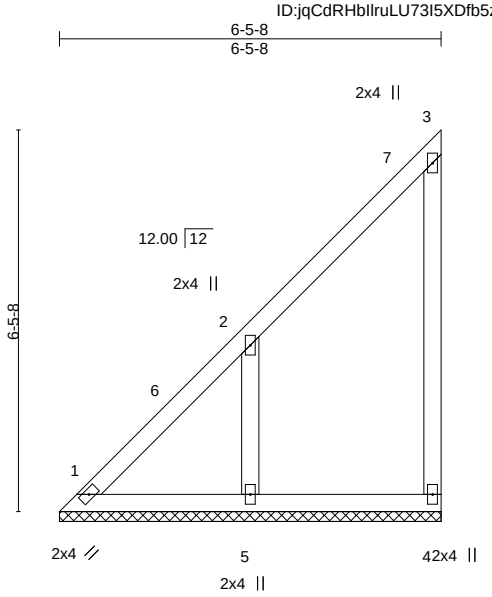
NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-3-8, Interior(1) 3-3-8 to 7-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 8, 9, 10, 11.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644360
CRAFTROOF130	V02	VALLEY	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:44 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-7fRwtZrcU5a8_tGxMSPbJ0587ReoY9OjVHKQZ9zQuUz



Scale = 1:39.0

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	0.67	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	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: 35 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=6-5-8, 4=6-5-8, 5=6-5-8
Max Horz 1=229(LC 9)
Max Uplift 1=-48(LC 8), 4=-72(LC 9), 5=-202(LC 12)
Max Grav 1=167(LC 20), 4=129(LC 19), 5=340(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-402/377
WEBS 2-5=-324/263

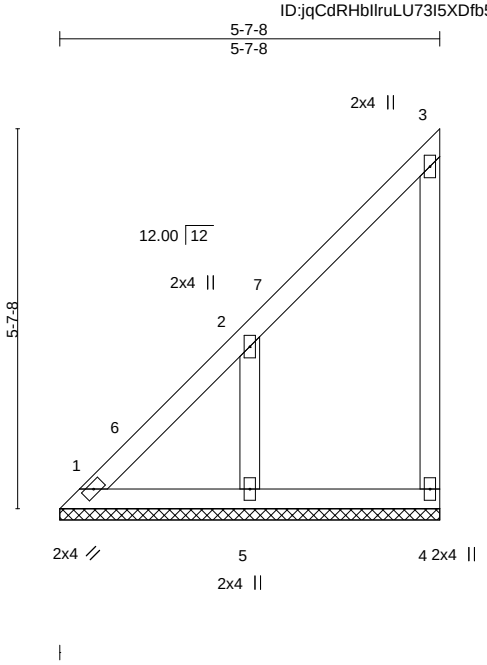
NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-2-12, Interior(1) 3-2-12 to 6-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=202.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644361
CRAFTROOF130	V03	VALLEY	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:44 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-7fRwtZrcU5a8_tGxMSPbJ05B_RfPY9XjVHKQZ9zQuUz



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	0.48	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 30 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 5-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-7-8, 4=5-7-8, 5=5-7-8
Max Horz 1=197(LC 9)
Max Uplift 1=-41(LC 8), 4=-63(LC 9), 5=-174(LC 12)
Max Grav 1=143(LC 20), 4=112(LC 19), 5=292(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-354/328
WEBS 2-5=-281/235

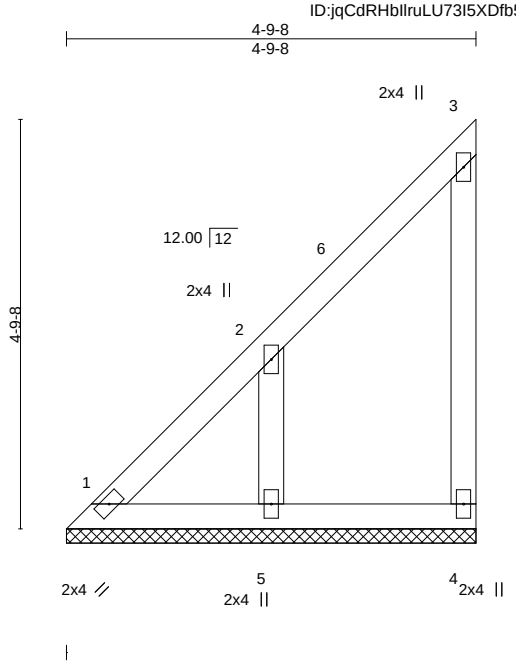
NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 5-5-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=174.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644362
CRAFTROOF130	V04	VALLEY	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:45 2021 Page 1
ID:jqCdRHblIruLU73I5XDfb5zc7xm-br?J5vsEFPi?c1r8wAwqsEdO8r_9Hdwtjx4z5bzQuUy



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 25 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 4-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-9-8, 4=4-9-8, 5=4-9-8
Max Horz 1=165(LC 9)
Max Uplift 1=-35(LC 8), 4=-53(LC 9), 5=-146(LC 12)
Max Grav 1=120(LC 11), 4=95(LC 19), 5=244(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-301/277

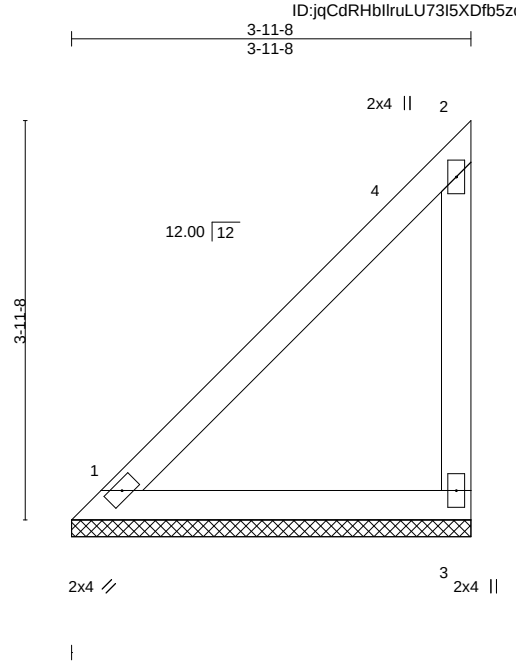
NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 4-7-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=146.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644363
CRAFTROOF130	V05	VALLEY	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:46 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-42ZhIFts?jqsDBPKUtR3ORAWvFIv0450ybpXe2zQuUx



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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	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: 18 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 3-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-11-8, 3=3-11-8
Max Horz 1=133(LC 9)
Max Uplift 3=-64(LC 9)
Max Grav 1=157(LC 20), 3=170(LC 19)

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

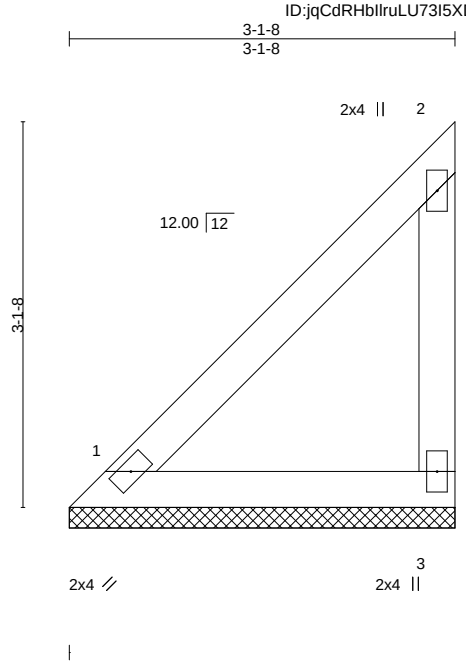
NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 3-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644364
CRAFTROOF130	V06	VALLEY	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:46 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-42ZhIFts?jqsDBPKUtR3ORAZzFJa0450ybpXe2zQuUx



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	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: 14 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 3-1-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-1-8, 3=3-1-8
Max Horz 1=101(LC 11)
Max Uplift 3=-48(LC 9)
Max Grav 1=119(LC 20), 3=129(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 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.

April 14,2021

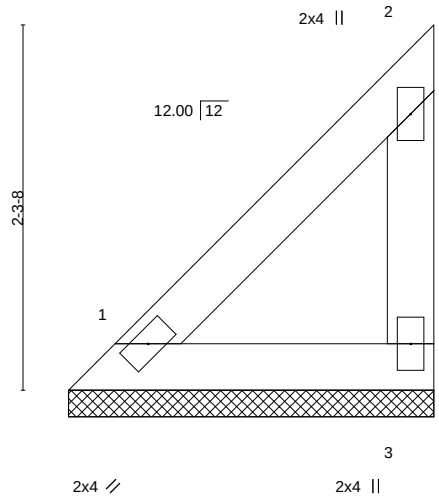
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644365
CRAFTROOF130	V07	VALLEY	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:47 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-YE73WbuUm0yjrL_W1byIxejntehylXL9BFZ4AUzQuUw

2-3-8
2-3-8

Scale = 1:14.5



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 10 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 2-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-3-8, 3=2-3-8
Max Horz 1=69(LC 9)
Max Uplift 3=-33(LC 9)
Max Grav 1=81(LC 20), 3=88(LC 19)

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

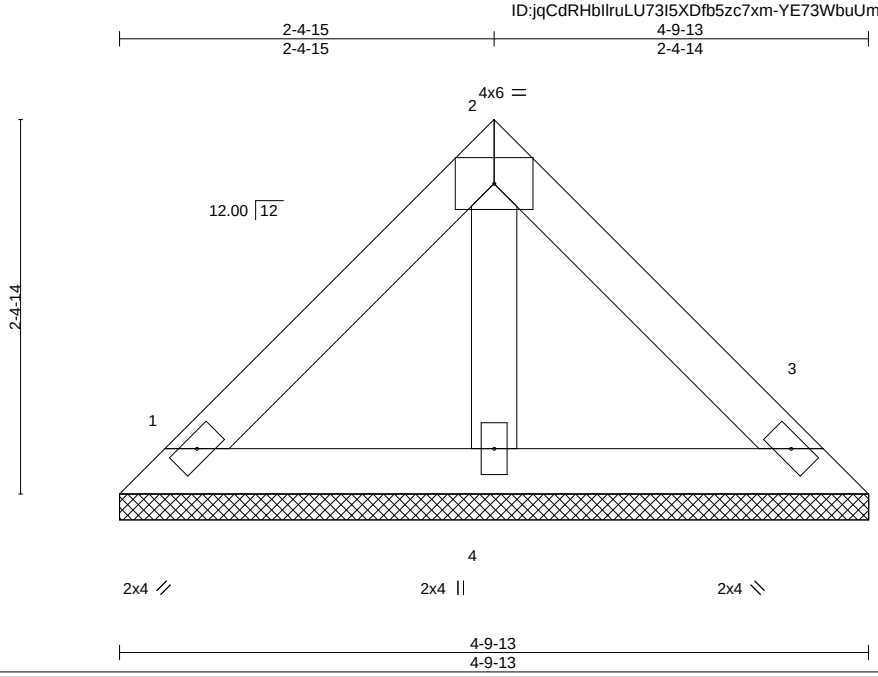
NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644366
CRAFTROOF130	V08	VALLEY	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:47 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-YE73WbuUm0yjrL_W1byIxejmgegilX49BFZ4AUzQuUw



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 19 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-9-13, 3=4-9-13, 4=4-9-13
Max Horz 1=-52(LC 8)
Max Uplift 1=-25(LC 13), 3=-25(LC 13)
Max Grav 1=98(LC 1), 3=98(LC 1), 4=132(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 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.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644367
CRAFTROOF130	V09	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:48 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-0QhRjwv7XK4aTVZibITXUsFse2w1Uy5JQvIdiwzQuUv

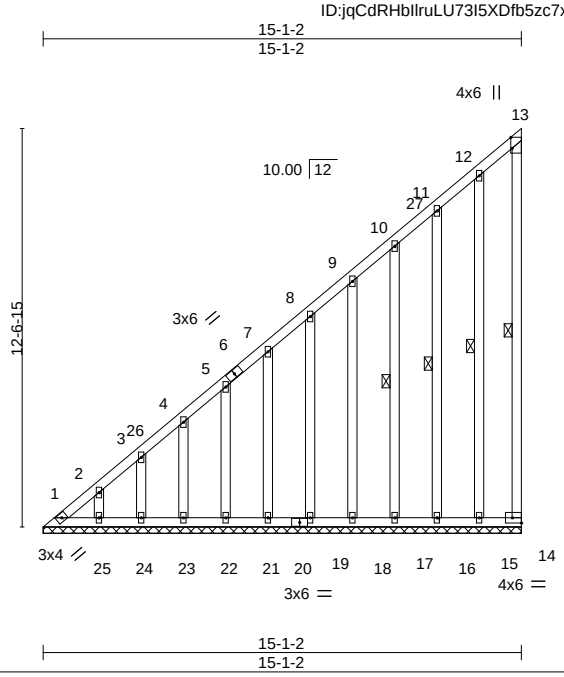


Plate Offsets (X,Y)-- [13:0-4-2,Edge], [14:Edge,0-2-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.00	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 157 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 13-14, 12-15, 11-16, 10-17

REACTIONS. All bearings 15-1-2.
(lb) - Max Horz 1=466(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 16, 17, 18, 19, 21, 22, 23, 24, 25 except 14=-169(LC 11), 15=-108(LC 12), 1=-156(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25 except 1=299(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-666/670, 2-3=-618/620, 3-4=-573/576, 4-5=-527/531, 5-7=-481/486, 7-8=-436/440, 8-9=-390/395, 9-10=-344/350, 10-11=-301/308, 11-12=-249/263
WEBS 12-15=-257/210

NOTES-
1) Wind: ASCE 7-10; Vult=130mph 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) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 14-11-6 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
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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 17, 18, 19, 21, 22, 23, 24, 25 except (jt=lb) 14=169, 15=108, 1=156.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644368
CRAFTROOF130	V10	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:49 2021 Page 1
ID:jqCdRHbIlruLU73l5XDfb5zc7xm-UdFpxGvIeCR4f8v9??m03ozKSFXDN6SeZ2BENzQuUu

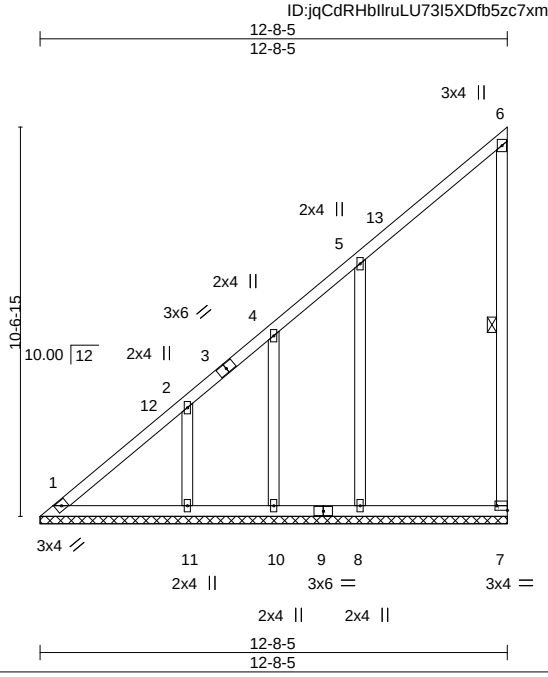


Plate Offsets (X,Y)-- [7:Edge,0-1-8]

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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.30	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 79 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.3
BOT CHORD	2x4 SP No.3
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 10-0-0 oc bracing.
WEBS	1 Row at midpt 6-7

REACTIONS. All bearings 12-8-5.
(lb) - Max Horz 1=389(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 7, 1, 10 except 8=-168(LC 12), 11=-162(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 7, 1, 10 except 8=456(LC 19), 11=333(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-545/549, 2-4=-416/402, 4-5=-372/381
WEBS 5-8=-336/231, 2-11=-272/191

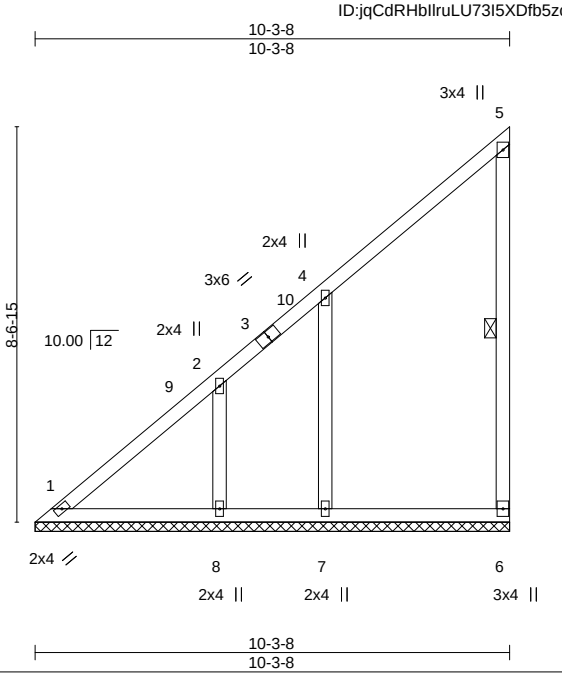
NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 12-6-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 1, 10 except (jt=lb) 8=168, 11=162.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644369
CRAFTROOF130	V11	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:50 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-yppC8cwN3xKIioj5jjW?ZHK7Pseoys3ctDknpzQuUt



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 57 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 5-6

REACTIONS. All bearings 10-3-8.
(lb) - Max Horz 1=312(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 7 except 8=-148(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 7=371(LC 19), 8=263(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-452/439, 2-4=-350/331
WEBS 4-7=-285/216

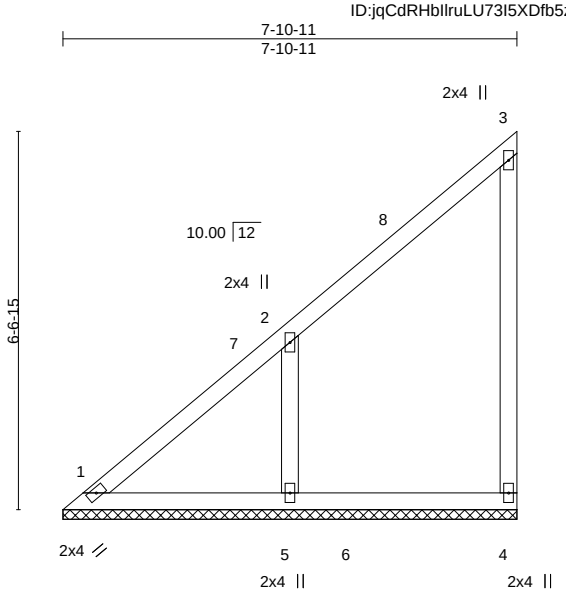
NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 10-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 7 except (jt=lb) 8=148.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644370
CRAFTROOF130	V12	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:50 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-yppC8cwN3xKIioj5jjW?ZHKCmsgfytxctDknpzQuUt



Scale = 1:40.1

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	0.46	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 39 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.3
BOT CHORD	2x4 SP No.3
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=7-10-11, 4=7-10-11, 5=7-10-11
Max Horz 1=235(LC 9)
Max Uplift 1=-28(LC 8), 4=-63(LC 9), 5=-181(LC 12)
Max Grav 1=166(LC 20), 4=201(LC 19), 5=430(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-361/344
WEBS 2-5=-348/251

NOTES-

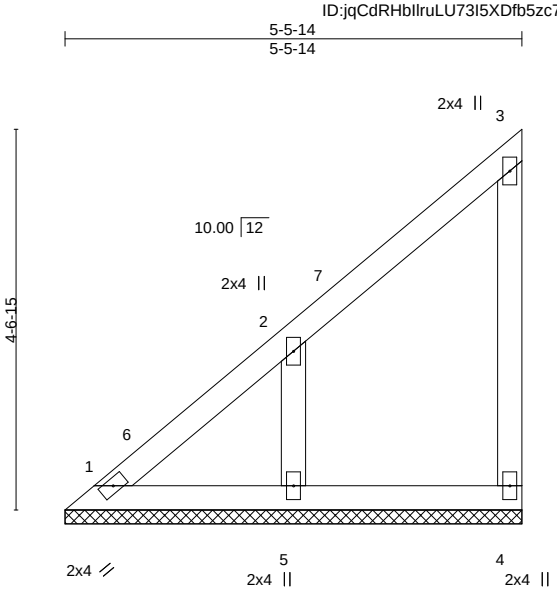
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 7-8-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=181.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644371
CRAFTROOF130	V13	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:51 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-Q?MaLyx?qFS9KyIHGQ1E5UtQ6G1AhLTl6tXIJFzQuUs



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 27 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 5-5-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-5-14, 4=5-5-14, 5=5-5-14
Max Horz 1=158(LC 9)
Max Uplift 1=-21(LC 8), 4=-42(LC 9), 5=-131(LC 12)
Max Grav 1=111(LC 20), 4=101(LC 19), 5=272(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-264/247

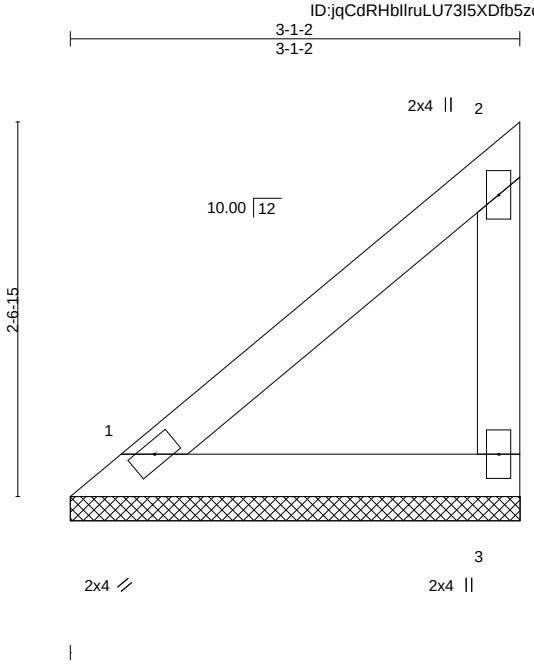
NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-4-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=131.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644372
CRAFTROOF130	V14	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:51 2021 Page 1
ID:jqCdRHblIruLU73I5XDfb5zc7xm-Q?MaLyx?qFS9KyIHGQ1E5UtRVG1uhLKl6tXIJFzQuUs



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	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: 13 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 3-1-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-1-2, 3=3-1-2
Max Horz 1=81(LC 9)
Max Uplift 1=-2(LC 12), 3=-37(LC 12)
Max Grav 1=104(LC 20), 3=118(LC 19)

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

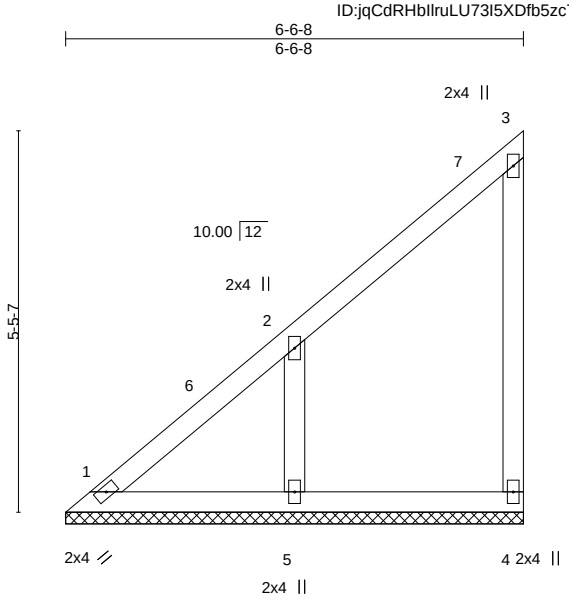
NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644373
CRAFTROOF130	V15	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:52 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-uCwyZlydbZa0y6tUq8YTeiQYVfMeQnavLXGrrhzQuUr



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 32 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=6-6-8, 4=6-6-8, 5=6-6-8
Max Horz 1=192(LC 9)
Max Uplift 1=-25(LC 8), 4=-50(LC 9), 5=-159(LC 12)
Max Grav 1=136(LC 20), 4=121(LC 19), 5=330(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-311/295
WEBS 2-5=-287/217

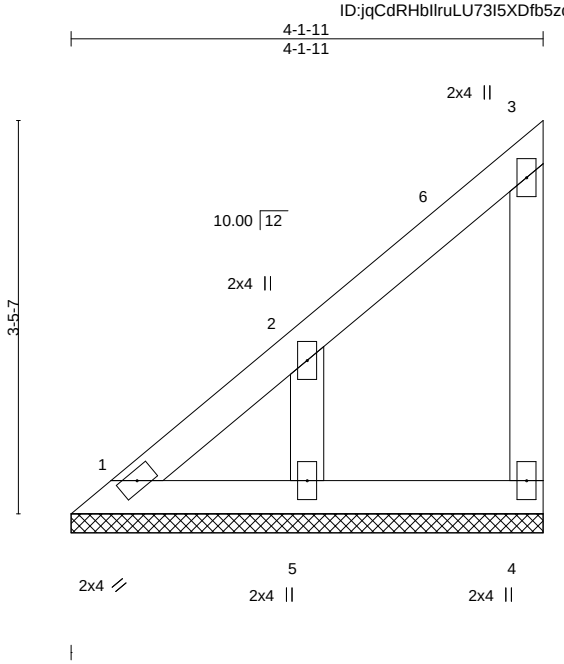
NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-3-4, Interior(1) 3-3-4 to 6-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=159.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644374
CRAFTROOF130	V16	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:52 2021 Page 1
ID:jqCdRHblIruLU73I5XDfb5zc7xm-uCwyZIydbZa0y6tUq8YTeiQdBfO9QoxvLXGrrhzQuUr



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	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 19 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 4-1-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-1-11, 4=4-1-11, 5=4-1-11
Max Horz 1=115(LC 9)
Max Uplift 1=-16(LC 8), 4=-31(LC 9), 5=-95(LC 12)
Max Grav 1=80(LC 20), 4=75(LC 19), 5=198(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 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) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 3-11-15 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
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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 5.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644375
CRAFTROOF130	V17	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:53 2021 Page 1
ID:jqCdRHblIruLU73I5XDfb5zc7xm-NOUKmeyFMsitZGSgOr3iBvymI3iZ9Ek2ZB0ON8zQuUq

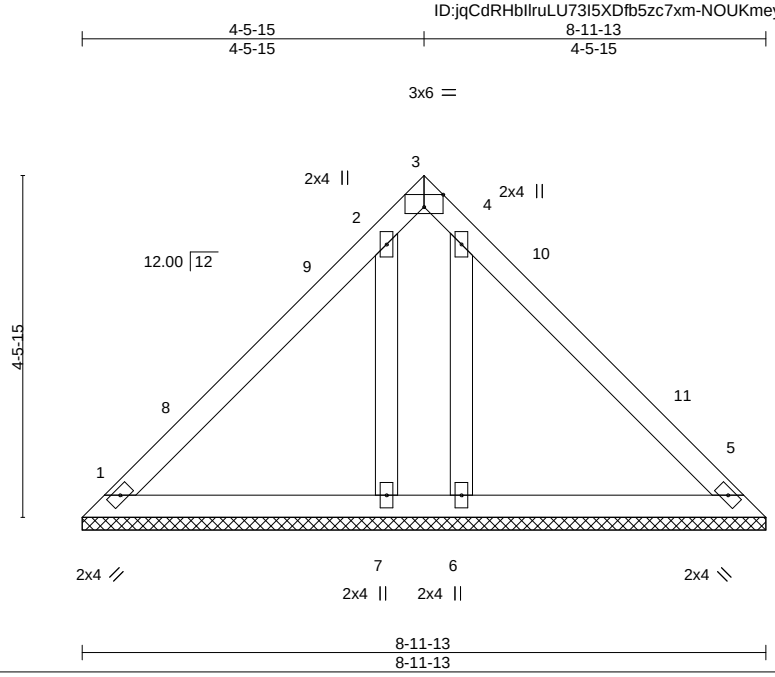


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 41 lb	FT = 20%

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

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

REACTIONS. All bearings 8-11-13.
(lb) - Max Horz 1=-104(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 6=-173(LC 13), 7=-184(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=323(LC 20), 7=334(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-6=-254/188, 2-7=-265/198

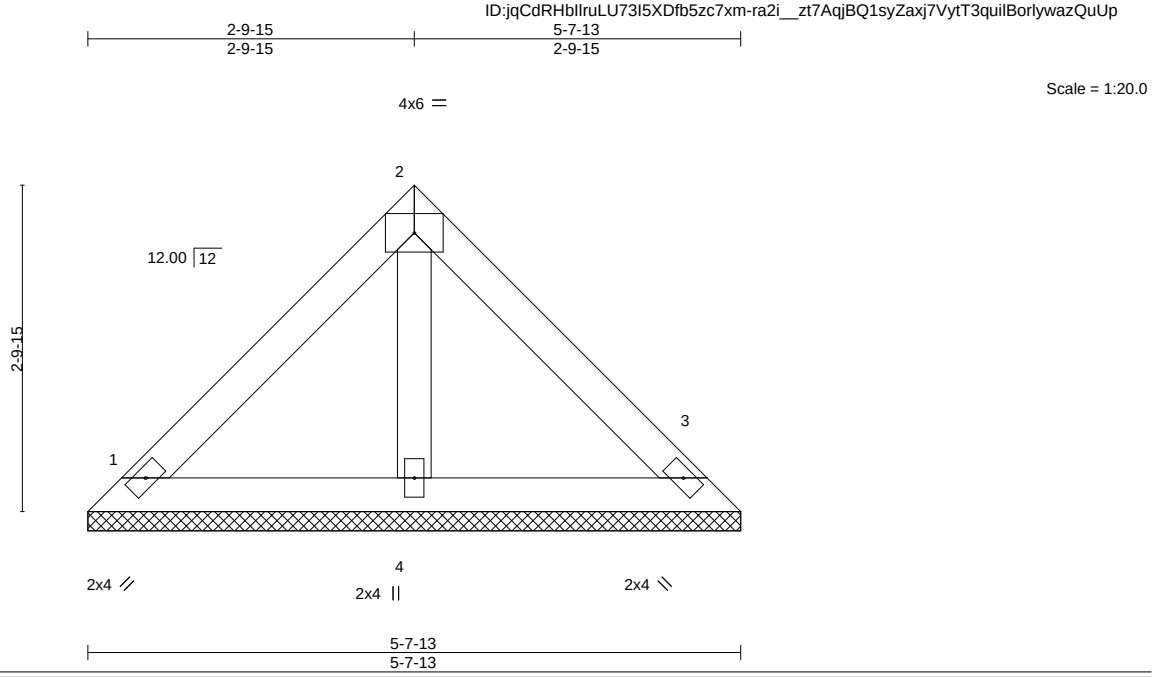
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 4-5-15, Exterior(2) 4-5-15 to 7-5-15, Interior(1) 7-5-15 to 8-7-10 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) 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 173 lb uplift at joint 6 and 184 lb uplift at joint 7.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644376
CRAFTROOF130	V18	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:54 2021 Page 1
ID:jqCdRHbIIruLU73I5XDfb5zc7xm-ra2i__zt7AqjBQ1syZaxj7VytT3quilBorlywazQuUp



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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	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
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-7-13, 3=5-7-13, 4=5-7-13
Max Horz 1=-62(LC 8)
Max Uplift 1=-30(LC 13), 3=-30(LC 13)
Max Grav 1=118(LC 1), 3=118(LC 1), 4=159(LC 1)

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

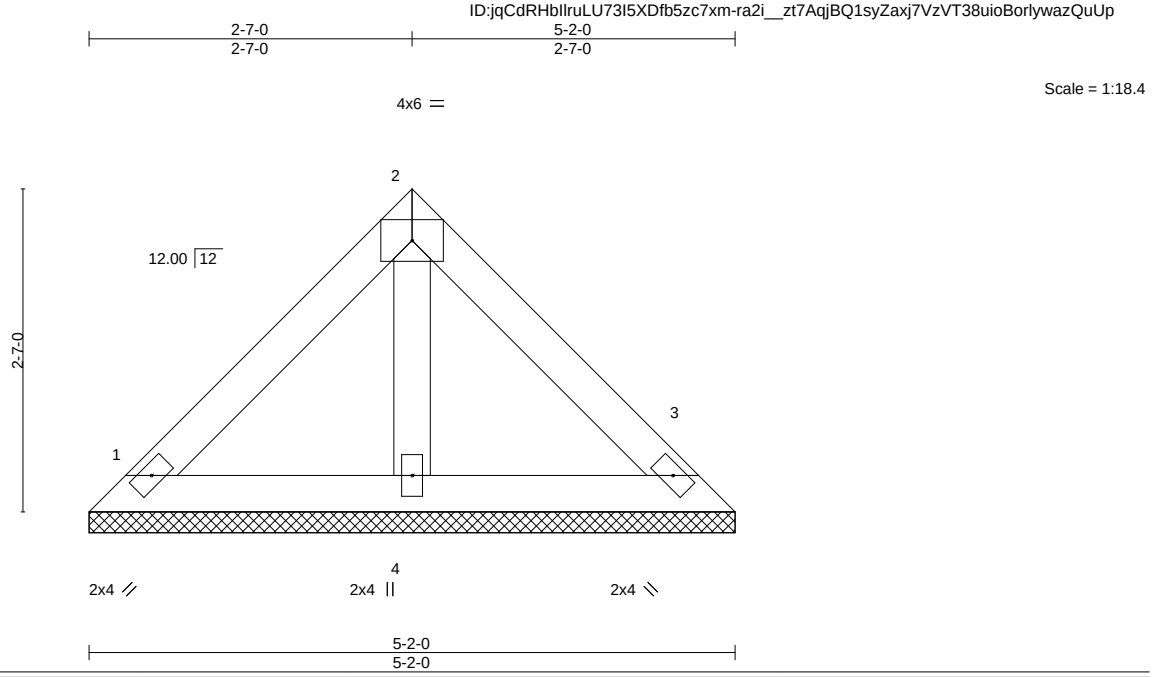
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right 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 30 lb uplift at joint 1 and 30 lb uplift at joint 3.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644377
CRAFTROOF130	V19	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:54 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-ra2i__zt7AqjBQ1syZaxj7VzVT38uioBorlywazQuUp



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)	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	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 20 lb	FT = 20%

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

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

REACTIONS. (size) 1=5-2-0, 3=5-2-0, 4=5-2-0
Max Horz 1=56(LC 11)
Max Uplift 1=-27(LC 13), 3=-27(LC 13)
Max Grav 1=107(LC 1), 3=107(LC 1), 4=144(LC 1)

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

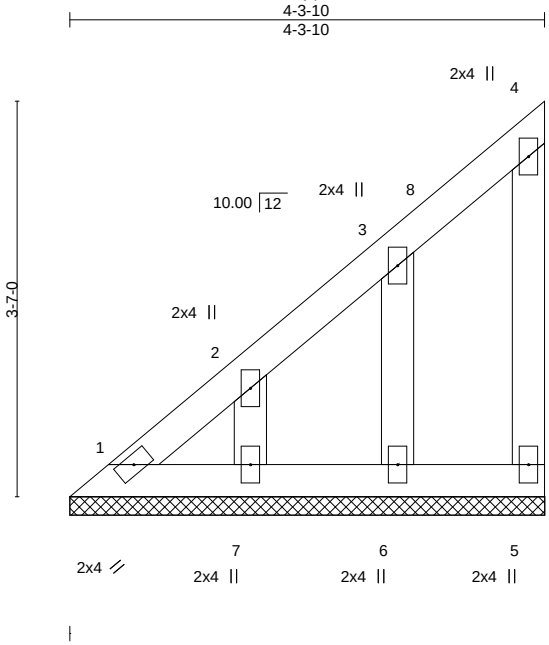
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right 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 27 lb uplift at joint 1 and 27 lb uplift at joint 3.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644378
CRAFTROOF130	V20	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:55 2021 Page 1
ID:jqCdRHbIlruLU73I5XDfb5zc7xm-Jmc5BK_WuUzapac3VG6AGK29DtQWd9wL1VVVS0zQuUo



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 22 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 4-3-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-3-10.
(lb) - Max Horz 1=120(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6, 7

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

NOTES-

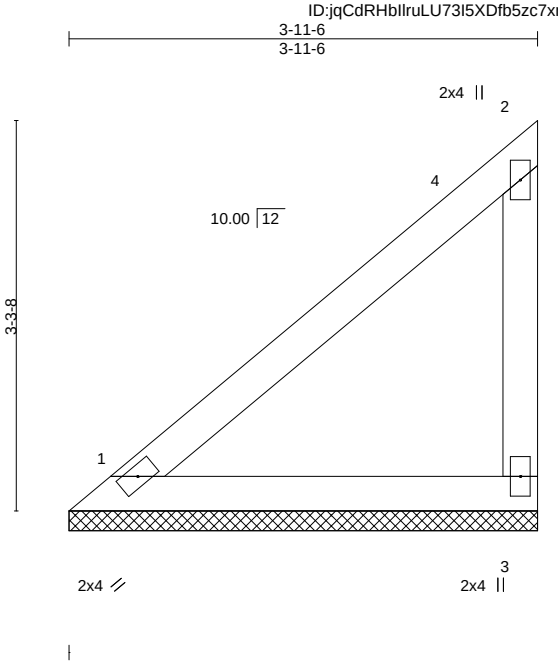
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-1-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6, 7.

April 14,2021

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

Job	Truss	Truss Type	Qty	Ply	McKee-Winston-Craftsman-Lot 1010 Carriage Glen@ Anderson Creek-Roof-130 I45644379
CRAFTROOF130	V21	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:51:56 2021 Page 1
ID:jqCdRHbIlruLU73l5XDfb5zc7xm-nzATPg?8fn5RQjAF3zdPoYaGaHjOMcaUF9E3_TzQuUn



Scale = 1:19.4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 17 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 3-11-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-11-6, 3=3-11-6
Max Horz 1=109(LC 9)
Max Uplift 1=-2(LC 12), 3=-50(LC 12)
Max Grav 1=139(LC 20), 3=158(LC 19)

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

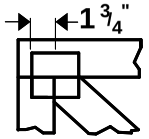
NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 3-9-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

April 14,2021

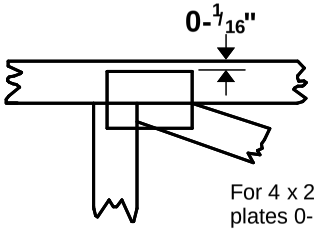
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

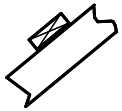
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

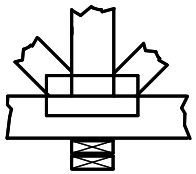
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

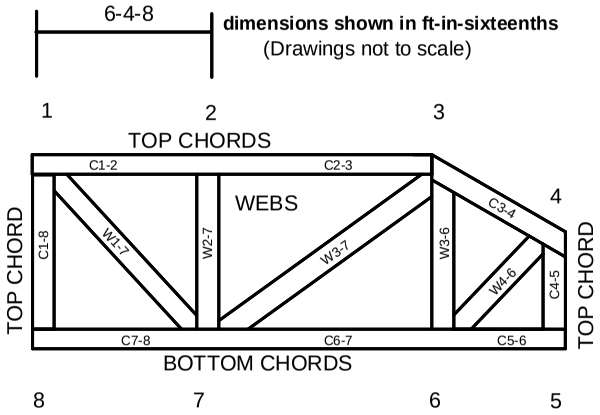


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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 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.