

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 21437A
140.1582.A.10x25cvp

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I37998082 thru I37998129

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



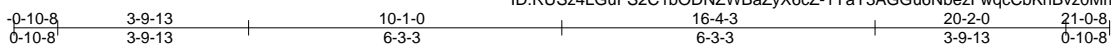
August 1, 2019

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 21437A	Truss B1	Truss Type COMMON	Qty 1	Ply 1	140.1582.A.10x25cvp	137998082
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84 Components (Dunn), Dunn, NC - 28334, 8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:06:44 2019 Page 1



ID:RUSz4LGuFS2C1bODNZWbaZyX6cZ-1YaY3AGGu6NbezFwqcCbKnBvz0Mm1KgqG0F0?nysW2f

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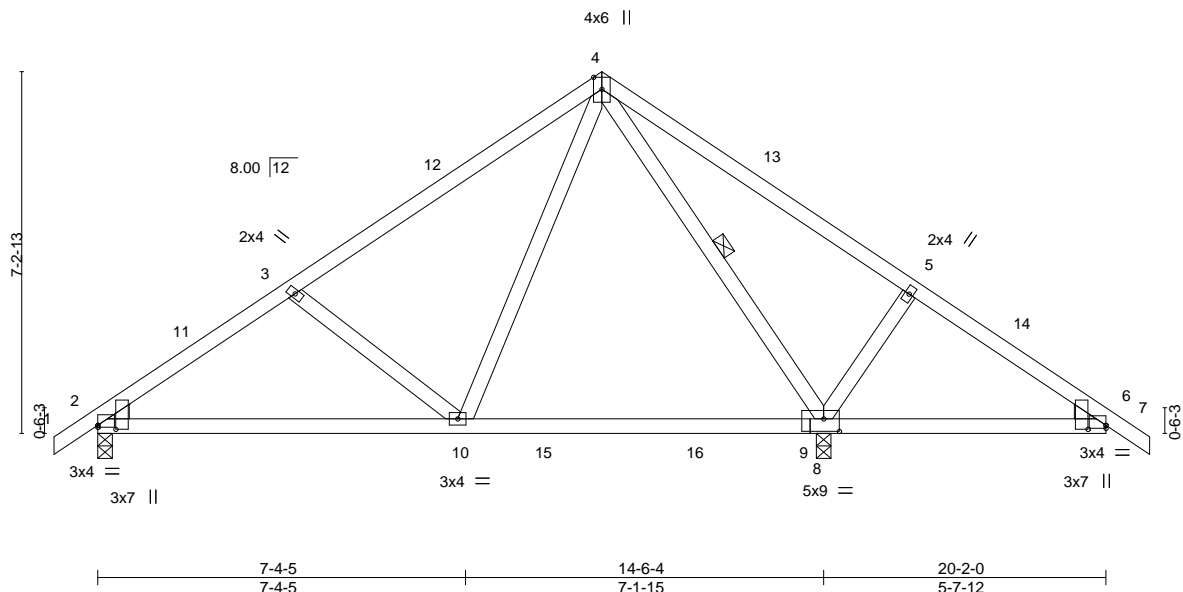


Plate Offsets (X,Y)--	[2:0-0-0,0-0-8], [2:0-0-15,0-4-5], [6:0-0-15,0-4-5], [6:0-0-0,0-0-12], [9:0-0-0,0-1-12], [9:0-3-12,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	0.11	2-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.14	8-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.01	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 104 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-8

REACTIONS. (lb/size) 2=528/0-3-8, 8=1188/0-3-8
Max Horz 2=181(LC 11)
Max Uplift 2=-89(LC 12), 8=-145(LC 13)
Max Grav 2=559(LC 23), 8=1188(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-653/367, 3-4=-451/362, 4-5=-224/575, 5-6=-253/377
BOT CHORD 2-10=-240/611, 6-8=-229/253
WEBS 4-10=-405/436, 4-8=-933/519, 5-8=-335/223, 3-10=-316/221

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; 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 10-1-0, Exterior(2) 10-1-0 to 13-1-0, Interior(1) 13-1-0 to 21-0-8 zone; cantilever right exposed ; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=145.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



Job 21437A	Truss BE	Truss Type COMMON STRUCTURAL GA	Qty 1	Ply 1	140.1582.A.10x25cvp	137998083
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84 Components (Dunn),

Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:06:45 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-Vk8xHWHufPVSF6q7NKjqs?k4bQI?mgV_Vg?ZXDysW2e



Scale: 1/4"=1'

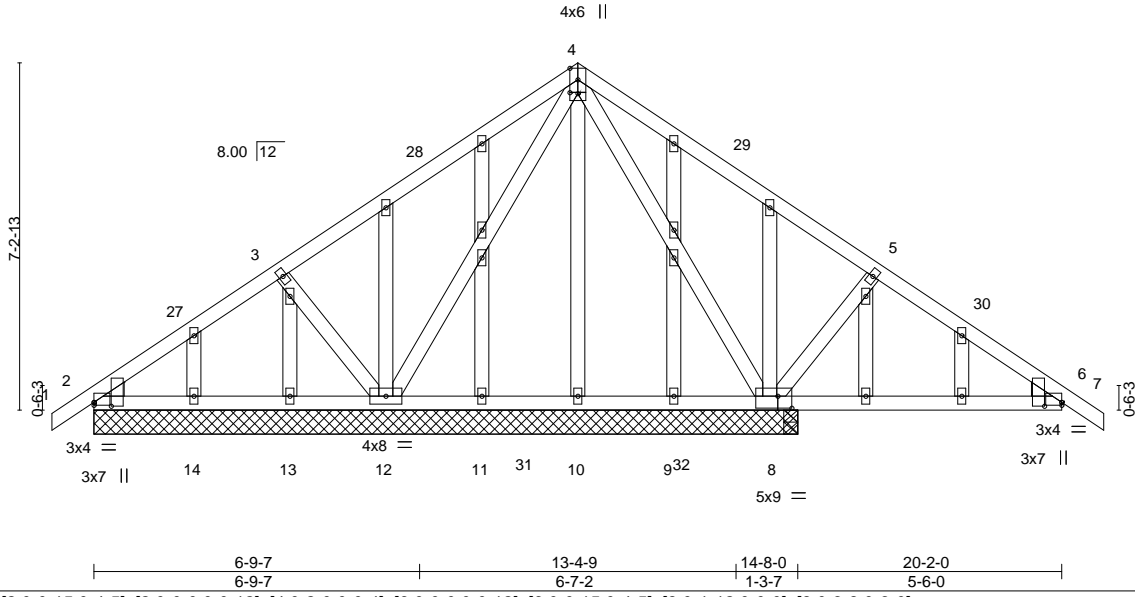


Plate Offsets (X,Y)--	[2:0-0-15,0-4-5], [2:0-0-0,0-0-12], [4:0-2-0,0-0-4], [6:0-0-0,0-0-12], [6:0-0-15,0-4-5], [8:0-1-12,0-0-0], [8:0-3-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.01	8-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	0.01	8-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 151 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS. All bearings 14-8-0.
 (lb) - Max Horz 2=181(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 9 except 8=-172(LC 13), 12=-190(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 11, 13, 14, 9 except 8=966(LC 1), 8=966(LC 1), 12=438(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-59/285, 4-5=-255/607, 5-6=-272/386
 BOT CHORD 6-8=-236/267
 WEBS 4-8=-687/324, 5-8=-340/222, 3-12=-330/225

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; 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 10-1-0, Exterior(2) 10-1-0 to 13-1-0, Interior(1) 13-1-0 to 21-0-8 zone; cantilever right exposed ; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9 except (jt=lb) 8=172, 12=190.



August 1, 2019

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 21437A	Truss BG	Truss Type COMMON GIRDER	Qty 1	Ply 2	140.1582.A.10x25cvp	I37998084
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ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-wDbLc?n808WX8UArAyQOMwdTYQmvr3Qu8fEskNysVqX
8.310 s Jul 16 2019 MiTek Industries, Inc. Wed Jul 31 15:21:48 2019 Page 1

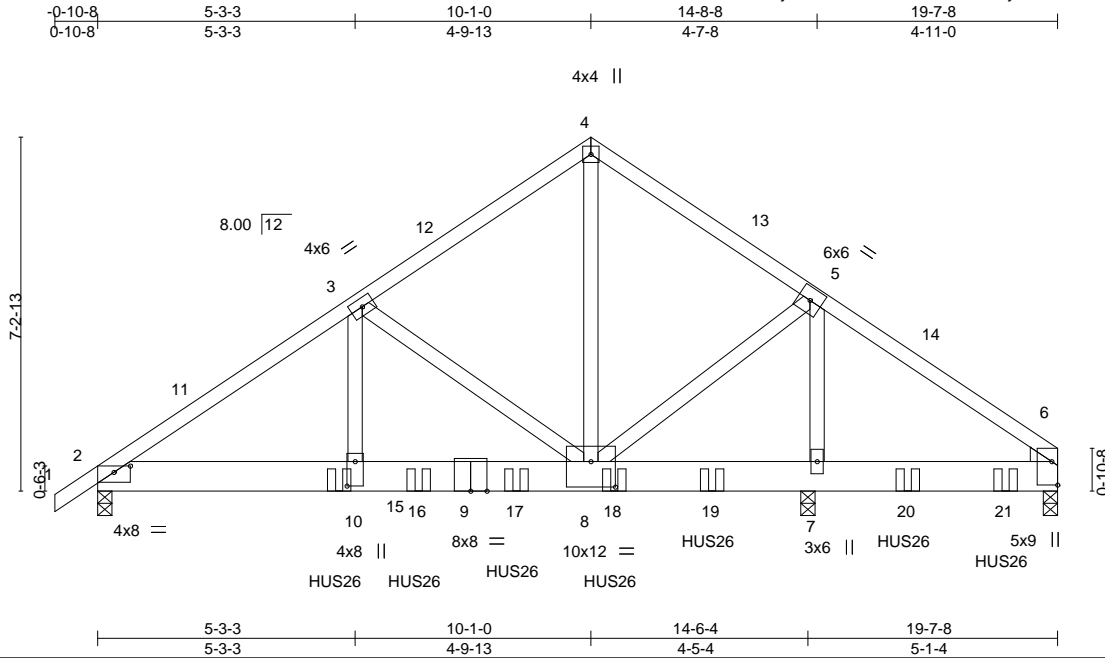


Plate Offsets (X,Y)--	[2:0-4-0,0-1-9], [6:Edge,0-1-7], [6:0-0-15,0-4-15], [6:0-0-8,0-0-12], [8:0-6-0,0-6-4], [10:0-6-0,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 1.00	Vert(LL) -0.07 8-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.94	Vert(CT) -0.14 8-10 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.02 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 267 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-13 oc purlins.
BOT CHORD 2x8 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=3653/0-3-8 (min. 0-2-2), 7=8148/0-3-8 (req. 0-4-13), 6=414/0-3-8 (min. 0-1-8)
 Max Horz 2=176(LC 9)
 Max Uplift 2=535(LC 12), 7=995(LC 13), 6=122(LC 8)
 Max Grav 2=3653(LC 1), 7=8148(LC 1), 6=520(LC 26)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-11=-6187/844, 3-11=-6094/865, 3-12=-3548/424, 4-12=-3465/444, 4-13=-3465/452,
 5-13=-3553/424, 5-14=-137/973, 6-14=-161/920
 BOT CHORD 2-15=-743/5010, 10-15=-743/5010, 10-16=-743/5010, 9-16=-743/5010, 9-17=-743/5010,
 8-17=-743/5010, 8-18=-729/175, 18-19=-729/175, 7-19=-729/175, 7-20=-729/175,
 20-21=-729/175, 6-21=-729/175
 WEBS 3-10=-476/2818, 3-8=-2644/615, 4-8=-394/3601, 5-8=-506/4564, 5-7=-5618/708

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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 10-1-0, Exterior(2) 10-1-0 to 13-1-0, Interior(1) 13-1-0 to 19-5-12 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - WARNING: Required bearing size at joint(s) 7 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 995 lb uplift at joint 7.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 4-0-0 oc max. starting at 4-11-4



Contract for page 2 to 18-6-12 to connect truss(es) to back face of bottom chord.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 21437A	Truss BG	Truss Type COMMON GIRDER	Qty 1	Ply 2	140.1582.A.10x25cvp Job Reference (optional)	I37998084
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8.310 s Jul 16 2019 MiTek Industries, Inc. Wed Jul 31 15:21:48 2019 Page 2
 ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-wDbLc?n808WX8UArAyQOMwdTYQmvr3Qu8fEskNysVqX

NOTES-

12) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 2-6=-20

Concentrated Loads (lb)

Vert: 15=-814(B) 16=-1960(B) 17=-1960(B) 18=-1960(B) 19=-1960(B) 20=-976(B) 21=-977(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job 21437A	Truss H2	Truss Type HIP	Qty 1	Ply 1	140.1582.A.10x25cvp	137998085
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:06:54 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-kTBK9bOYXAeAqV0rPjNxxuce_2e9Nm8JZZhYMCysW2V



Scale = 1:88.0

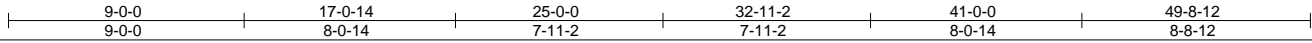
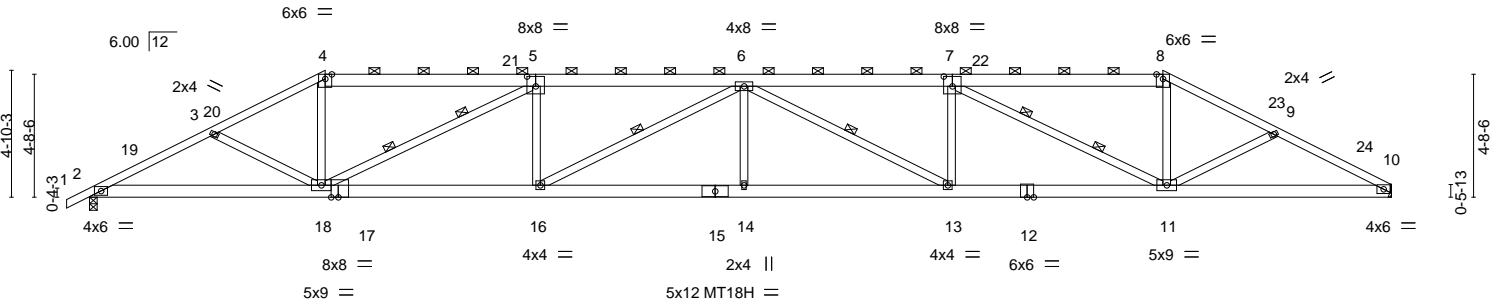


Plate Offsets (X, Y)-- [5:0-4-0,0-4-8], [7:0-4-0,0-4-8], [17:0-3-4,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.45	14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.97	Vert(CT)	-0.89	14	>665	180	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.21	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 316 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-4,8-10: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except
BOT CHORD 2x6 SP No.2 *Except* 12-15,15-17: 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-16, 6-13 2 Rows at 1/3 pts 5-18, 7-11

REACTIONS. (lb/size) 10=1980/Mechanical, 2=2043/0-3-8
 Max Horz 2=89(LC 16)
 Max Uplift 10=220(LC 8), 2=225(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3995/661, 3-4=-3777/578, 4-5=-3324/550, 5-6=-5277/837, 6-7=-5250/832,
 7-8=-3275/539, 8-9=-3721/571, 9-10=-3893/644
 BOT CHORD 2-18=-551/3510, 16-18=-792/5274, 14-16=-870/5853, 13-14=-870/5853, 11-13=-746/5247,
 10-11=-522/3392
 WEBS 4-18=-110/1288, 5-18=-2267/456, 5-16=0/539, 6-16=-716/138, 6-14=0/324,
 6-13=-744/141, 7-13=0/551, 7-11=-2291/457, 8-11=-112/1264

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-1-3, Interior(1) 4-1-3 to 9-0-0, Exterior(2) 9-0-0 to 16-0-6, Interior(1) 16-0-6 to 41-0-0, Exterior(2) 41-0-0 to 48-0-6, Interior(1) 48-0-6 to 49-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=220.
- 9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



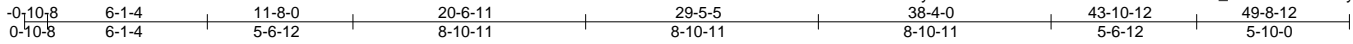
818 Soundside Road
 Edenton, NC 27932

Job 21437A	Truss H3	Truss Type HIP	Qty 1	Ply 1	140.1582.A.10x25cvp	137998086
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:06:55 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-CfliNxAUUm1Sfb2zQuAG68k5R_G6CFS0DQ5ueysW2U



Scale = 1:88.0

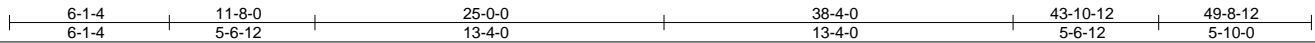
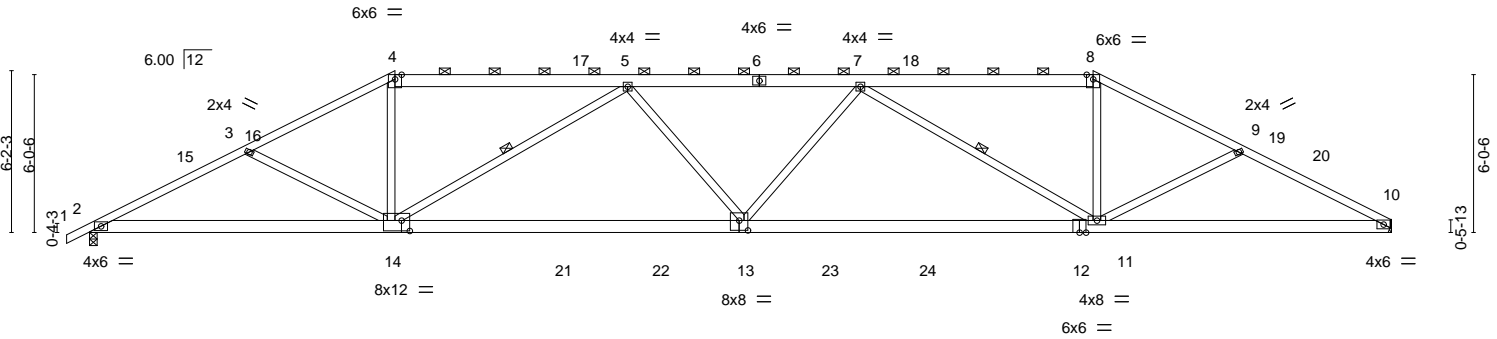


Plate Offsets (X,Y)-- [13:0-4-0,0-4-8], [14:0-3-12,0-4-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.80	Vert(LL)	-0.34	13-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.98	Vert(CT)	-0.70	11-13	>845		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.89	Horz(CT)	0.17	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 303 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-6,6-8: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-2-8 max.): 4-8.
BOT CHORD 2x6 SP No.2 *Except* 12-13,13-14: 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-14, 7-11

REACTIONS. (lb/size) 10=1980/Mechanical, 2=2043/0-3-8
Max Horz 2=111(LC 12)
Max Uplift 10=-172(LC 8), 2=-177(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3927/661, 3-4=-3580/555, 4-5=-3131/540, 5-7=-4411/673, 7-8=-3096/532,
8-9=-3542/546, 9-10=-3851/649
BOT CHORD 2-14=-544/3442, 13-14=-579/4310, 11-13=-548/4298, 10-11=-521/3355
WEBS 3-14=-325/244, 4-14=-72/1157, 5-14=-1495/376, 5-13=0/339, 7-13=0/354,
7-11=-1519/376, 8-11=-81/1140, 9-11=-269/247

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-1-3, Interior(1) 4-1-3 to 11-8-0, Exterior(2) 11-8-0 to 18-8-6, Interior(1) 18-8-6 to 38-4-0, Exterior(2) 38-4-0 to 45-4-6, Interior(1) 45-4-6 to 49-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=172.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



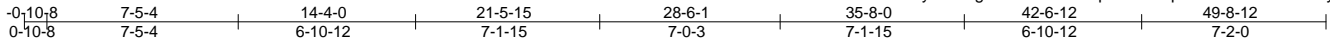
818 Soundside Road
Edenton, NC 27932

Job 21437A	Truss H4	Truss Type HIP	Qty 1	Ply 1	140.1582.A.10x25cvp	137998087
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:06:56 2019 Page 1

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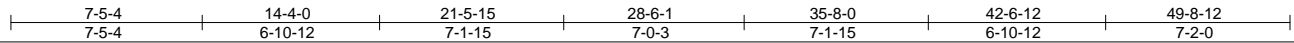
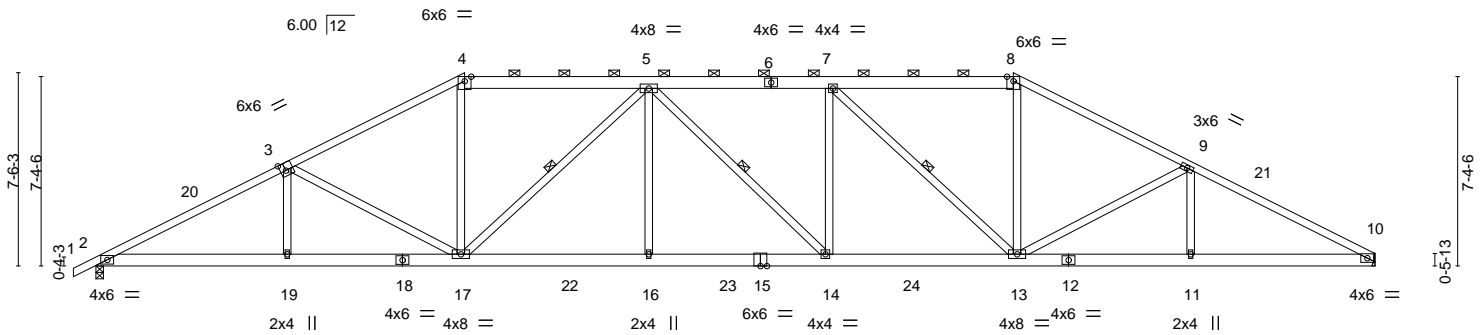


Plate Offsets (X,Y)--	[3:0-2-8,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.86	Vert(LL) -0.26	14-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.78	Vert(CT) -0.52	14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.69	Horz(CT) 0.18	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 328 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2 *Except* 3-4: 2x4 SP No.1, 8-10: 2x4 SP DSS, 1-3: 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-9-5 max.): 4-8.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-17, 5-14, 7-13

REACTIONS. (lb/size) 10=1980/Mechanical, 2=2043/0-3-8
Max Horz 2=133(LC 16)
Max Uplift 10=-142(LC 13), 2=-166(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3934/597, 3-4=-3318/564, 4-5=-2878/557, 5-7=-3517/627, 7-8=-2856/548,
8-9=-3293/556, 9-10=-3871/581
BOT CHORD 2-19=-477/3433, 17-19=-474/3438, 16-17=-387/3523, 14-16=-387/3523, 13-14=-387/3517,
11-13=-450/3363, 10-11=-450/3363
WEBS 3-19=0/294, 3-17=-618/222, 4-17=-88/1083, 5-17=-1066/221, 5-16=0/343, 7-14=0/320,
7-13=-1070/219, 8-13=-99/1072, 9-13=-564/223, 9-11=0/290

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-1-3, Interior(1) 4-1-3 to 14-4-0, Exterior(2) 14-4-0 to 21-5-15, Interior(1) 21-5-15 to 35-8-0, Exterior(2) 35-8-0 to 42-6-12, Interior(1) 42-6-12 to 49-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=1b) 10=142.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 1, 2019

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 21437A	Truss H5	Truss Type HIP	Qty 1	Ply 1	140.1582.A.10x25cvp	137998088
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:06:57 2019 Page 1

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Scale = 1:89.6

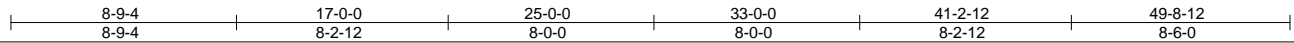
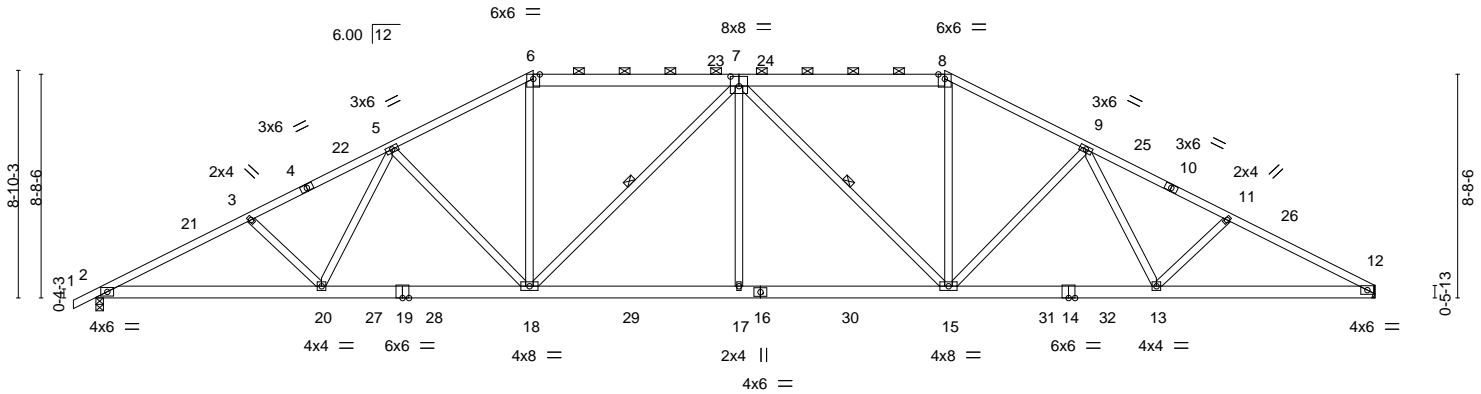


Plate Offsets (X,Y)-- [7:0-4-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.26	17-18	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.52	17-18	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.16	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 331 lb	FT = 20%

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

REACTIONS. (lb/size) 2=2043/0-3-8, 12=1980/Mechanical
 Max Horz 2=155(LC 16)
 Max Uplift 2=-193(LC 12), 12=-169(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3949/581, 3-5=-3698/571, 5-6=-3062/556, 6-7=-2689/539, 7-8=-2676/533,
 8-9=-3047/549, 9-11=-3639/560, 11-12=-3873/579
 BOT CHORD 2-20=-471/3459, 18-20=-385/3049, 17-18=-303/3114, 15-17=-303/3114, 13-15=-366/3016,
 12-13=-448/3372
 WEBS 3-20=-313/194, 5-20=-39/480, 5-18=-560/219, 6-18=-92/1031, 7-18=-730/174,
 7-17=0/422, 7-15=-747/174, 8-15=-89/1025, 9-15=-532/217, 9-13=-38/444,
 11-13=-268/195

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-1-3, Interior(1) 4-1-3 to 17-0-0, Exterior(2) 17-0-0 to 24-0-6, Interior(1) 24-0-6 to 33-0-0, Exterior(2) 33-0-0 to 40-0-6, Interior(1) 40-0-6 to 49-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=169.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job 21437A	Truss H6	Truss Type HIP	Qty 1	Ply 1	140.1582.A.10x25cvp	137998089
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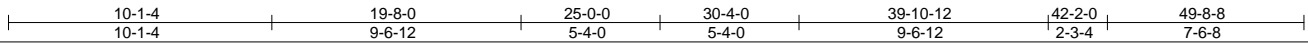
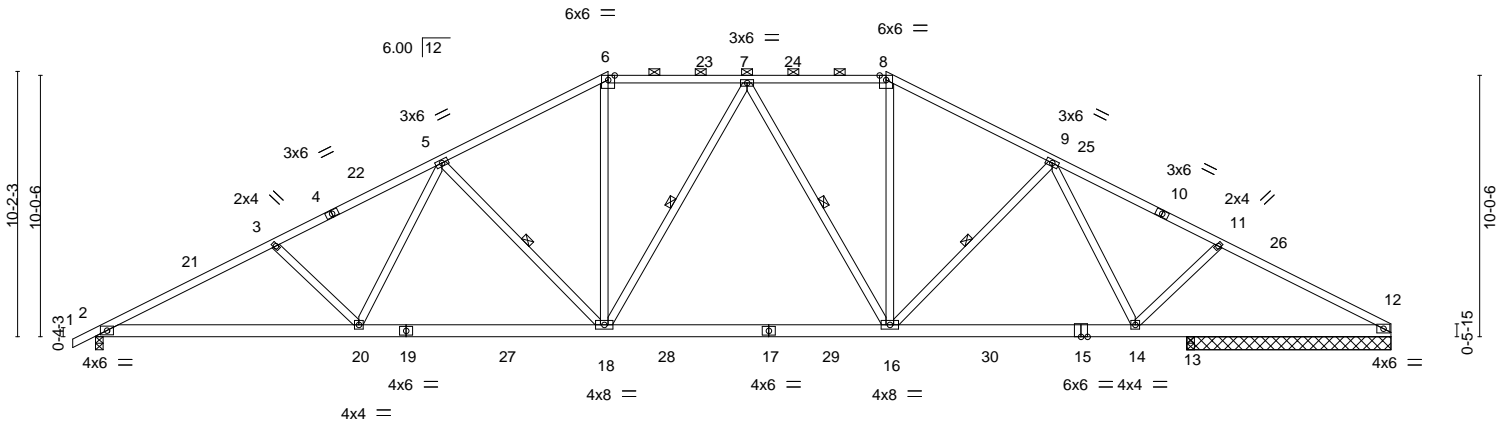
84 Components (Dunn), Dunn, NC - 28334,

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Scale = 1:88.4



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 0.71	Vert(LL)	-0.24 16-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.72	Vert(CT)	-0.46 14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.10 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 318 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-8-14 max.): 6-8.
BOT CHORD 2x6 SP DSS *Except* 17-19: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-18, 7-18, 7-16, 9-16

REACTIONS. All bearings 0-3-8 except (jt=length) 12=7-10-0.
 (lb) - Max Horz 2=178(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 13 except 2=-217(LC 12), 12=-158(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=1885(LC 1), 12=1111(LC 1), 13=1030(LC 1), 13=1030(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3550/522, 3-5=-3287/512, 5-6=-2519/493, 6-7=-2182/487, 7-8=-2024/469,
 8-9=-2342/472, 9-11=-2029/390, 11-12=-2266/407
 BOT CHORD 2-20=-431/3094, 18-20=-312/2637, 16-18=-182/2197, 14-16=-236/1994, 13-14=-290/1946,
 12-13=-290/1946
 WEBS 3-20=-367/223, 5-20=-48/569, 5-18=-706/262, 6-18=-85/832, 7-18=-261/168,
 7-16=-531/155, 8-16=-77/754, 9-14=-585/118, 11-14=-347/228

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-1-3, Interior(1) 4-1-3 to 19-8-0, Exterior(2) 19-8-0 to 26-8-6, Interior(1) 26-8-6 to 30-4-0, Exterior(2) 30-4-0 to 37-4-6, Interior(1) 37-4-6 to 49-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=158.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 1, 2019

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

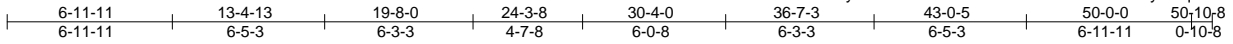
818 Soundside Road
 Edenton, NC 27932

Job 21437A	Truss H10	Truss Type HIP	Qty 1	Ply 1	140.1582.A.10x25cvp	137998090
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:06:49 2019 Page 1

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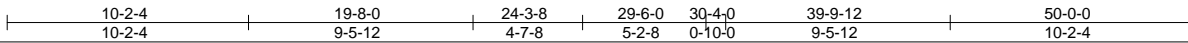
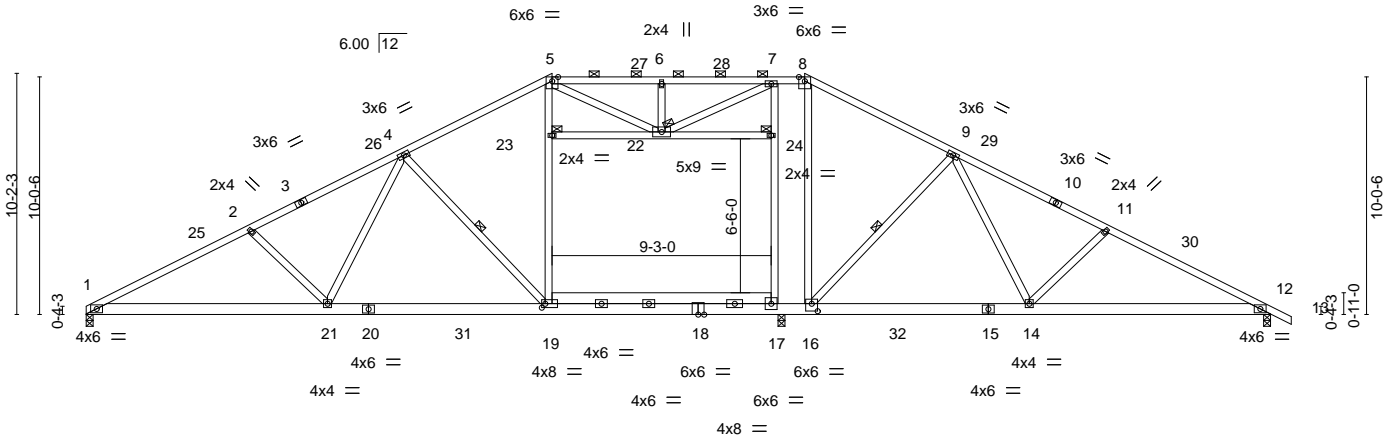


Plate Offsets (X,Y)-- [16:0-3-0,0-3-12], [19:0-1-12,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.64	19-21	>544	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-1.13	19-21	>306		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.12	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Attic	-0.60	17-19	381	Weight: 355 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-3: 2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except*
15-18,18-20: 2x6 SP DSS
WEBS 2x4 SP No.3 *Except*
5-19,8-16,7-17: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-2-2 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-19, 9-16
JOINTS 1 Brace at Jt(s): 22, 23, 24

REACTIONS.

(lb/size) 1=1785/0-3-8, 17=602/0-3-8, 12=1746/0-3-8
Max Horz 1=-178(LC 13)
Max Uplift 1=-235(LC 12), 17=-226(LC 13), 12=-102(LC 12)
Max Grav 1=1976(LC 26), 17=891(LC 25), 12=1870(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3990/489, 2-4=-3744/470, 4-5=-2842/434, 5-6=-2793/520, 6-7=-2791/519,
7-8=-2407/425, 8-9=-2716/444, 9-11=-3319/440, 11-12=-3569/459
BOT CHORD 1-21=-514/3502, 19-21=-320/2984, 17-19=-134/2446, 16-17=-130/2411, 14-16=-172/2710,
12-14=-291/3126
WEBS 2-21=-381/236, 4-21=-65/695, 4-19=-801/269, 19-23=-68/879, 5-23=-58/898,
6-22=-362/147, 8-16=-119/1016, 9-16=-676/280, 9-14=-70/534, 11-14=-387/227,
17-24=-456/134, 7-24=-434/144, 5-22=-117/360, 7-22=-131/566

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 5-1-12, Interior(1) 5-1-12 to 19-8-0, Exterior(2) 19-8-0 to 26-8-14, Interior(1) 26-8-14 to 30-4-0, Exterior(2) 30-4-0 to 37-4-14, Interior(1) 37-4-14 to 50-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s). 22-23, 22-24
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 17-19
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 17, and 12. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



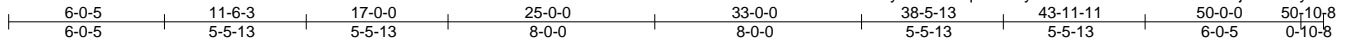
818 Soundside Road
Edenton, NC 27932

Job 21437A	Truss H11	Truss Type HIP	Qty 1	Ply 1	140.1582.A.10x25cwp	137998091
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:06:50 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-sixqKEL1Ty7kMui4AJ?Z2RwsROURz5jexiKDRysW2Z



Scale = 1:89.1

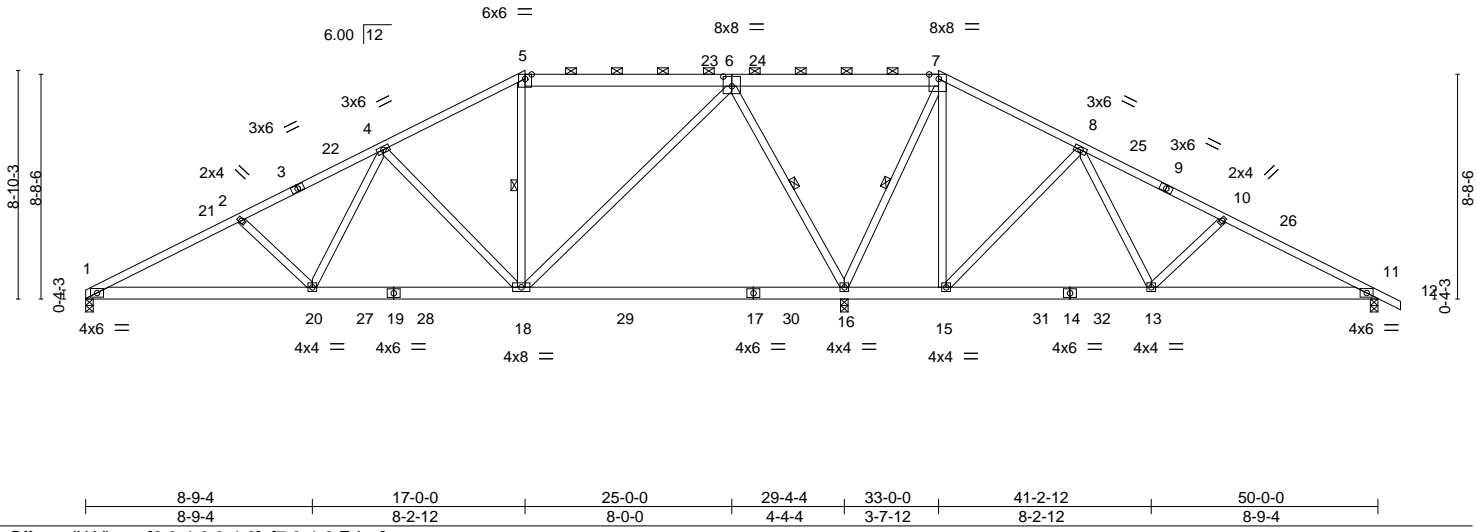


Plate Offsets (X,Y)--	[6:0-4-0,0-4-8], [7:0-4-6,Edge]
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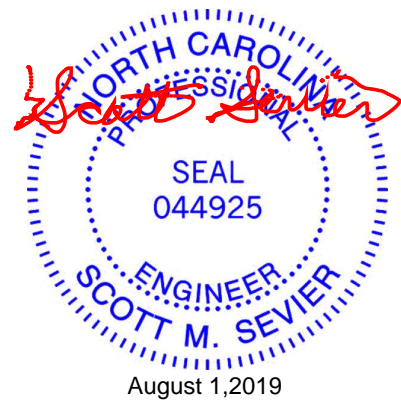
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.20	16-18	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.34	16-18	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.75	Horz(CT)	0.02	16	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 330 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 6-7,5-6: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-1 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 5-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-18, 6-16, 7-16

REACTIONS. (lb/size) 1=892/0-3-8, 16=2658/0-3-8, 11=489/0-3-8
 Max Horz 1=-155(LC 17)
 Max Uplift 1=-132(LC 12), 16=-96(LC 12), 11=-143(LC 13)
 Max Grav 1=947(LC 23), 16=2658(LC 1), 11=571(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1680/264, 2-4=-1421/246, 4-5=-735/211, 5-6=-599/230, 6-7=-7/969, 7-8=-12/600,
 8-10=-460/200, 10-11=-718/230
 BOT CHORD 1-20=-301/1439, 18-20=-135/1004, 16-18=-301/232, 15-16=-490/235, 11-13=-120/577
 WEBS 2-20=-338/203, 4-20=-56/464, 4-18=-604/229, 6-18=-110/1083, 6-16=-1494/341,
 7-16=-1192/250, 7-15=-120/497, 8-15=-649/217, 8-13=-33/543, 10-13=-334/195

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 5-1-12, Interior(1) 5-1-12 to 17-0-0, Exterior(2) 17-0-0 to 24-0-14, Interior(1) 24-0-14 to 33-0-0, Exterior(2) 33-0-0 to 40-0-14, Interior(1) 40-0-14 to 50-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 16, and 11. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

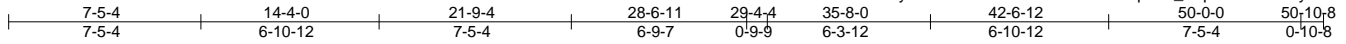


Job 21437A	Truss H12	Truss Type HIP	Qty 1	Ply 1	140.1582.A.10x25cvp	137998092
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:06:51 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-KuVCXaLffFbz1HGkaqE6G_2qfiAN0stbSultysW2Y



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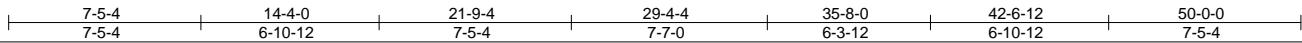
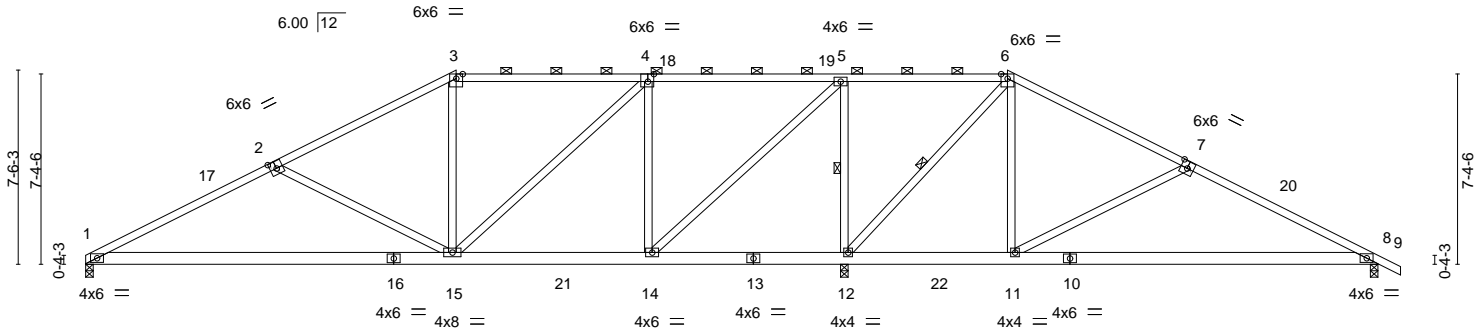


Plate Offsets (X,Y)-- [2:0-3-0,0-3-4], [4:0-2-12,Edge], [7:0-3-0,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	-0.33	1-15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.89	Vert(CT)	-0.69	1-15	>509		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.02	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 303 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-11-1 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (4-10-5 max.): 3-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
	WEBS 1 Row at midpt 5-12, 6-12

REACTIONS. (lb/size) 1=961/0-3-8, 12=2490/0-3-8, 8=587/0-3-8
 Max Horz 1=-134(LC 17)
 Max Uplift 1=-118(LC 12), 12=-206(LC 9), 8=-134(LC 13)
 Max Grav 1=995(LC 23), 12=2490(LC 1), 8=640(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1631/331, 2-3=-1147/199, 3-4=-936/231, 4-5=-449/159, 5-6=-23/817, 7-8=-719/245
 BOT CHORD 1-15=-264/1403, 14-15=-68/463, 12-14=-815/290, 8-11=-118/571
 WEBS 2-15=-530/319, 4-15=-94/708, 4-14=-970/236, 5-14=-237/1575, 5-12=-1497/342, 6-12=-1183/170, 6-11=0/631, 7-11=-544/307

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 5-1-12, Interior(1) 5-1-12 to 14-4-0, Exterior(2) 14-4-0 to 21-4-14, Interior(1) 21-4-14 to 35-8-0, Exterior(2) 35-8-0 to 42-8-3, Interior(1) 42-8-3 to 50-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 12, and 8. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 1, 2019

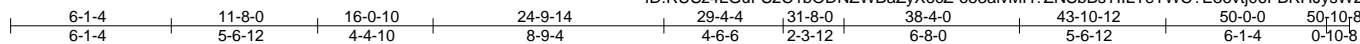
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 21437A	Truss H13	Truss Type HIP	Qty 1	Ply 1	140.1582.A.10x25cvp	137998093
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:06:52 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-o53alvMH?ZNSbStIILTeTWC?E36vtj06FBRHJysW2X



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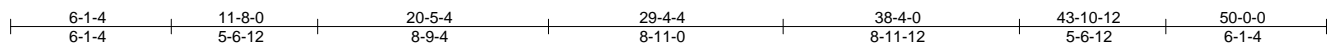
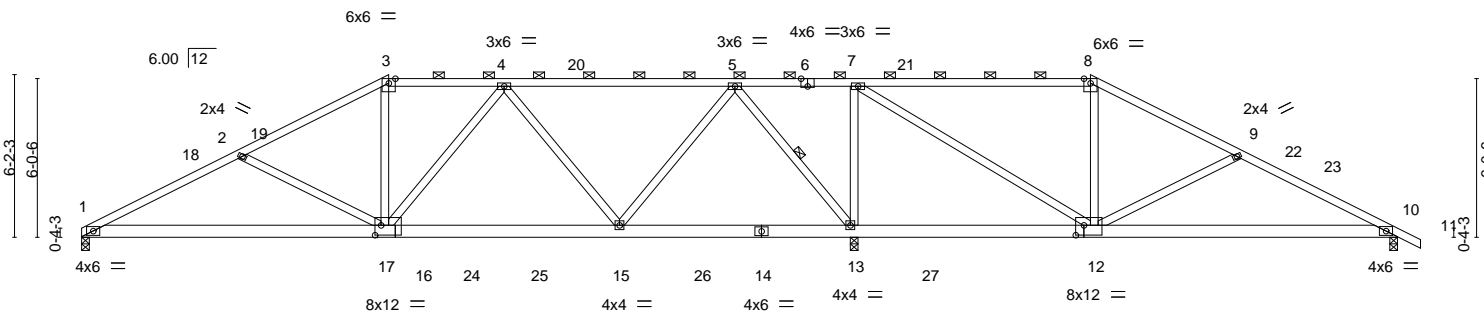


Plate Offsets (X,Y)-- [6:0-3-0,Edge], [12:0-3-12,0-4-8], [16:0-2-12,0-4-8], [16:0-0-0,0-2-12], [17:0-1-12,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.14	1-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.63	Vert(CT)	-0.31	1-17	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.75	Horz(CT)	0.03	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 295 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
6-8: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins, except
2-0-0 oc purlins (4-3-4 max.): 3-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-13

REACTIONS. (lb/size) 1=967/0-3-8, 13=2475/0-3-8, 10=596/0-3-8
Max Horz 1=-111(LC 17)
Max Uplift 1=-106(LC 12), 13=-286(LC 9), 10=-134(LC 13)
Max Grav 1=986(LC 23), 13=2475(LC 1), 10=635(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1721/358, 2-3=-1327/235, 3-4=-1107/251, 4-5=-593/143, 5-7=-53/946,
7-8=-307/152, 8-9=-408/128, 9-10=-801/241
BOT CHORD 1-17=-251/1494, 15-17=-152/1036, 12-13=-946/279, 10-12=-130/655
WEBS 2-17=-431/259, 3-17=-20/366, 4-15=-747/193, 5-15=-67/942, 5-13=-1428/240,
7-13=-1177/272, 7-12=-217/1380, 8-12=-308/145, 9-12=-405/244

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 5-1-12, Interior(1) 5-1-12 to 11-8-0, Exterior(2) 11-8-0 to 18-8-14, Interior(1) 18-8-14 to 38-4-0, Exterior(2) 38-4-0 to 45-4-14, Interior(1) 45-4-14 to 50-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 13, and 10. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



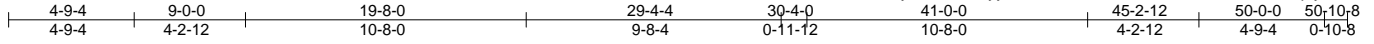
818 Soundside Road
Edenton, NC 27932

Job 21437A	Truss H14	Truss Type HIP	Qty 1	Ply 1	140.1582.A.10x25cvp	137998094
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:06:53 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-GHdyFNvmtWJDLRfr?siBh3NieQTeG09Kvx_plysW2W



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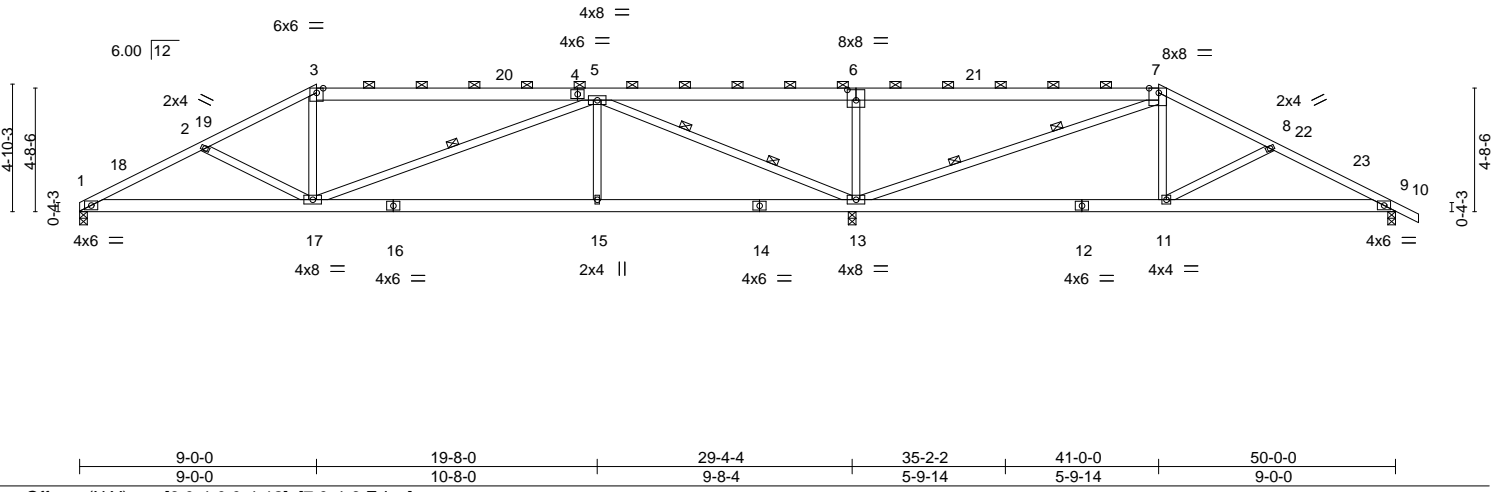


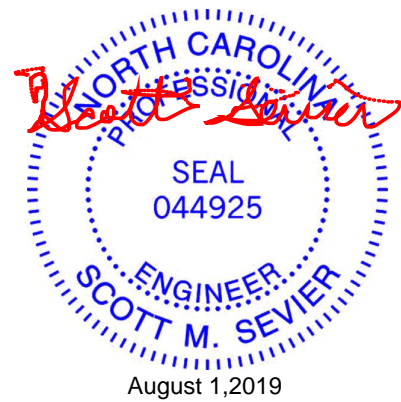
Plate Offsets (X,Y)--	[6:0-4-0,0-4-12], [7:0-4-6,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.89	Vert(LL) -0.10 15-17 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(CT) -0.24 15-17 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 1.00	Horz(CT) 0.06 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 310 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-3,7-10: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-10-1 oc purlins, except 2-0-0 oc purlins (3-6-3 max.): 3-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-17 2 Rows at 1/3 pts 5-13, 7-13

REACTIONS. (lb/size) 1=1039/0-3-8, 13=2316/0-3-8, 9=682/0-3-8
 Max Horz 1=-89(LC 13)
 Max Uplift 1=-87(LC 12), 13=-342(LC 9), 9=-116(LC 13)
 Max Grav 1=1045(LC 23), 13=2316(LC 1), 9=696(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1958/369, 2-3=-1701/280, 3-5=-1485/287, 5-6=-64/692, 6-7=-62/695,
 7-8=-767/144, 8-9=-1037/232
 BOT CHORD 1-17=-268/1697, 15-17=-203/1369, 13-15=-203/1369, 11-13=0/637, 9-11=-146/874
 WEBS 3-17=0/416, 5-15=0/389, 5-13=-2216/353, 6-13=-709/311, 7-13=-1390/215, 7-11=0/484,
 8-11=-257/189

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 5-1-12, Interior(1) 5-1-12 to 9-0-0, Exterior(2) 9-0-0 to 16-0-14, Interior(1) 16-0-14 to 41-0-0, Exterior(2) 41-0-0 to 48-0-14, Interior(1) 48-0-14 to 50-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 13, and 9. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

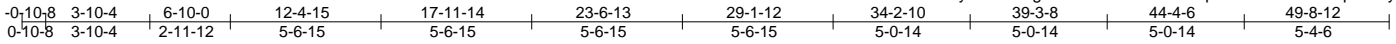


Job 21437A	Truss HG1	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	140.1582.A.10x25cvp	137998095
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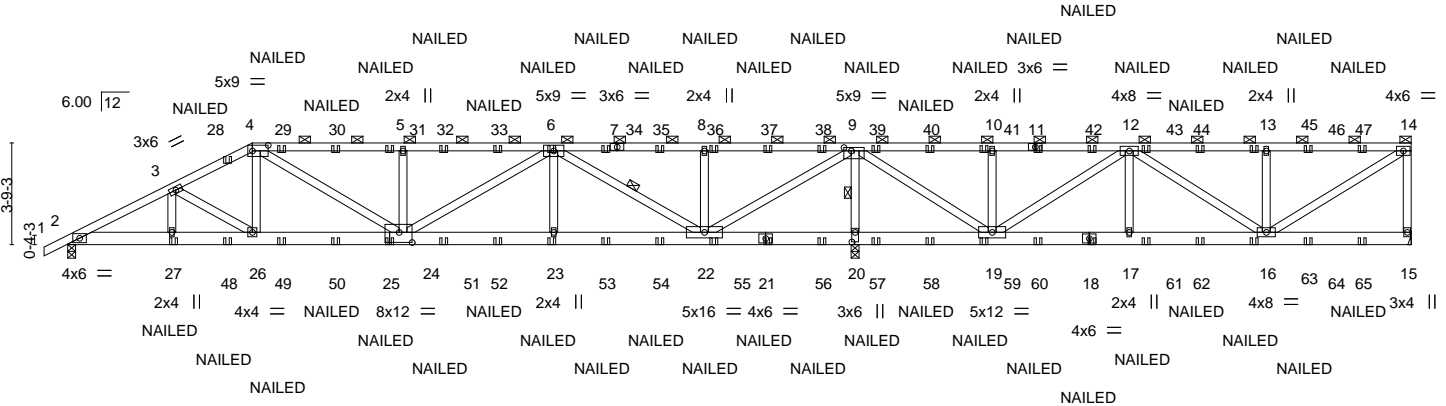
84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:02 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-V0gMrkUZzee1okdOtOWp2axuAGUIFLcUPpdzekysW2N



Scale = 1:85.3



	3-10-4	6-10-0	12-4-15	17-11-14	23-6-13	29-1-12	34-2-10	39-3-8	44-4-6	49-8-12
	3-10-4	2-11-12	5-6-15	5-6-15	5-6-15	5-6-15	5-0-14	5-0-14	5-0-14	5-4-6
Plate Offsets (X, Y)--	[4:0-7-0,0-2-8], [9:0-3-4,0-1-8],		[20:0-4-4,0-1-8], [24:0-1-12,0-0-0],		[25:0-5-12,0-4-8], [25:0-0-0,0-2-12]					

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.94	Vert(LL)	0.18 23-24	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.30 23-24	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.91	Horz(CT)	0.04 20	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 310 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals, and 2-0-0 oc purlins (2-5-1 max.): 4-14.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 4-3-1 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 6-22, 9-20
6-24,6-22,9-22,9-19,12-19,12-16: 2x4 SP No.2	

REACTIONS. (lb/size) 15=834/Mechanical, 2=1455/0-3-8, 20=3987/0-3-8 (req. 0-4-11)
 Max Horz 2=147(LC 12)
 Max Uplift 15=305(LC 8), 2=334(LC 12), 20=-1398(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2723/729, 3-4=-2484/742, 4-5=-2775/930, 5-6=-2774/930, 6-8=-308/126,
 8-9=-308/126, 9-10=-166/542, 10-12=-166/542, 12-13=-893/341, 13-14=-893/341,
 14-15=-755/336
 BOT CHORD 2-27=-744/2380, 26-27=-744/2380, 24-26=-700/2201, 23-24=-741/2157, 22-23=-741/2157,
 20-22=-2609/878, 19-20=-2609/878, 17-19=-288/678, 16-17=-288/678
 WEBS 4-26=0/455, 4-24=-342/685, 5-24=-570/400, 6-24=-233/723, 6-23=0/389,
 6-22=-2163/723, 8-22=-534/375, 9-22=-1172/3414, 9-20=-3691/1460, 9-19=-876/2487,
 10-19=-474/333, 12-19=-1467/513, 12-17=0/343, 12-16=-83/258, 13-16=-536/374,
 14-16=-387/1024

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-10-4, Interior(1) 3-10-4 to 6-10-0, Exterior(2) 6-10-0 to 13-10-6, Interior(1) 13-10-6 to 49-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) WARNING: Required bearing size at joint(s) 20 greater than input bearing size.
 - 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) 15=305, 20=1398.
 - 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 Continued on page 2



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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

Job 21437A	Truss HG1	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	140.1582.A.10x25cvp Job Reference (optional)	I37998095
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:02 2019 Page 2
ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-V0gMrKUZeet1okdOtOWp2axuAGUIFLcUPpdzekysW2N

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-14=-60, 2-15=-20

Concentrated Loads (lb)

Vert: 25=-27(F) 27=-59(F) 6=-73(F) 23=-27(F) 11=-73(F) 18=-27(F) 21=-27(F) 28=-63(F) 29=-73(F) 30=-73(F) 31=-73(F) 32=-73(F) 33=-73(F) 34=-73(F) 35=-73(F) 36=-73(F) 37=-73(F) 38=-73(F) 39=-73(F) 40=-73(F) 41=-73(F) 42=-73(F) 43=-73(F) 44=-73(F) 45=-73(F) 46=-73(F) 47=-73(F) 48=-37(F) 49=-27(F) 50=-27(F) 51=-27(F) 52=-27(F) 53=-27(F) 54=-27(F) 55=-27(F) 56=-27(F) 57=-27(F) 58=-27(F) 59=-27(F) 60=-27(F) 61=-27(F) 62=-27(F) 63=-27(F) 64=-27(F) 65=-27(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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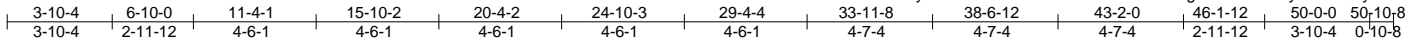
818 Soundside Road
Edenton, NC 27932

Job 21437A	Truss HG15	Truss Type HIP GIRDER	Qty 1	Ply 1	140.1582.A.10x25cvp	137998096
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:05 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWvBaZyX6cZ-vbLUTMWRxZ0cFbMzYW4WgDZQTTVKSiw5nrdF3ysW2K



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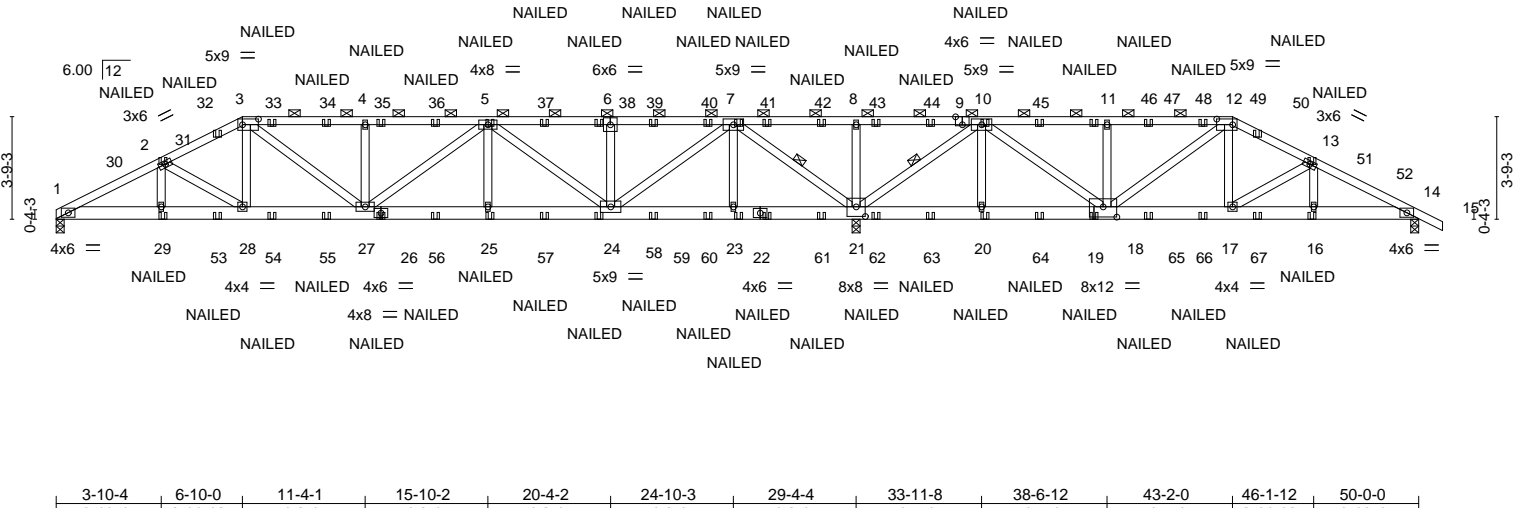


Plate Offsets (X, Y)-- [3:0-7-0,0-2-8], [9:0-3-0,Edge], [12:0-7-0,0-2-8], [18:0-6-0,0-4-8], [18:0-1-12,0-0-0], [19:0-0-0,0-2-12], [21:0-4-0,0-4-4]

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 0.88	Vert(LL)	0.18 25-27	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.28 25-27	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.94	Horz(CT)	0.05 14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 312 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 9-12,6-9: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins, except 2-0-0 oc purlins (3-0-13 max.): 3-12.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-21, 10-21

REACTIONS. (lb/size) 1=1475/0-3-8, 21=4147/0-3-8 (req. 0-4-14), 14=809/0-3-8
 Max Horz 1=-72(LC 36)
 Max Uplift 1=-364(LC 12), 21=-1425(LC 9), 14=-175(LC 13)
 Max Grav 1=1479(LC 23), 21=4147(LC 1), 14=817(LC 24)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

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

TOP CHORD 1-2=-2927/828, 2-3=-2583/816, 3-4=-2822/980, 4-5=-2821/980, 5-6=-1582/617,
 6-7=-1580/616, 7-8=-906/2848, 8-10=-906/2848, 10-11=-434/170, 11-12=-434/170,
 12-13=-961/265, 13-14=-1372/296

BOT CHORD 1-29=-690/2566, 28-29=-690/2566, 27-28=-668/2286, 25-27=-886/2594, 24-25=-886/2594,
 23-24=-252/110, 21-23=-252/110, 20-21=-881/374, 18-20=-881/374, 17-18=-134/834,
 16-17=-214/1178, 14-16=-214/1178

WEBS 2-28=-348/88, 3-28=0/444, 3-27=-333/703, 4-27=-457/323, 5-27=-61/292, 5-25=0/302,
 5-24=-1273/400, 6-24=-436/301, 7-24=-748/2263, 7-23=0/294, 7-21=-3249/1156,
 8-21=-474/317, 10-21=-2451/801, 10-20=0/253, 10-18=-495/1592, 11-18=-479/332,
 12-18=-510/118, 12-17=0/432, 13-17=-421/108

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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 6-10-0, Exterior(2) 6-10-0 to 11-4-1, Interior(1) 11-4-1 to 43-2-0, Exterior(2) 43-2-0 to 47-4-15, Interior(1) 47-4-15 to 50-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - WARNING: Required bearing size at joint(s) 21 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=1425.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 14. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Chord and Plate CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 21437A	Truss HG15	Truss Type HIP GIRDER	Qty 1	Ply 1	140.1582.A.10x25cvp I37998096 Job Reference (optional)
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:05 2019 Page 2
ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-vbLUTMWRxZ0cfBMzYW4WgDZQTTVKSiw5nrdF3ysW2K

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-12=-60, 12-15=-60, 1-14=-20

Concentrated Loads (lb)

Vert: 26=-27(B) 2=-87(B) 29=-59(B) 5=-73(B) 25=-27(B) 7=-73(B) 23=-27(B) 20=-27(B) 10=-73(B) 13=-87(B) 16=-59(B) 19=-27(B) 22=-27(B) 32=-63(B) 33=-73(B) 34=-73(B) 35=-73(B) 36=-73(B) 37=-73(B) 38=-73(B) 39=-73(B) 40=-73(B) 41=-73(B) 42=-73(B) 43=-73(B) 44=-73(B) 45=-73(B) 46=-73(B) 48=-73(B) 49=-73(B) 50=-63(B) 53=-37(B) 54=-27(B) 55=-27(B) 56=-27(B) 57=-27(B) 58=-27(B) 59=-27(B) 60=-27(B) 61=-27(B) 62=-27(B) 63=-27(B) 64=-27(B) 65=-27(B) 66=-27(B) 67=-37(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job 21437A	Truss J1	Truss Type JACK-OPEN	Qty 40	Ply 1	140.1582.A.10x25cvp	137998097
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:06 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-OnvthiX3is8TGLw96EblDQ5imtw_BNq4KRbAnVysW2J

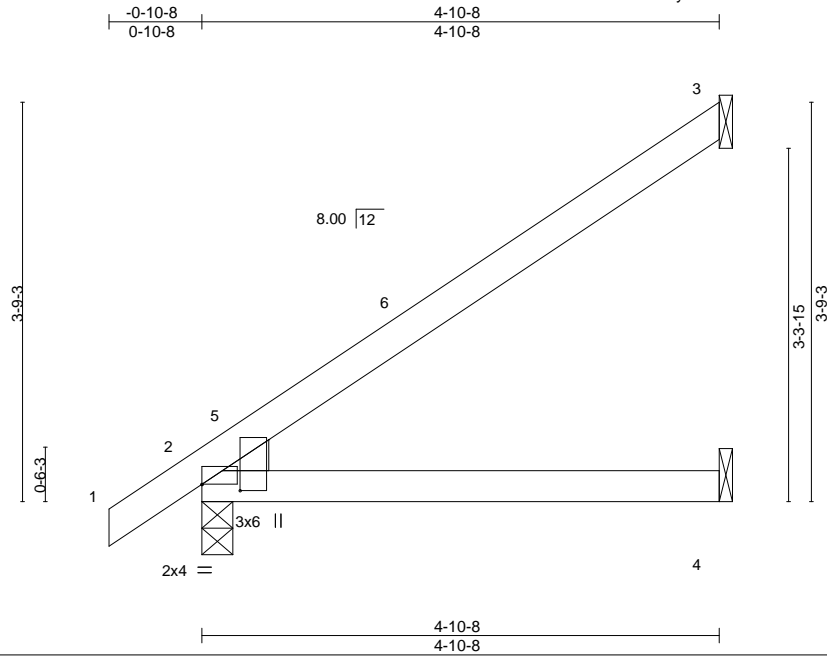


Plate Offsets (X,Y)--	[2:0-0-0,0-0-0], [2:0-0-11,0-4-5]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) -0.03 2-4 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.06 2-4 >984 180		
BCLL 0.0 *	Rep Stress Incr 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.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

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

REACTIONS. (lb/size) 3=133/Mechanical, 2=255/0-3-8, 4=47/Mechanical
Max Horz 2=144(LC 12)
Max Uplift 3=107(LC 12), 2=11(LC 12)
Max Grav 3=148(LC 19), 2=255(LC 1), 4=93(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; 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 4-9-12 zone; 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) 3=107.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



August 1, 2019

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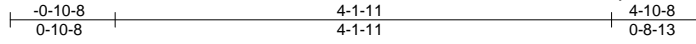
818 Soundside Road
Edenton, NC 27932

Job 21437A	Truss J2	Truss Type JACK-OPEN	Qty 3	Ply 1	140.1582.A.10x25cvp	137998098
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:07 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWbZyX6cZ-szTFu2YhTAGKuVVLgx6_leeuZHGgwq4DY5KkJyysW2I



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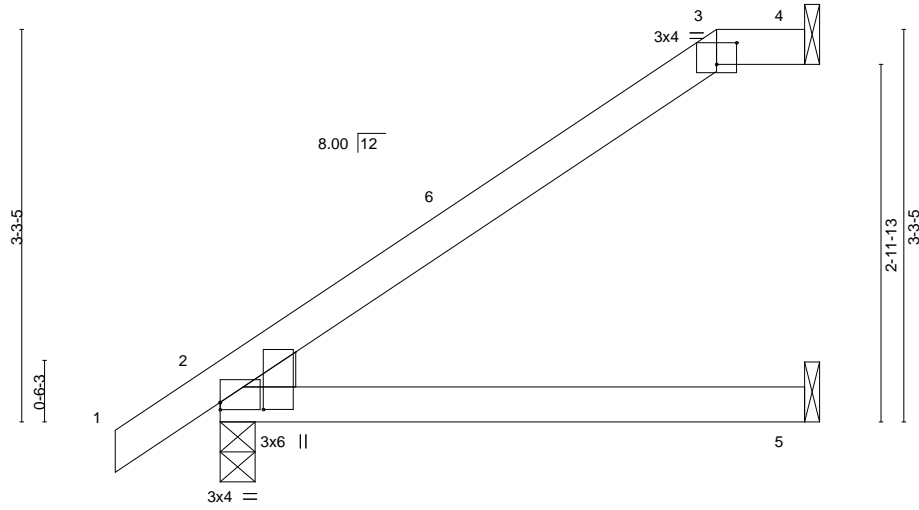


Plate Offsets (X,Y)-- [2:0-0-11,0-4-5], [2:0-0-0,0-0-12], [3:0-2-0,0-2-3]

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)	-0.02	2-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.05	2-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.03	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 18 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3

BRACING-

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

REACTIONS. (lb/size) 4=123/Mechanical, 2=255/0-3-8, 5=57/Mechanical
 Max Horz 2=128(LC 12)
 Max Uplift 4=69(LC 12), 2=-21(LC 12)
 Max Grav 4=123(LC 1), 2=255(LC 1), 5=88(LC 3)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; 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 4-1-11, Exterior(2) 4-1-11 to 4-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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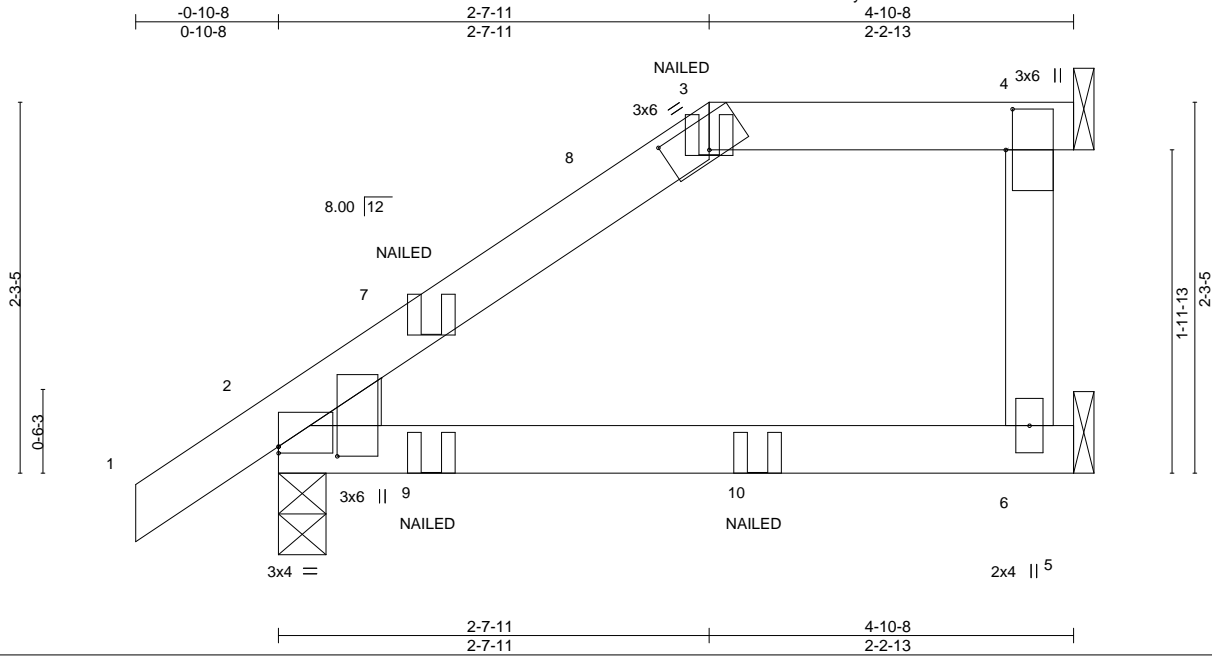
818 Soundside Road
 Edenton, NC 27932

Job 21437A	Truss J3	Truss Type JACK-OPEN GIRDER	Qty 3	Ply 1	140.1582.A.10x25cvp	137998099
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84 Components (Dunn),

Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:08 2019 Page 1
ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-KA1d6OZKEUOBWf4XEfdlRb1GhaMfHKMn4HrOysW2H



Scale = 1:14.1

Plate Offsets (X, Y)--	[2:0-0-11,0-4-5], [2:0-0-0,0-0-8], [3:0-3-0,0-2-3], [4:0-3-0,0-0-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) 0.03 2-6 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.06 2-6 >920 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.06 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 20 lb	FT = 20%

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

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

REACTIONS. (lb/size) 2=319/0-3-8, 4=143/Mechanical, 6=78/Mechanical
 Max Horz 2=90(LC 12)
 Max Uplift 2=-52(LC 12), 4=-69(LC 9)
 Max Grav 2=319(LC 1), 4=143(LC 1), 6=120(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; 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 2-7-11, Exterior(2) 2-7-11 to 4-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-60, 2-5=-20
 Concentrated Loads (lb)
 Vert: 3=-41(B) 7=-36(B) 9=-24(B) 10=-16(B)



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



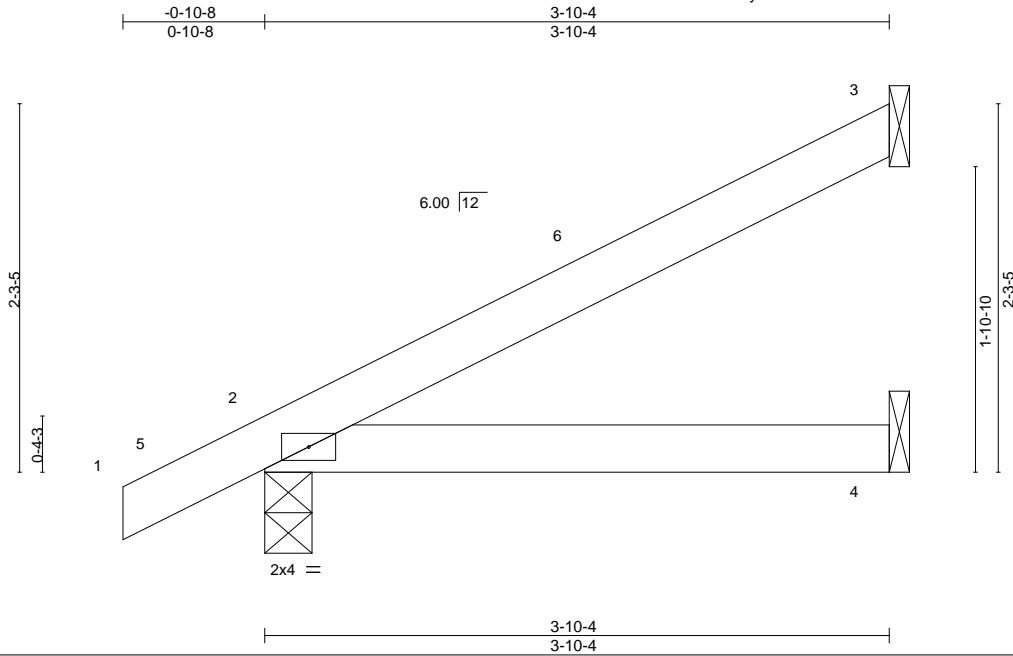
818 Soundside Road
 Edenton, NC 27932

Job 21437A	Truss J4	Truss Type JACK-OPEN	Qty 2	Ply 1	140.1582.A.10x25cvp	137998100
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:08 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-KA1d6OZKEUOBWf4XEfdDirB53hdBfHKMn4HrOysW2H



Scale = 1:14.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.01	2-4	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.02	2-4	>999	180		
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.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (lb/size) 3=101/Mechanical, 2=216/0-3-8, 4=36/Mechanical
Max Horz 2=88(LC 12)
Max Uplift 3=65(LC 12), 2=32(LC 12)
Max Grav 3=101(LC 1), 2=216(LC 1), 4=73(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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 3-9-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



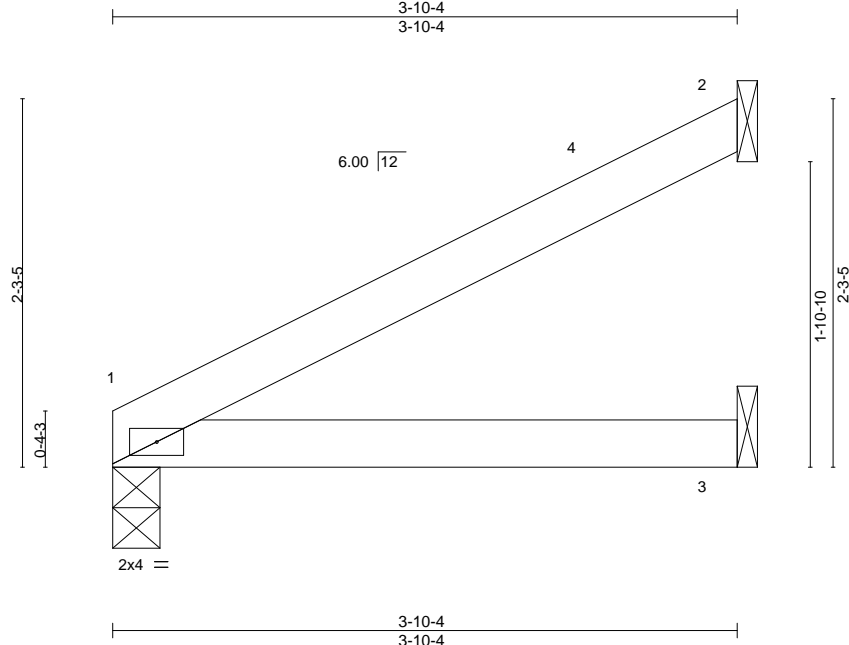
818 Soundside Road
Edenton, NC 27932

Job 21437A	Truss J4A	Truss Type JACK-OPEN	Qty 1	Ply 1	140.1582.A.10x25cvp	137998101
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:09 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-oMb?JkZy?nX27ofknM8Sr3jGD5zQOkZW0PpOqysW2G



Scale = 1:14.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	-0.01 1-3	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.02 1-3	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=146/0-3-8, 2=109/Mechanical, 3=36/Mechanical
 Max Horz 1=75(LC 12)
 Max Uplift 1=-7(LC 12), 2=-68(LC 12)
 Max Grav 1=146(LC 1), 2=109(LC 1), 3=73(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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 3-9-8 zone;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 connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.



August 1, 2019

Job 21437A	Truss J5	Truss Type JACK-OPEN	Qty 2	Ply 1	140.1582.A.10x25cvp	137998102
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:09 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-oMb?JKZy?nX27ofknM8Sr3jHG5znOkZW0PprOqysW2G

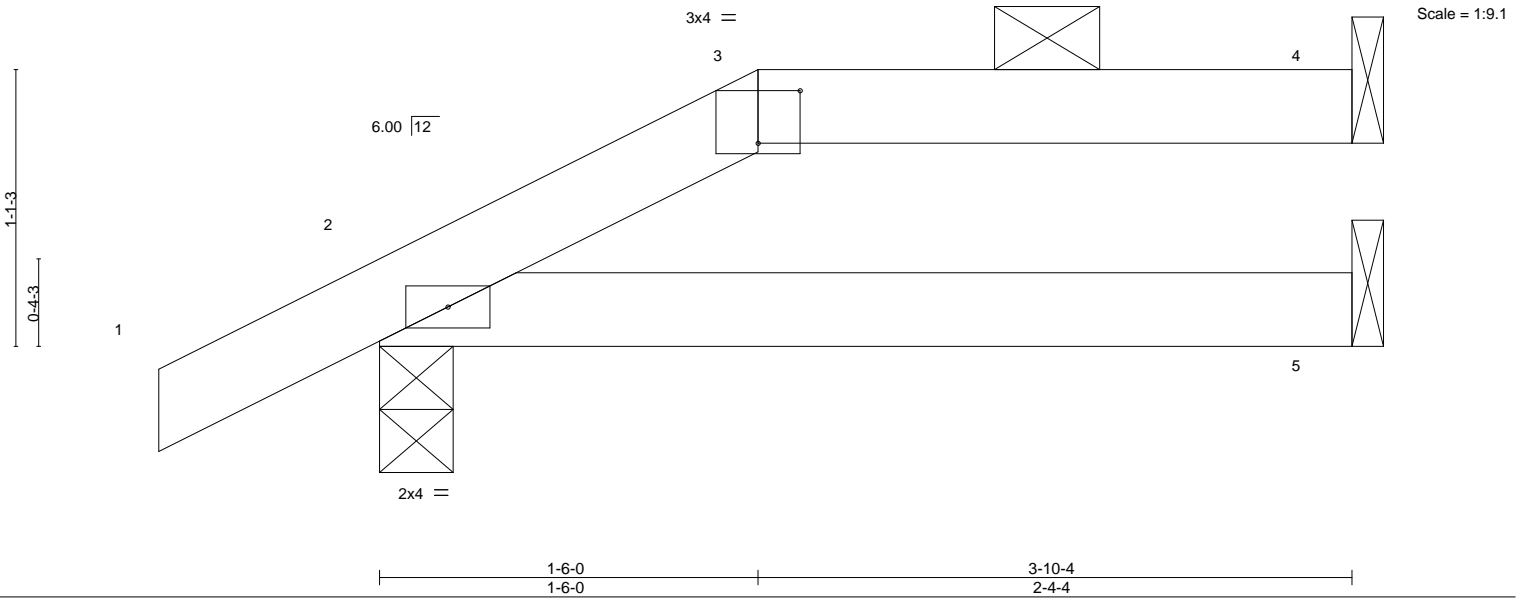
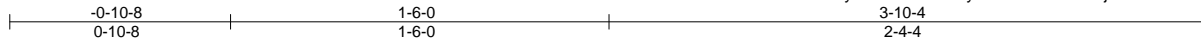


Plate Offsets (X,Y)--	[3:0-2-0,0-2-8]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	-0.01	2-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02	2-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 13 lb	FT = 20%

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

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

REACTIONS. (lb/size) 4=96/Mechanical, 2=216/0-3-8, 5=42/Mechanical
 Max Horz 2=44(LC 12)
 Max Uplift 4=-38(LC 9), 2=-36(LC 12)
 Max Grav 4=96(LC 1), 2=216(LC 1), 5=67(LC 3)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 21437A	Truss J5A	Truss Type JACK-OPEN	Qty 1	Ply 1	140.1582.A.10x25cvp	137998103
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:10 2019 Page 1
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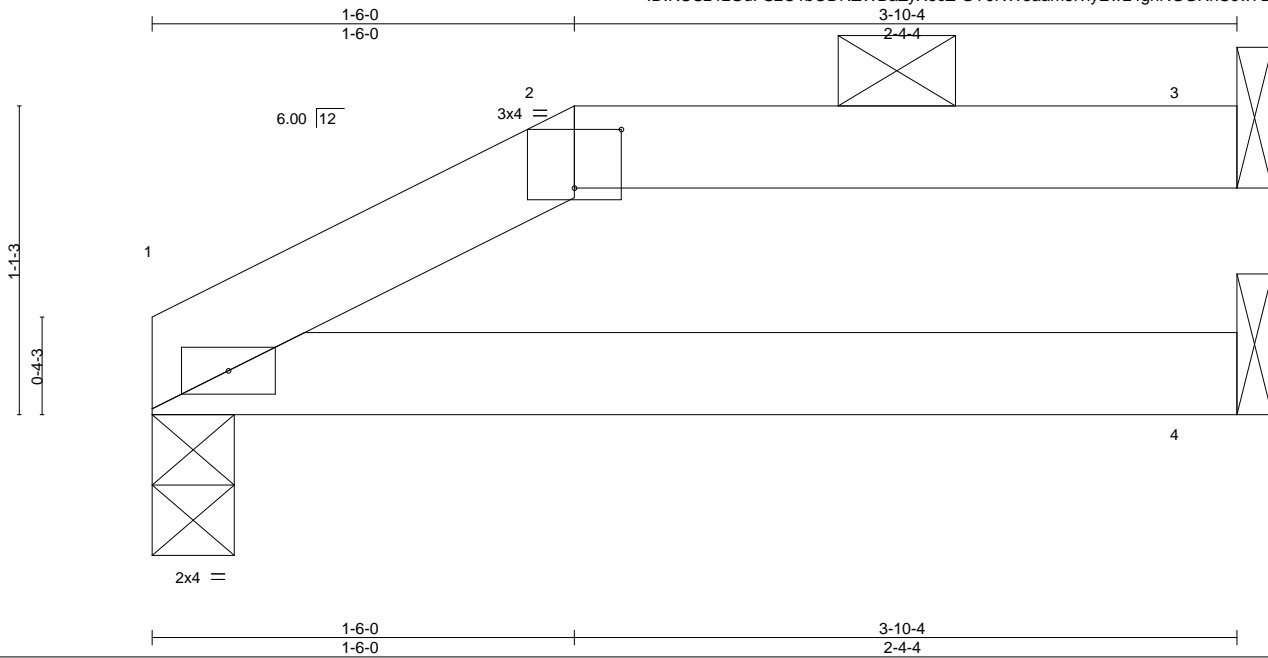


Plate Offsets (X,Y)--	[2:0-2-0,0-2-8]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	-0.01	1-4	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.02	1-4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 12 lb	FT = 20%

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

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

REACTIONS. (lb/size) 1=146/0-3-8, 3=100/Mechanical, 4=46/Mechanical
Max Horz 1=31(LC 12)
Max Uplift 1=-11(LC 12), 3=-39(LC 9)
Max Grav 1=146(LC 1), 3=100(LC 1), 4=69(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



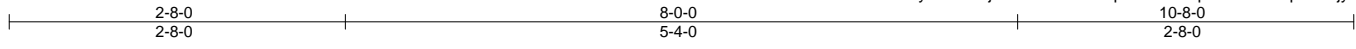
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 21437A	Truss PB1	Truss Type PIGGYBACK	Qty 2	Ply 1	140.1582.A.10x25cvp	137998104
84 Components (Dunn), Dunn, NC - 28334,					8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:11 2019 Page 1	
					ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-kkjmKpBCXpNmN6p6vnBwwUpZ2uWEse3pTilxSjysW2E	
Job Reference (optional)						



Scale = 1:18.3

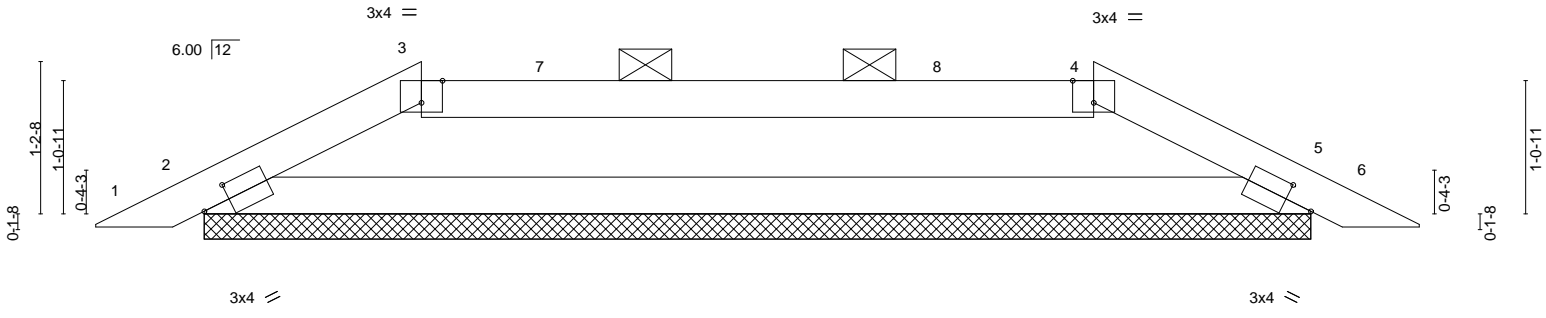


Plate Offsets (X,Y)--	[2:0-2-10,0-1-8], [3:0-2-0,Edge], [4:0-2-0,Edge], [5:0-2-10,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	0.01	6	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 30 lb	FT = 20%

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

REACTIONS. (lb/size) 2=384/8-9-6, 5=384/8-9-6
 Max Horz 2=-18(LC 17)
 Max Uplift 2=-39(LC 9), 5=-39(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-662/298, 3-4=-608/281, 4-5=-662/298
 BOT CHORD 2-5=-227/608

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-11 to 6-10-15, Interior(1) 6-10-15 to 8-0-0, Exterior(2) 8-0-0 to 10-3-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



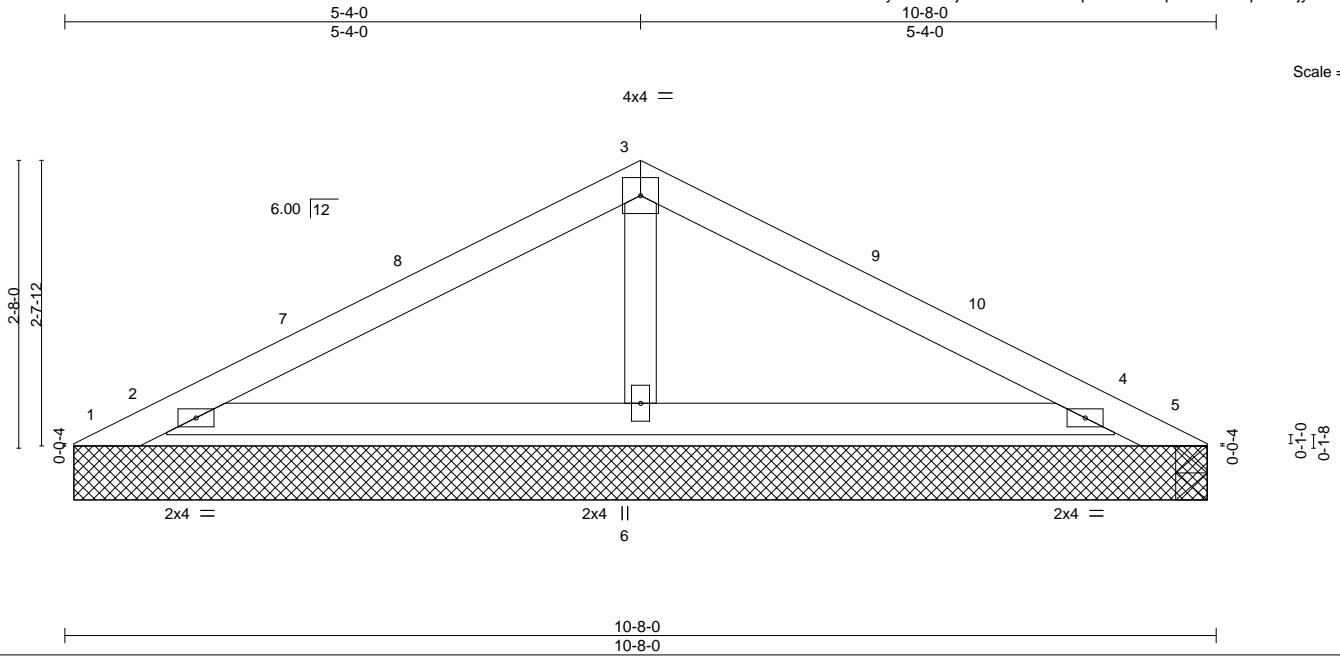
August 1, 2019

Job 21437A	Truss PB2	Truss Type PIGGYBACK	Qty 3	Ply 1	140.1582.A.10x25cvc	137998105
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:11 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-kkjmKpBCXpNmN6p6vNbwUpb5ueJseRpTilxSjysW2E



Scale = 1:21.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.01	4-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	-0.02	4-6	>999	180		
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: 33 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 10-6-0.
 (lb) - Max Horz 1=-44(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=-210(LC 1), 5=-146(LC 1), 2=-218(LC 12), 4=-174(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=457(LC 1), 4=406(LC 1), 6=300(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-11 to 3-4-11, Interior(1) 3-4-11 to 5-4-0, Exterior(2) 5-4-0 to 8-4-0, Interior(1) 8-4-0 to 10-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 1, 146 lb uplift at joint 5, 218 lb uplift at joint 2 and 174 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 21437A	Truss PG	Truss Type HIP GIRDER	Qty 1	Ply 1	140.1582.A.10x25cvp	137998106
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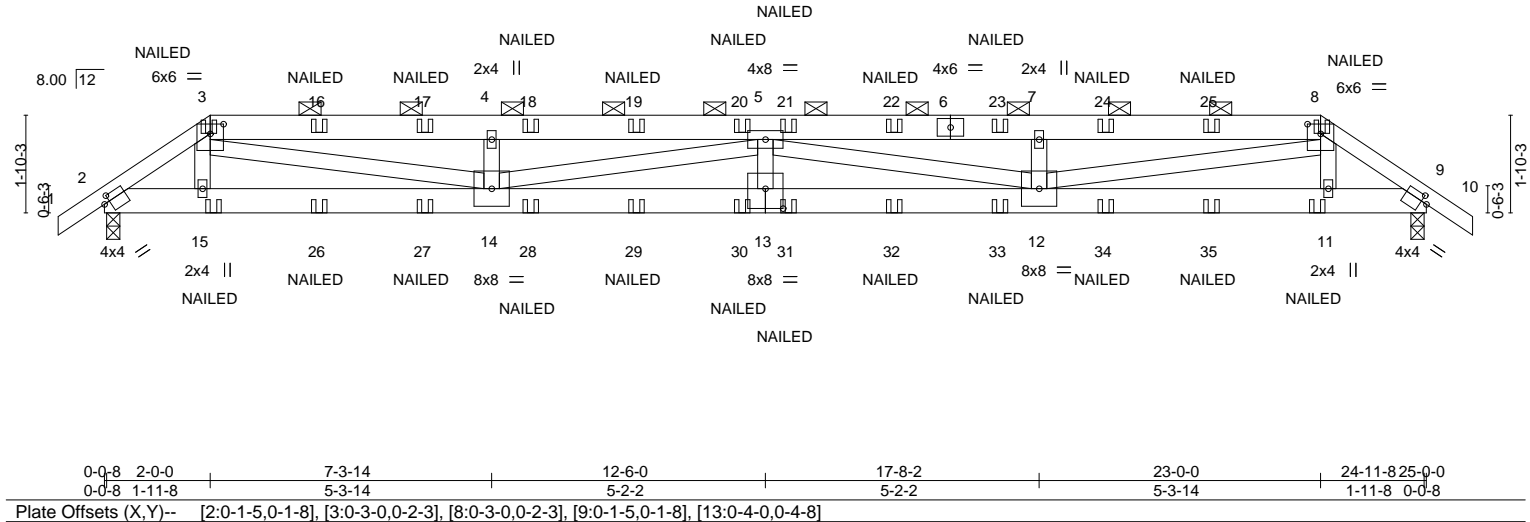
84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:14 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-9JOUmRd4pK9KEaYhavkdY6R3L6b73n4F9gXc32ysW2B

-0-10-8	2-0-0	7-3-14	12-6-0	17-8-2	23-0-0	25-0-0	25-10-8
0-10-8	2-0-0	5-3-14	5-2-2	5-2-2	5-3-14	2-0-0	0-10-8

Scale = 1:43.6



0-0-8	2-0-0	7-3-14	12-6-0	17-8-2	23-0-0	24-11-8	25-0-0
0-0-8	1-11-8	5-3-14	5-2-2	5-2-2	5-3-14	1-11-8	0-0-8

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	0.45	13	>654	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.56	13	>529	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.94	Horz(CT)	0.06	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 156 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-6,6-8: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-13 oc purlins, except
BOT CHORD 2x6 SP DSS	2-0-0 oc purlins (3-4-2 max.): 3-8.
WEBS 2x4 SP No.3 *Except* 3-14,8-12: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 4-7-1 oc bracing.

REACTIONS. (lb/size) 2=1214/0-3-0, 9=1214/0-3-0
Max Horz 2=47(LC 11)
Max Uplift 2=-557(LC 9), 9=-557(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1970/1365, 3-4=-4042/2832, 4-5=-4041/2832, 5-7=-4040/2831, 7-8=-4042/2832, 8-9=-1970/1366
BOT CHORD 2-15=-1048/1560, 14-15=-1030/1538, 13-14=-3449/5020, 12-13=-3449/5020, 11-12=-1027/1538, 9-11=-1046/1560
WEBS 3-15=-228/327, 3-14=-1797/2594, 4-14=-365/206, 5-14=-1015/719, 5-13=-167/280, 5-12=-1015/718, 7-12=-365/207, 8-12=-1797/2594, 8-11=-228/327

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 6-2-10, Interior(1) 6-2-10 to 23-0-5, Exterior(2) 23-0-5 to 25-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-8=-60, 8-10=-60, 2-9=-20



Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 21437A	Truss PG	Truss Type HIP GIRDER	Qty 1	Ply 1	140.1582.A.10x25cvp Job Reference (optional)	I37998106
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:14 2019 Page 2
ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-9JOUmRd4pK9KEaYhavkdY6R3L6b73n4F9gXc32ysW2B

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-14(F) 8=-14(F) 15=-41(F) 11=-41(F) 16=-14(F) 17=-14(F) 18=-14(F) 19=-14(F) 20=-14(F) 21=-14(F) 22=-14(F) 23=-14(F) 24=-14(F) 25=-14(F) 26=-8(F)
27=-8(F) 28=-8(F) 29=-8(F) 30=-8(F) 31=-8(F) 32=-8(F) 33=-8(F) 34=-8(F) 35=-8(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

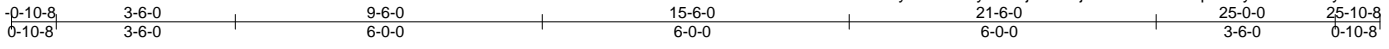
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 21437A	Truss PH1	Truss Type HIP	Qty 1	Ply 1	140.1582.A.10x25cvp	137998107
84 Components (Dunn), Dunn, NC - 28334,					8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:15 2019 Page 1	

ID:RUSz4LGuFS2C1bODNZWBAzyX6cZ-dWyGanejadHBSj6u8dFs4KzCoVp0oMyOOGK9bUysW2A



Scale = 1:45.0

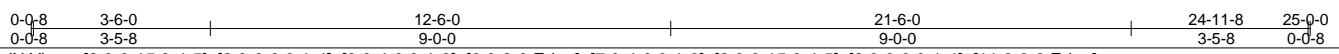
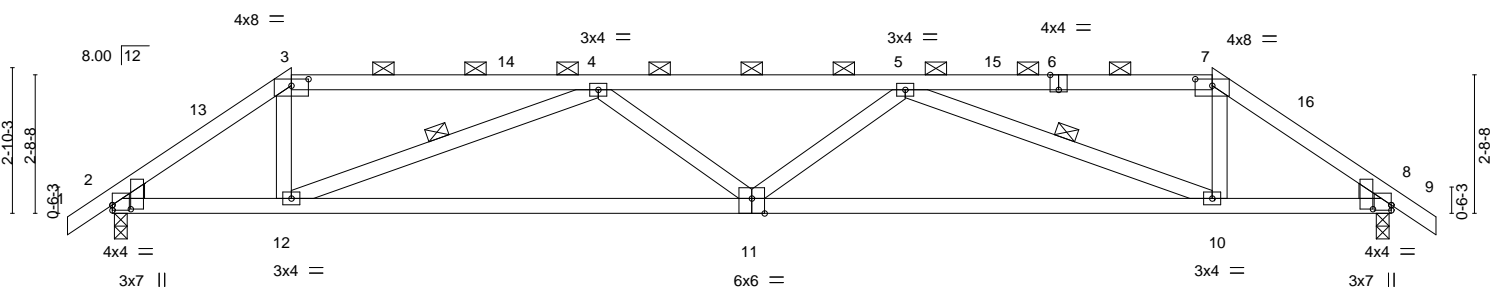


Plate Offsets (X,Y)-- [2:0-0-15,0-4-5], [2:0-0-0,0-1-4], [3:0-4-0,0-1-9], [6:0-2-0,Edge], [7:0-4-0,0-1-9], [8:0-0-15,0-4-5], [8:0-0-0,0-1-4], [11:0-3-0,Edge]

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 0.56	Vert(LL)	0.32	10-11	>931	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.98	Vert(CT)	-0.39	10-11	>756		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.09	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 118 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (3-4-10 max.); 3-7.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEDGE	WEBS 1 Row at midpt 4-12, 5-10
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1050/0-3-0, 8=1050/0-3-0
 Max Horz 2=71(LC 11)
 Max Uplift 2=-348(LC 9), 8=-348(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1579/1077, 3-4=-1194/867, 4-5=-2541/1787, 5-7=-1194/867, 7-8=-1580/1078
 BOT CHORD 2-12=-796/1230, 11-12=-1510/2420, 10-11=-1511/2426, 8-10=-794/1232
 WEBS 3-12=-528/644, 4-12=-1346/801, 4-11=-246/311, 5-11=-240/305, 5-10=-1351/804, 7-10=-529/644

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; 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 3-6-0, Exterior(2) 3-6-0 to 7-8-15, Interior(1) 7-8-15 to 21-6-0, Exterior(2) 21-6-0 to 25-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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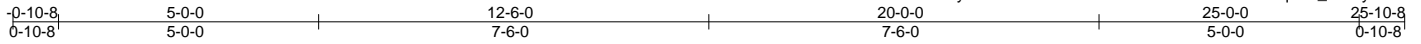
818 Soundside Road
 Edenton, NC 27932

Job 21437A	Truss PH2	Truss Type HIP	Qty 1	Ply 1	140.1582.A.10x25cvp	137998108
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:16 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-5iWfn7fLLxP2Th4iKm5dXWJ?vEbXqvYd_0i7wysW29



Scale = 1:44.3

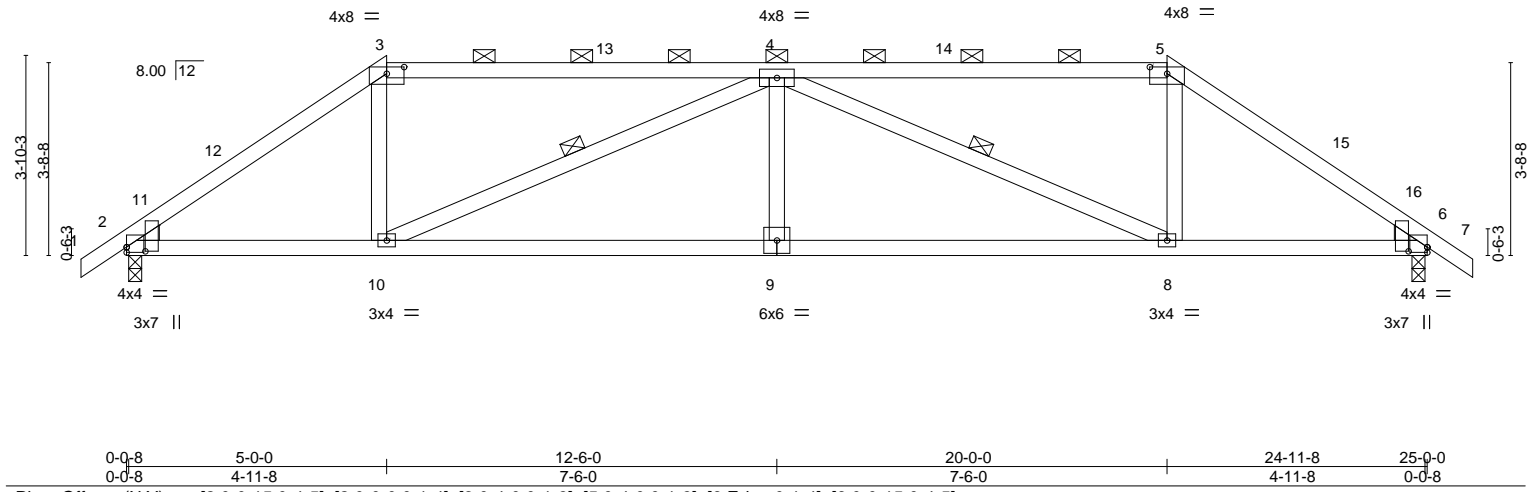


Plate Offsets (X,Y)-- [2:0-0-15,0-4-5], [2:0-0-0,0-1-4], [3:0-4-0,0-1-9], [5:0-4-0,0-1-9], [6:Edge,0-1-4], [6:0-0-15,0-4-5]

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 0.79	Vert(LL)	0.17	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.70	Vert(CT)	-0.21	9-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.07	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 120 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-10 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (4-2-13 max.); 3-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 5-2-7 oc bracing.
WEDGE	WEBS 1 Row at midpt 4-10, 4-8
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1050/0-3-0, 6=1050/0-3-0
 Max Horz 2=-96(LC 10)
 Max Uplift 2=-314(LC 9), 6=-314(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1512/994, 3-4=-1149/835, 4-5=-1149/835, 5-6=-1512/994
 BOT CHORD 2-10=-719/1167, 9-10=-1191/1911, 8-9=-1191/1911, 6-8=-721/1167
 WEBS 3-10=-436/524, 4-10=-892/538, 4-9=-240/318, 4-8=-892/538, 5-8=-436/524

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; 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 5-0-0, Exterior(2) 5-0-0 to 9-2-15, Interior(1) 9-2-15 to 20-0-0, Exterior(2) 20-0-0 to 24-2-15, Interior(1) 24-2-15 to 25-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 1, 2019

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ENGINEERING BY
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818 Soundside Road
 Edenton, NC 27932

Job 21437A	Truss PH3	Truss Type HIP	Qty 1	Ply 1	140.1582.A.10x25cvp	137998109
84 Components (Dunn), Dunn, NC - 28334,					8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:17 2019 Page 1	
ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-Zu41_Tgz6FXv51GGF2IK9l3URJapGDshreIGgMysW28					Job Reference (optional)	



Scale = 1:44.2

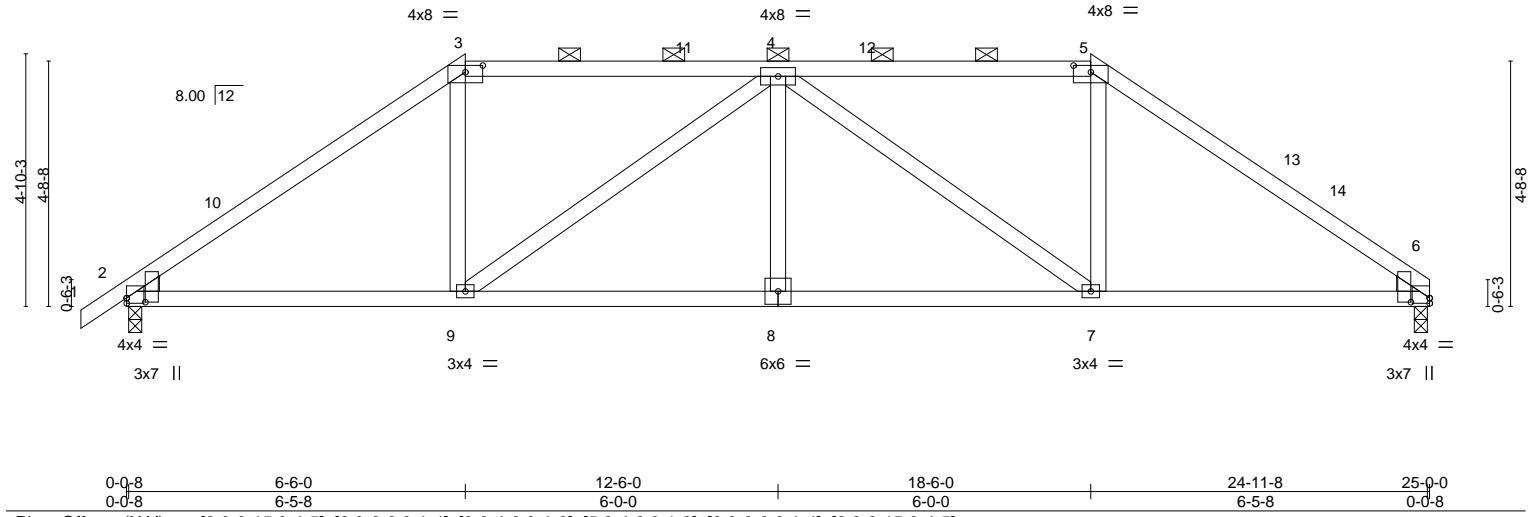


Plate Offsets (X,Y)-- [2:0-0-15,0-4-5], [2:0-0-0,0-1-4], [3:0-4-0,0-1-9], [5:0-4-0,0-1-9], [6:0-0-0,0-1-4], [6:0-0-15,0-4-5]

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 0.81	Vert(LL) 0.11	2-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.70	Vert(CT) -0.12	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT) 0.05	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 122 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (5-2-5 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 6-1-7 oc bracing.

REACTIONS. (lb/size) 2=1051/0-3-0, 6=989/0-3-0
Max Horz 2=117(LC 9)
Max Uplift 2=-277(LC 9), 6=-272(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1445/929, 3-4=-1083/811, 4-5=-1087/810, 5-6=-1446/937
BOT CHORD 2-9=-676/1095, 8-9=-883/1437, 7-8=-883/1437, 6-7=-675/1099
WEBS 3-9=-384/464, 4-9=-515/279, 4-7=-512/272, 5-7=-382/464

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; 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 6-6-0, Exterior(2) 6-6-0 to 10-8-15, Interior(1) 10-8-15 to 18-6-0, Exterior(2) 18-6-0 to 22-8-15, Interior(1) 22-8-15 to 24-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

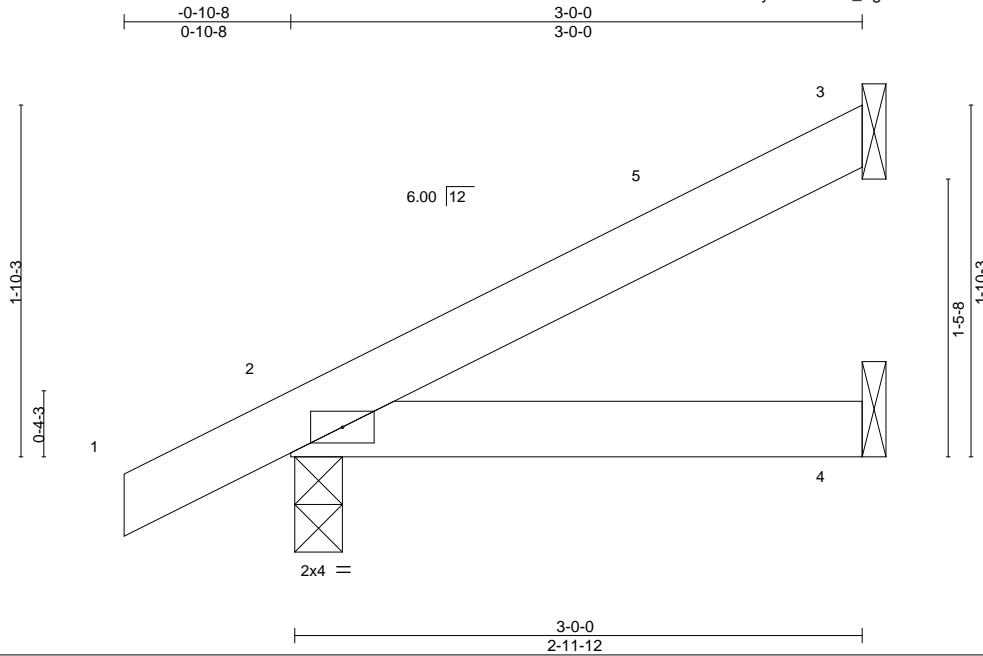


Job 21437A	Truss PJ1	Truss Type JACK-OPEN	Qty 10	Ply 1	140.1582.A.10x25cvp	137998110
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:17 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-Zu41_Tgz6FXv51GGF2IK9I3e0JLGLYhrelGgMysW28



Scale: 1"=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 0.13	Vert(LL)	0.01	2-4	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.01	2-4	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						
								Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 3=74/Mechanical, 2=183/0-3-0, 4=28/Mechanical
Max Horz 2=71(LC 12)
Max Uplift 3=-48(LC 12), 2=-31(LC 12), 4=-9(LC 8)
Max Grav 3=74(LC 1), 2=183(LC 1), 4=56(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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 2-11-4 zone; 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 48 lb uplift at joint 3 and 9 lb uplift at joint 4.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



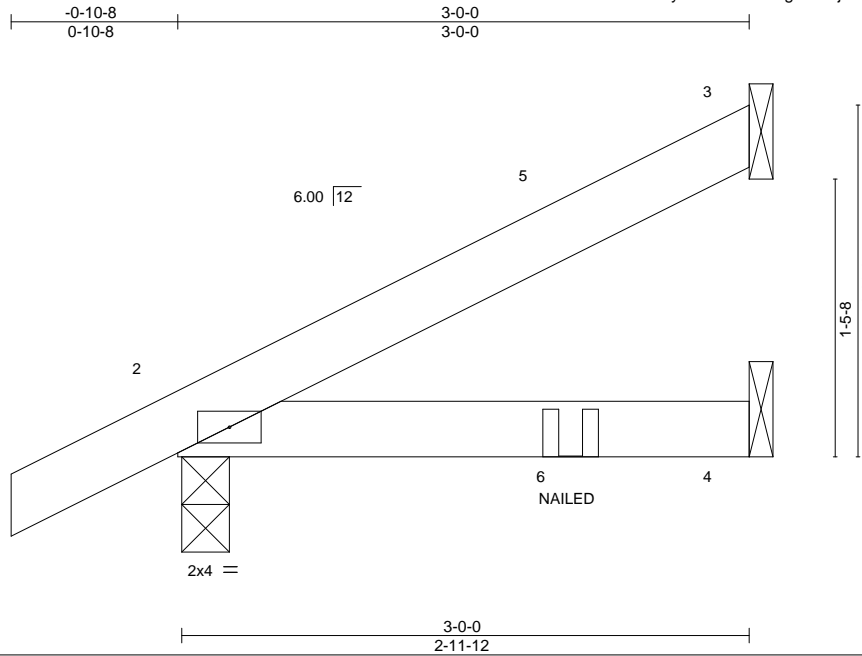
818 Soundside Road
Edenton, NC 27932

Job 21437A	Truss PJ2	Truss Type JACK-OPEN GIRDER	Qty 2	Ply 1	140.1582.A.10x25cvp	137998111
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:18 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-15ePCogbtYfmjBrSplpZiybpUj31?oor4IvPcypsW27



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	0.01	2-4	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.01	2-4	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 11 lb	FT = 20%

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

REACTIONS. (lb/size) 3=74/Mechanical, 2=198/0-3-0, 4=61/Mechanical
 Max Horz 2=71(LC 12)
 Max Uplift 3=-48(LC 12), 2=-46(LC 12), 4=-32(LC 8)
 Max Grav 3=74(LC 1), 2=198(LC 1), 4=68(LC 3)

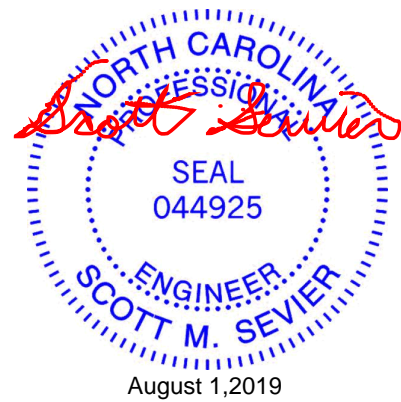
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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 2-11-4 zone; 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 48 lb uplift at joint 3 and 32 lb uplift at joint 4.
 - 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - 7) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)
 Vert: 1-3=-60, 2-4=-20
 Concentrated Loads (lb)
 Vert: 6=-48(B)

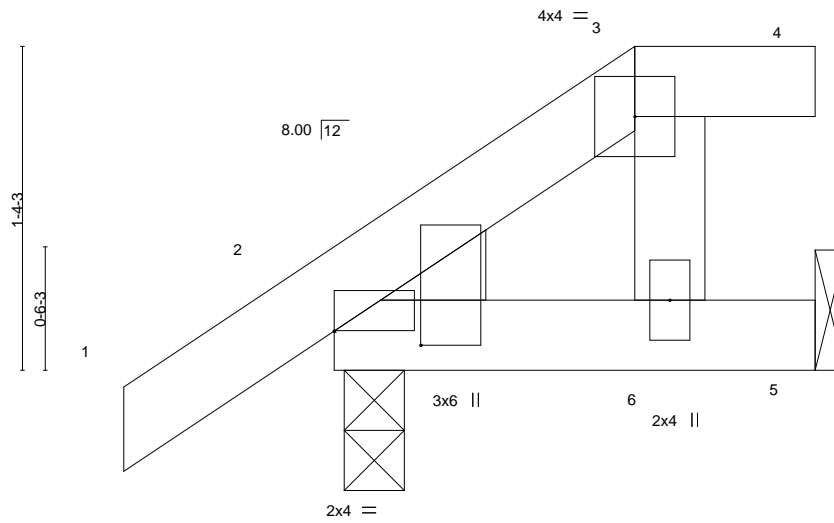
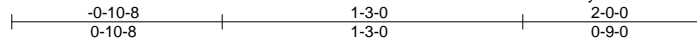


Job 21437A	Truss PJ3	Truss Type HALF HIP	Qty 2	Ply 1	140.1582.A.10x25cvp	137998112
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:19 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-VHCnP8hDesndKLQfNTKoEA80g7OqkFj_JyEMkFysW26



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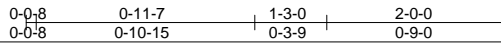


Plate Offsets (X,Y)--	[2:0-0-0,0-0-0], [2:0-0-11,0-4-5]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) 0.00 6 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.00 6 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 10 lb	FT = 20%

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

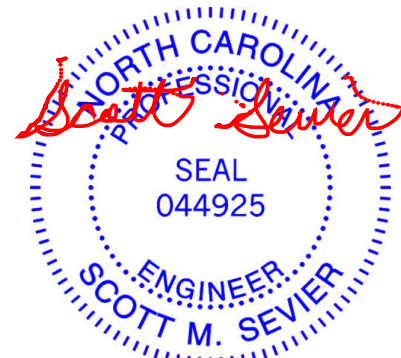
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=145/0-3-0, 5=67/Mechanical
 Max Horz 2=53(LC 12)
 Max Uplift 2=-25(LC 12), 5=-39(LC 9)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 5.
- 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 21437A	Truss T7	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	140.1582.A.10x25cwp	137998113
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:20 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-zTl9dUirPAvUyV?rxAr1nNh_cWaLTUG7Yc_wHhynW25



Scale = 1:87.2

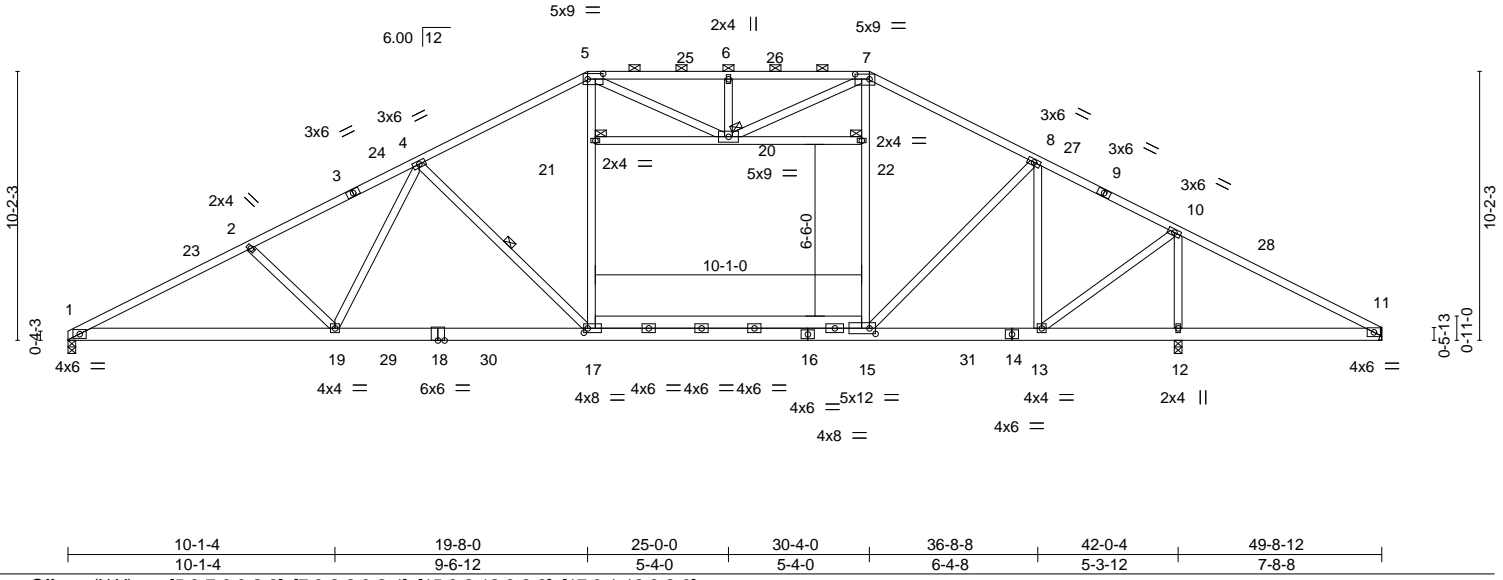


Plate Offsets (X,Y)--	[5:0-7-0,0-2-8], [7:0-6-8,0-2-4], [15:0-2-12,0-2-8], [17:0-1-12,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.88	Vert(LL)	-0.56	17-19	>901	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.99	17-19	>510		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.09	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Attic	-0.30	15-17	414	Weight: 350 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-3: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-9-9 max.): 5-7.
BOT CHORD 2x6 SP DSS *Except* 15-17: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-8-5 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-17,7-15: 2x4 SP No.2	WEBS 1 Row at midpt 4-17
	JOINTS 1 Brace at Jt(s): 20, 21, 22

REACTIONS. (lb/size) 1=1834/0-3-8, 12=1283/0-3-8, 11=948/Mechanical
 Max Horz 1=164(LC 12)
 Max Uplift 1=-198(LC 12), 12=-337(LC 13), 11=-184(LC 12)
 Max Grav 1=1985(LC 2), 12=1649(LC 27), 11=1040(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-4013/467, 2-4=-3770/454, 4-5=-2859/411, 5-6=-2836/514, 6-7=-2837/514,
 7-8=-2783/417, 8-10=-2501/362, 10-11=-2035/441
 BOT CHORD 1-19=-452/3522, 17-19=-258/3019, 15-17=-82/2455, 13-15=-133/2175, 12-13=-331/1780,
 11-12=-331/1780
 WEBS 2-19=-373/232, 4-19=-72/682, 4-17=-834/283, 17-21=-27/861, 5-21=-17/890,
 6-20=-337/162, 7-20=-154/586, 15-22=-52/719, 7-22=-40/739, 8-15=-12/418,
 8-13=-715/179, 10-13=-150/1057, 10-12=-1398/409, 5-20=-162/414

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 5-1-7, Interior(1) 5-1-7 to 19-8-0, Exterior(2) 19-8-0 to 26-8-6, Interior(1) 26-8-6 to 30-4-0, Exterior(2) 30-4-0 to 37-4-6, Interior(1) 37-4-6 to 49-8-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 20-21, 20-22
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-17
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 11.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 12. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



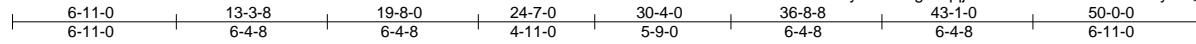
Job 21437A	Truss T8	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	140.1582.A.10x25cvp	137998114
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84 Components (Dunn), Dunn, NC - 28334,

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ID:RUSz4LGuFS2C1bODNZWbaZyX6cZ-RgJYqqjTAT1Laea1UtMGkbD9awyfCz_HmGjTp8ysW24

Job Reference (optional)



Scale = 1:97.3

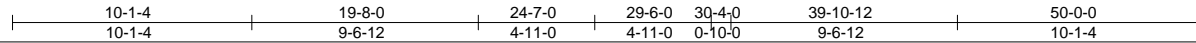
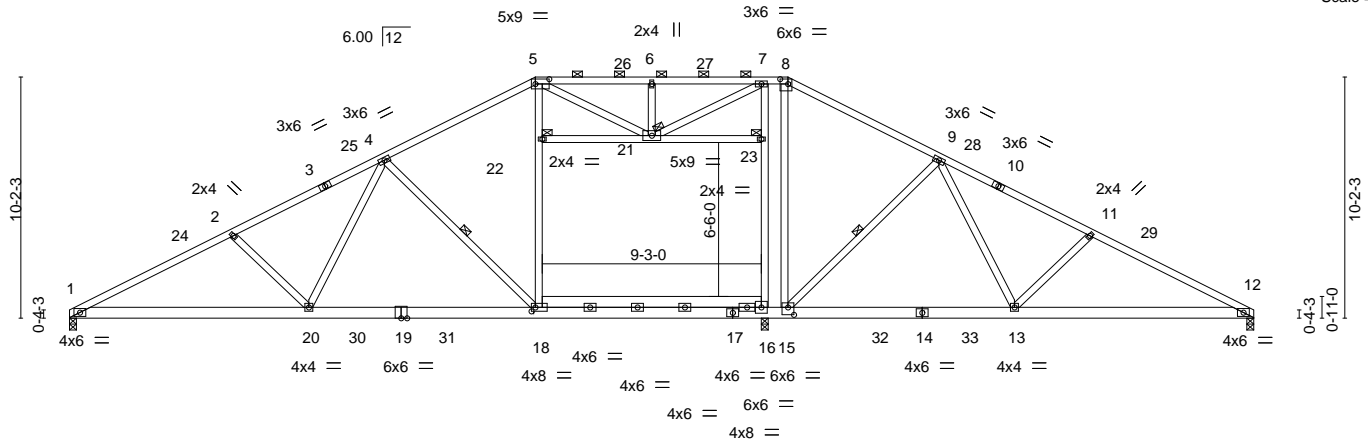


Plate Offsets (X, Y)--	[5:0-7-0,0-2-8], [8:0-4-0,0-2-8], [15:0-3-0,0-3-12], [18:0-2-0,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.87	Vert(LL) -0.53 18-20 >667 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.96 18-20 >366 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.80	Horz(CT) 0.10 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Attic -0.24 16-18 475 360	Weight: 354 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-3,10-12: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-0-12 max.): 5-8.
BOT CHORD 2x6 SP DSS *Except* 16-18: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-18,8-15,7-16: 2x4 SP No.2	WEBS 1 Row at midpt 4-18, 9-15
	JOINTS 1 Brace at Jt(s): 21, 22, 23

REACTIONS. (lb/size) 1=1812/0-3-8, 16=546/0-3-8, 12=1715/0-3-8
 Max Horz 1=164(LC 12)
 Max Uplift 1=-233(LC 12), 16=-217(LC 13), 12=-97(LC 12)
 Max Grav 1=1980(LC 26), 16=829(LC 25), 12=1838(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-4002/490, 2-4=-3759/477, 4-5=-2850/440, 5-6=-2770/519, 6-7=-2769/520,
 7-8=-2419/434, 8-9=-2709/448, 9-11=-3371/463, 11-12=-3620/489
 BOT CHORD 1-20=-518/3512, 18-20=-331/3010, 16-18=-136/2446, 15-16=-133/2418, 13-15=-213/2754,
 12-13=-354/3174
 WEBS 2-20=-373/232, 4-20=-57/670, 4-18=-818/272, 18-22=-62/892, 5-22=-53/921,
 6-21=-310/144, 7-21=-119/514, 8-15=-109/999, 9-15=-693/271, 9-13=-60/538,
 11-13=-390/235, 5-21=-132/316, 16-23=-381/124, 7-23=-359/134

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 5-1-12, Interior(1) 5-1-12 to 19-8-0, Exterior(2) 19-8-0 to 26-8-14, Interior(1) 26-8-14 to 30-4-0, Exterior(2) 30-4-0 to 37-4-14, Interior(1) 37-4-14 to 49-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 21-22, 21-23
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 16-18
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 16, and 12. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

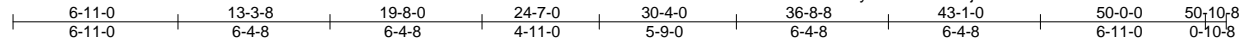
818 Soundside Road
 Edenton, NC 27932

Job 21437A	Truss T9	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	140.1582.A.10x25cvp	137998115
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:22 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-wstw2Aj6xn9CBo9E2btVsomKQKlSxPdQ?wT1LaysW23



Scale: 1/8"=1'

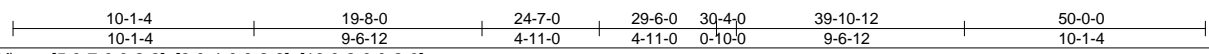
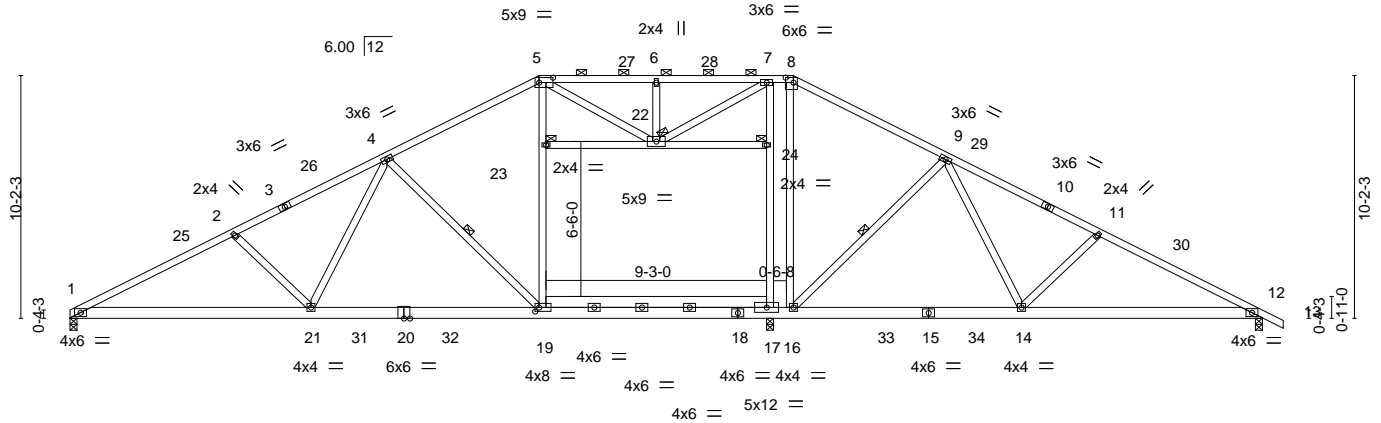


Plate Offsets (X,Y)-- [5:0-7-0,0-2-8], [8:0-4-0,0-2-8], [19:0-2-0,0-2-0]

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 0.86	Vert(LL)	-0.53	19-21	>657	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.97	19-21	>360		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.10	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Attic	-0.49	17-19	467	Weight: 357 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-3: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-1-9 max.): 5-8.
BOT CHORD 2x6 SP DSS *Except* 17-19: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-19,8-16,7-17: 2x4 SP No.2	WEBS 1 Row at midpt 4-19, 9-16 JOINTS 1 Brace at Jt(s): 22, 23, 24

REACTIONS. (lb/size) 1=1803/0-3-8, 17=564/0-3-8, 12=1765/0-3-8
 Max Horz 1=-180(LC 17)
 Max Uplift 1=-233(LC 12), 17=-214(LC 13), 12=-101(LC 12)
 Max Grav 1=1970(LC 26), 17=841(LC 25), 12=1877(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-3982/490, 2-4=-3739/477, 4-5=-2827/440, 5-6=-2716/512, 6-7=-2716/512,
 7-8=-2393/433, 8-9=-2680/448, 9-11=-3335/448, 11-12=-3581/466
 BOT CHORD 1-21=-510/3494, 19-21=-322/2991, 17-19=-127/2423, 16-17=-124/2392, 14-16=-182/2726,
 12-14=-298/3135
 WEBS 2-21=-373/232, 4-21=-57/673, 4-19=-821/273, 19-23=-62/888, 5-23=-53/916,
 5-22=-122/286, 7-22=-110/486, 8-16=-110/984, 9-16=-692/273, 9-14=-58/534,
 11-14=-376/224, 17-24=-384/123, 7-24=-362/133, 6-22=-313/144

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 5-1-12, Interior(1) 5-1-12 to 19-8-0, Exterior(2) 19-8-0 to 26-8-14, Interior(1) 26-8-14 to 30-4-0, Exterior(2) 30-4-0 to 37-4-14, Interior(1) 37-4-14 to 50-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s). 22-23, 22-24
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 17-19
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 17, and 12. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

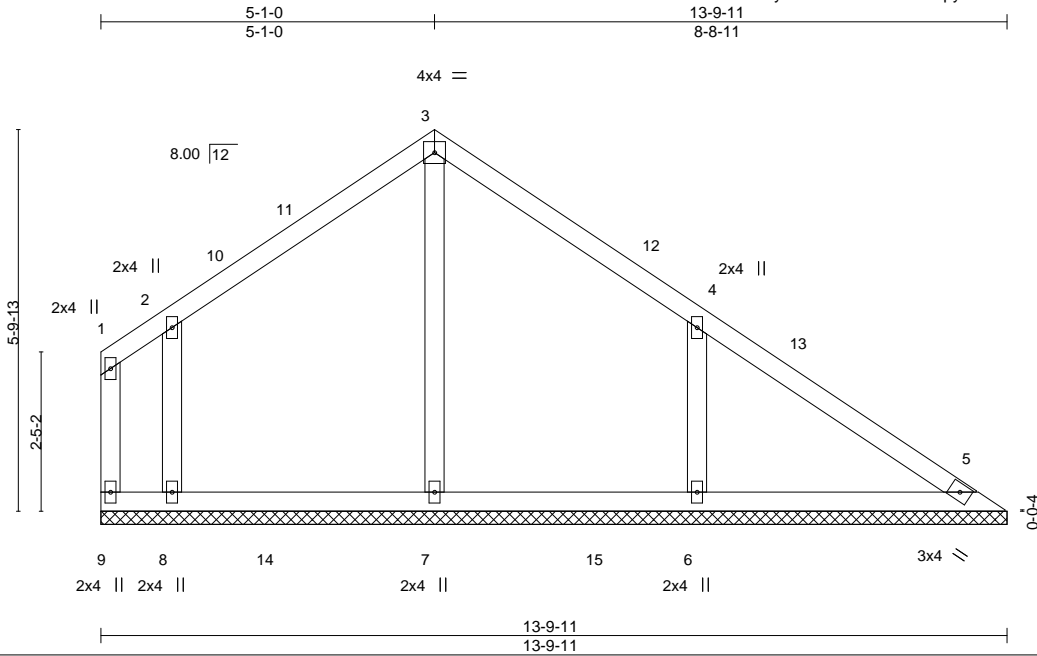


818 Soundside Road
Edenton, NC 27932

Job 21437A	Truss V1	Truss Type GABLE	Qty 1	Ply 1	140.1582.A.10x25cvp	137998116
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:23 2019 Page 1
ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-O2RIFWkki5H3pykQclOkP0JeYKng24aEaCat0ysW22



Scale = 1:35.1

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 0.26	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 63 lb	FT = 20%

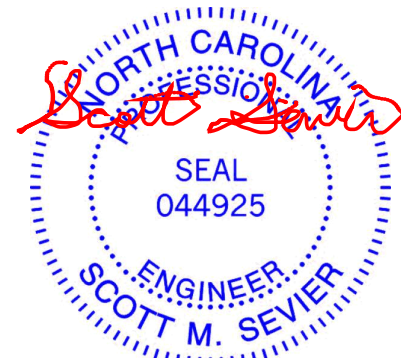
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 13-9-11.
(lb) - Max Horz 9=-140(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 5 except 9=-108(LC 19), 8=-147(LC 12), 6=-162(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 9, 5 except 7=403(LC 20), 8=386(LC 19), 6=436(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-273/186, 4-6=-315/209

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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 5-1-0, Exterior(2) 5-1-0 to 8-1-0, Interior(1) 8-1-0 to 13-3-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 9=108, 8=147, 6=162.



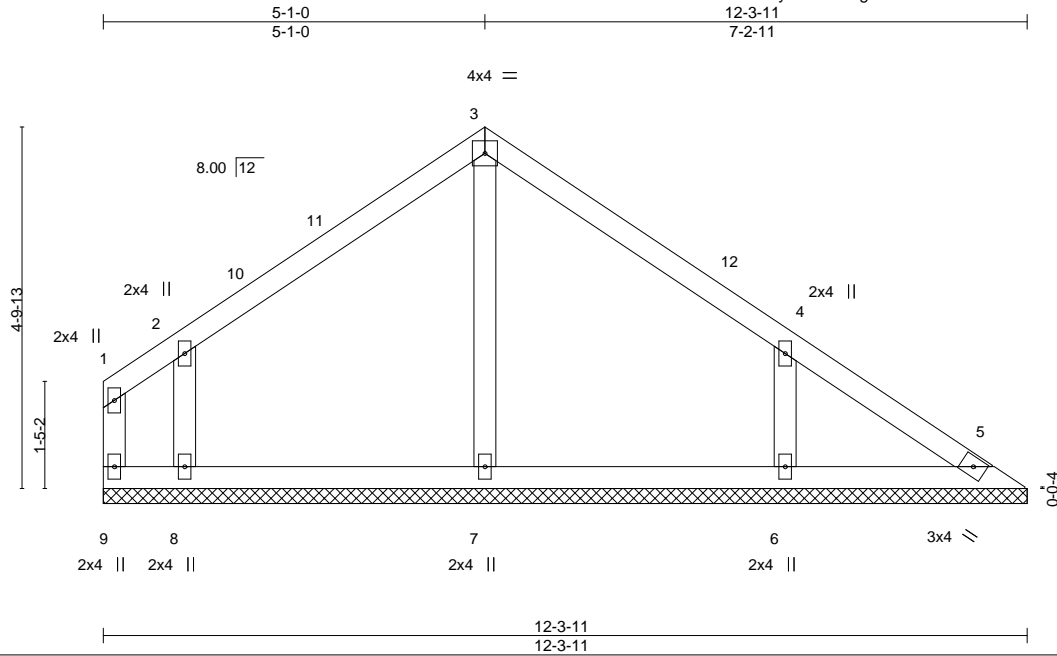
August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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

Job 21437A	Truss V2	Truss Type GABLE	Qty 1	Ply 1	140.1582.A.10x25cvp	I37998117
84 Components (Dunn), Dunn, NC - 28334,					Job Reference (optional)	

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:24 2019 Page 1
 ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-sF?gSslMTOQvR6icA0wzxDrO86aPVijSEy7QSysW21



Scale = 1:30.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	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 0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 52 lb	FT = 20%

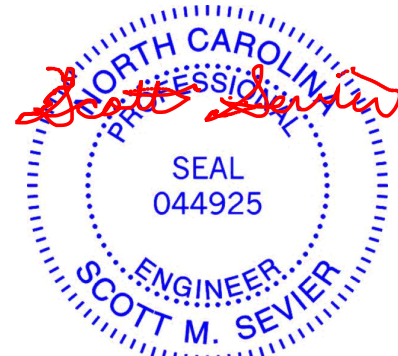
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 12-3-11.
 (lb) - Max Horz 9=-108(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 5 except 8=-160(LC 12), 6=-134(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 9, 5 except 7=301(LC 1), 8=351(LC 19), 6=339(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-276/193, 4-6=-263/176

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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 5-1-0, Exterior(2) 5-1-0 to 8-1-0, Interior(1) 8-1-0 to 11-9-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 5 except (jt=lb) 8=160, 6=134.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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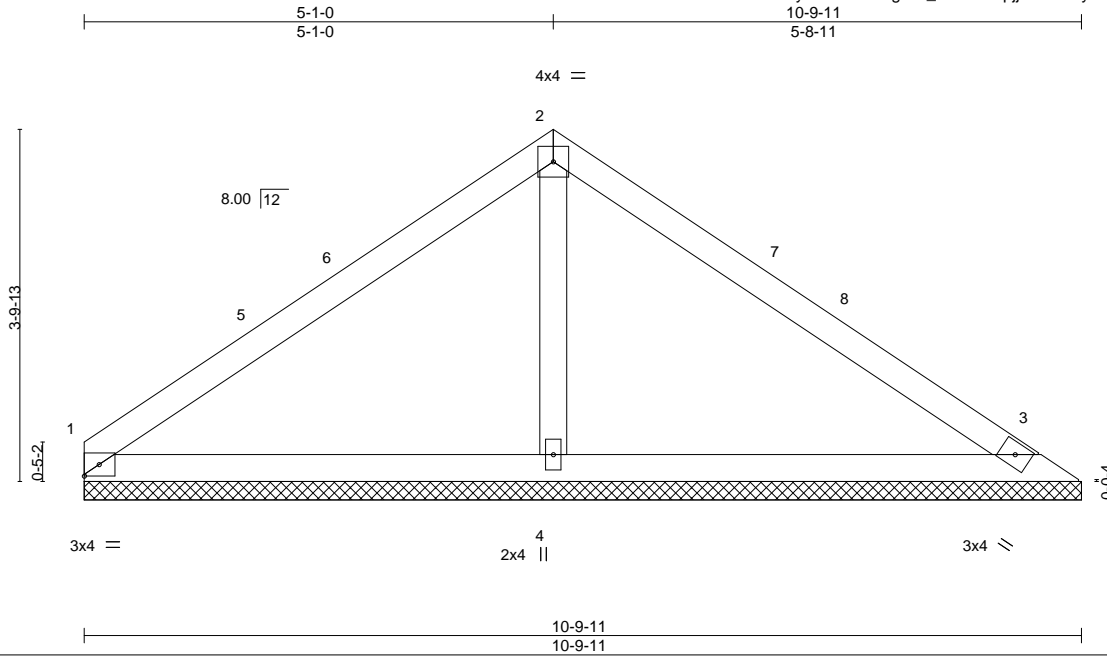
818 Soundside Road
 Edenton, NC 27932

Job 21437A	Truss V3	Truss Type GABLE	Qty 1	Ply 1	140.1582.A.10x25cvp	137998118
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:25 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-KRZ2gCm_EiYm2GtpjjRCUOysXPR8yLthuhhyvysW20



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 0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 40 lb	FT = 20%

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

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

REACTIONS. (lb/size) 1=201/10-9-11, 3=207/10-9-11, 4=418/10-9-11
 Max Horz 1=-86(LC 10)
 Max Uplift 1=-37(LC 12), 3=-50(LC 13), 4=-13(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-265/83

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-1-0, Exterior(2) 5-1-0 to 8-1-0, Interior(1) 8-1-0 to 10-3-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

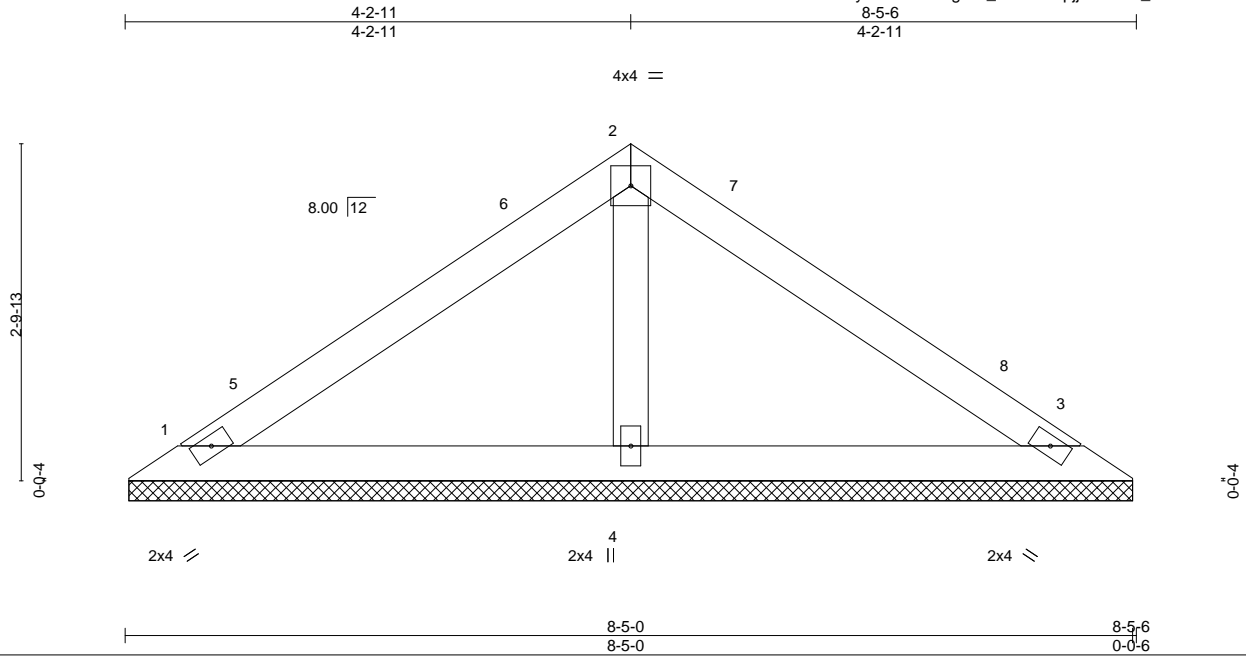


Job 21437A	Truss V4	Truss Type VALLEY	Qty 1	Ply 1	140.1582.A.10x25cvp	137998119
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:25 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWbaZyX6cZ-KRZ2gCm_EiYm2GtpjjRCURO_wXRP8zvtuhhyvysW20



Scale = 1:19.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 29 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. (lb/size) 1=162/8-4-10, 3=162/8-4-10, 4=276/8-4-10
 Max Horz 1=-62(LC 8)
 Max Uplift 1=-36(LC 12), 3=-44(LC 13)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-2-11, Exterior(2) 4-2-11 to 7-2-11, Interior(1) 7-2-11 to 7-11-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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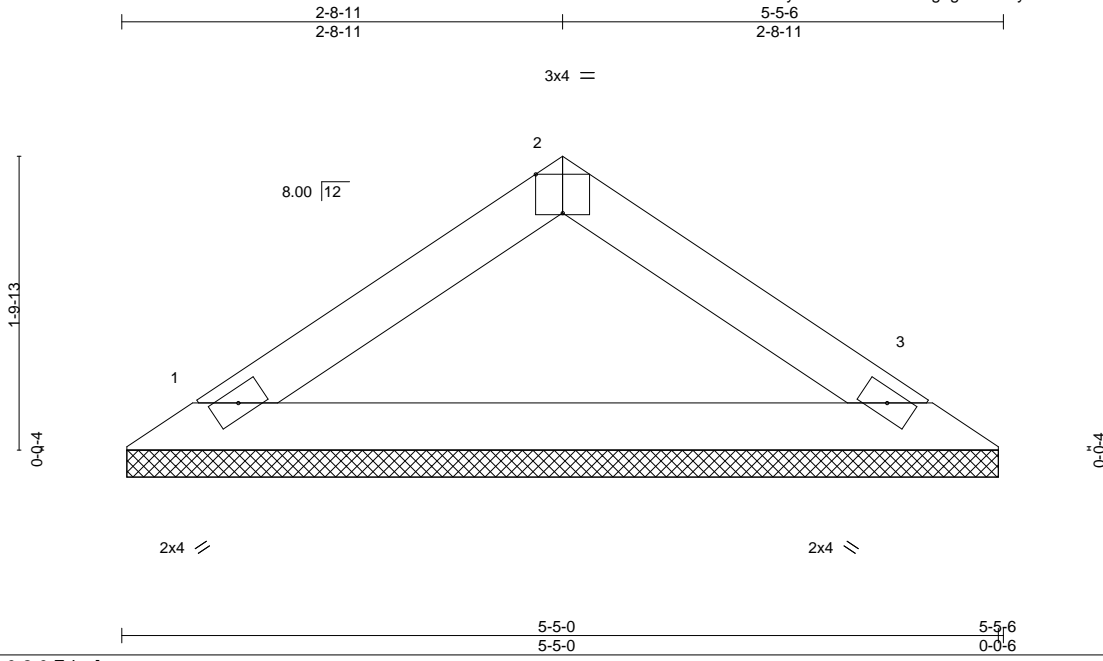
818 Soundside Road
 Edenton, NC 27932

Job 21437A	Truss V5	Truss Type VALLEY	Qty 1	Ply 1	140.1582.A.10x25cvp	137998120
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:26 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-od7RtYnc?0gdgQS?HRyR1ewCTxIvtQn0wYREULysW2?



Scale = 1:14.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 16 lb	FT = 20%

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

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

REACTIONS. (lb/size) 1=179/5-4-10, 3=179/5-4-10
Max Horz 1=-37(LC 8)
Max Uplift 1=-19(LC 12), 3=-19(LC 13)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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.



August 1, 2019

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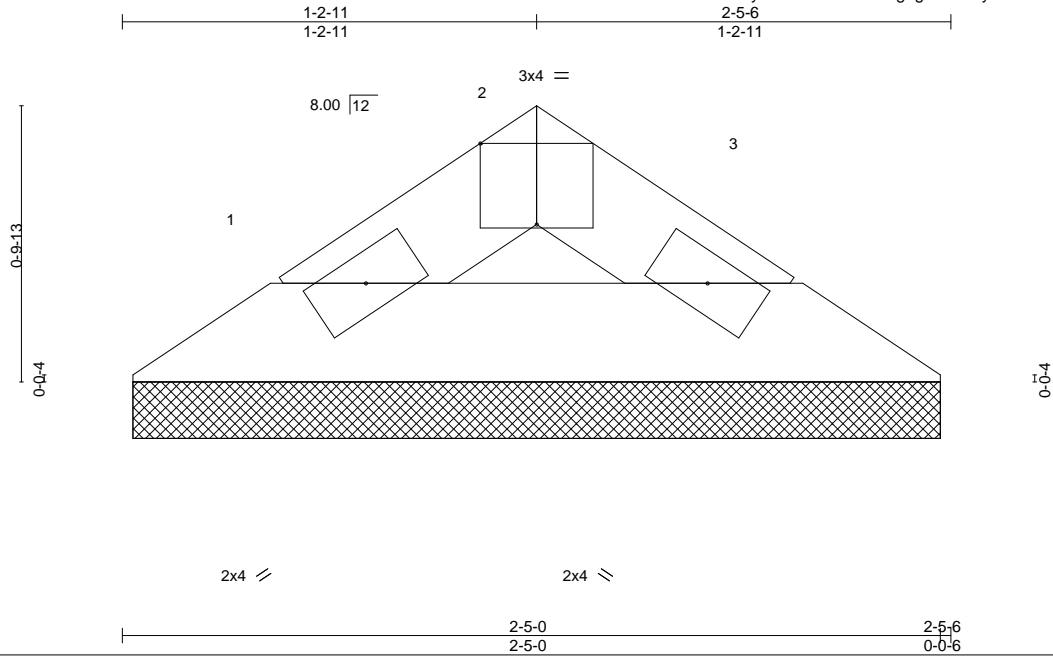
818 Soundside Road
Edenton, NC 27932

Job 21437A	Truss V6	Truss Type VALLEY	Qty 1	Ply 1	140.1582.A.10x25cvp	137998121
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:26 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWbAZyX6cZ-od7RtYnc?0gdgQS?HRyR1ewDdxoCtQn0wYREULysW2?



Scale = 1:6.8

Plate Offsets (X,Y)--	[2:0-2-0,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 0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 6 lb	FT = 20%

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

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

REACTIONS. (lb/size) 1=59/2-4-10, 3=59/2-4-10
Max Horz 1=-12(LC 8)
Max Uplift 1=-6(LC 12), 3=-6(LC 13)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



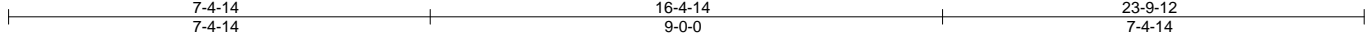
818 Soundside Road
Edenton, NC 27932

Job 21437A	Truss VP1	Truss Type GABLE	Qty 1	Ply 1	140.1582.A.10x25cvp	137998122
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:27 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-Gpgp5tnEIJoUIZ1Br8ThZsTLVL67csM99CAo0nysW2_



Scale = 1:40.5

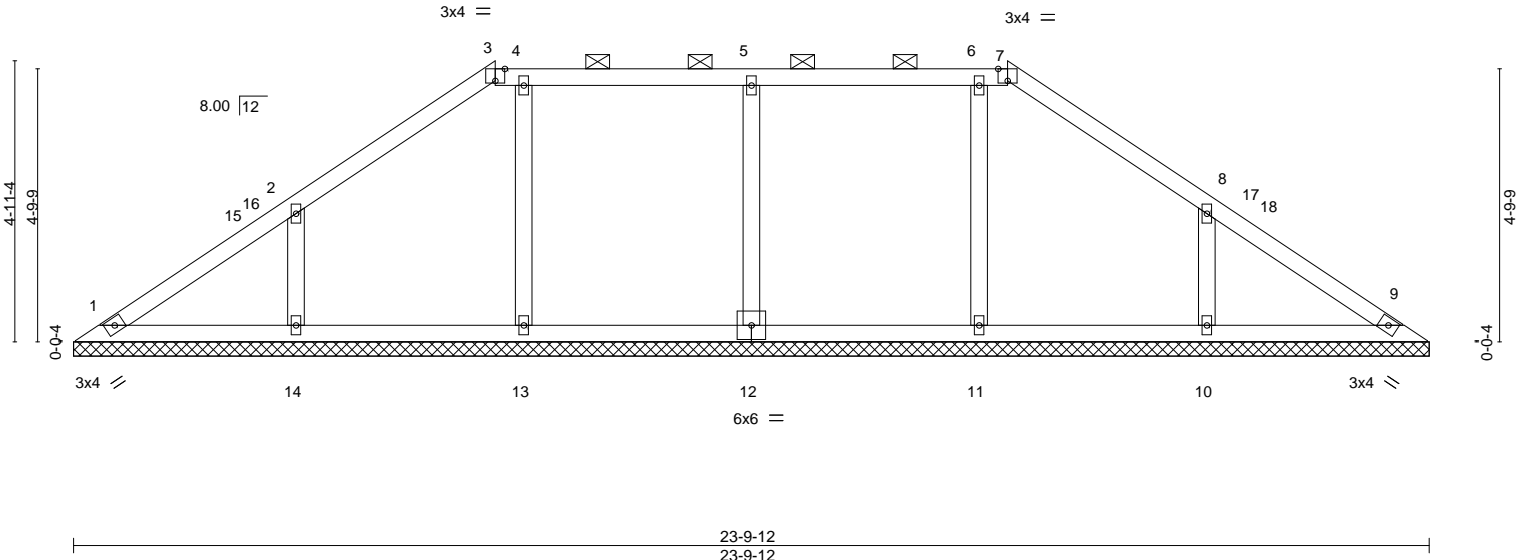


Plate Offsets (X,Y)--	[3:0-2-0,Edge], [7:0-2-0,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.00 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 98 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.): 3-7.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 23-9-12.
 (lb) - Max Horz 1=-112(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 13, 11 except 14=-132(LC 12), 10=-131(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 12=430(LC 25), 13=328(LC 25), 14=351(LC 19), 11=328(LC 26), 10=349(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-12=-256/124, 2-14=-270/176, 8-10=-268/174

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 7-4-14, Exterior(2) 7-4-14 to 11-10-14, Interior(1) 11-10-14 to 16-4-14, Exterior(2) 16-4-14 to 20-7-13, Interior(1) 20-7-13 to 23-4-0 zone; 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) Gable requires continuous bottom chord bearing.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
 - 9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12, 13, 14, 11, and 10. This connection is for uplift only and does not consider lateral forces.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 1, 2019

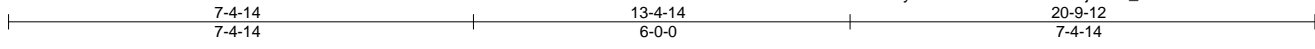
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 21437A	Truss VP2	Truss Type GABLE	Qty 1	Ply 1	140.1582.A.10x25cvp	137998123
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:28 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-k0EBIDosWdwLvjCNPs_w630XwISNLJoJNswLYEysW1z



Scale = 1:36.7

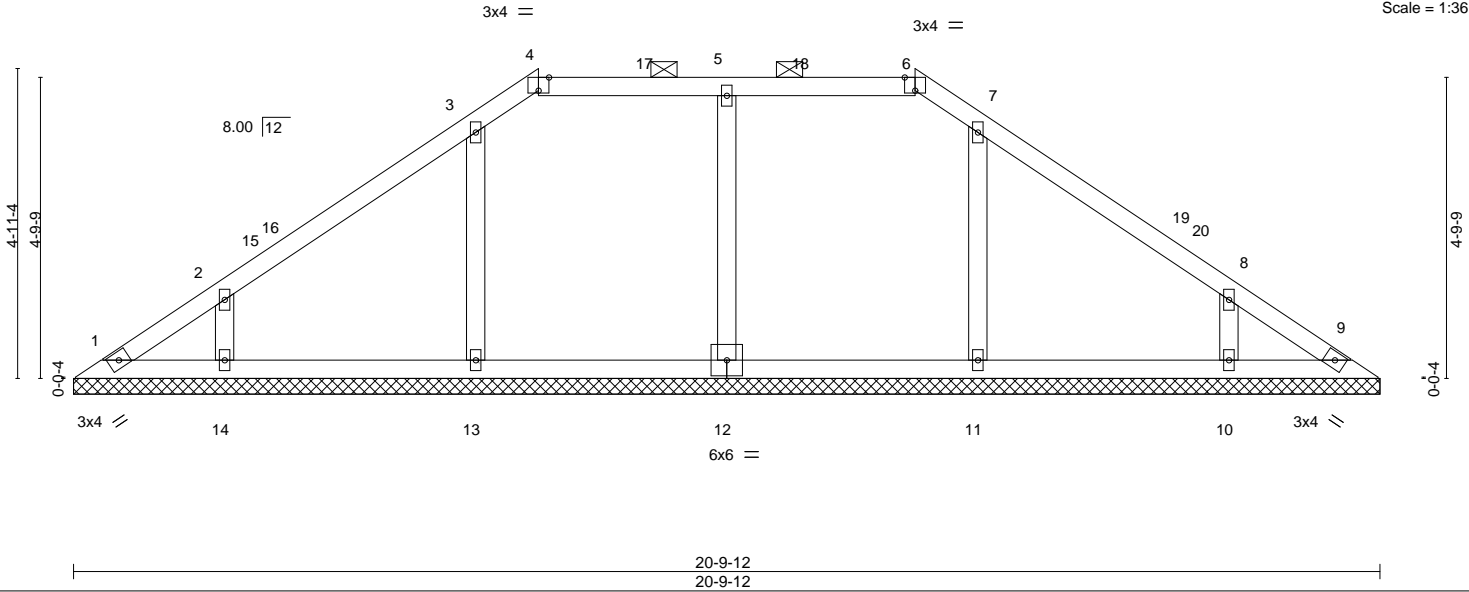


Plate Offsets (X,Y)--	[4:0-2-0,Edge], [6:0-2-0,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.00 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 85 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 20-9-12.
 (lb) - Max Horz 1=112(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 12, 13, 11 except 14=121(LC 12), 10=122(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 12=402(LC 25), 13=367(LC 19), 14=290(LC 19), 11=358(LC 20), 10=291(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 7-4-14, Exterior(2) 7-4-14 to 11-7-13, Interior(1) 11-7-13 to 13-4-14, Exterior(2) 13-4-14 to 17-7-13, Interior(1) 17-7-13 to 20-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12, 13, 14, 11, and 10. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 1, 2019

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 21437A	Truss VP3	Truss Type GABLE	Qty 1	Ply 1	140.1582.A.10x25cvp	137998124
84 Components (Dunn), Dunn, NC - 28334,					Job Reference (optional)	

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:29 2019 Page 1
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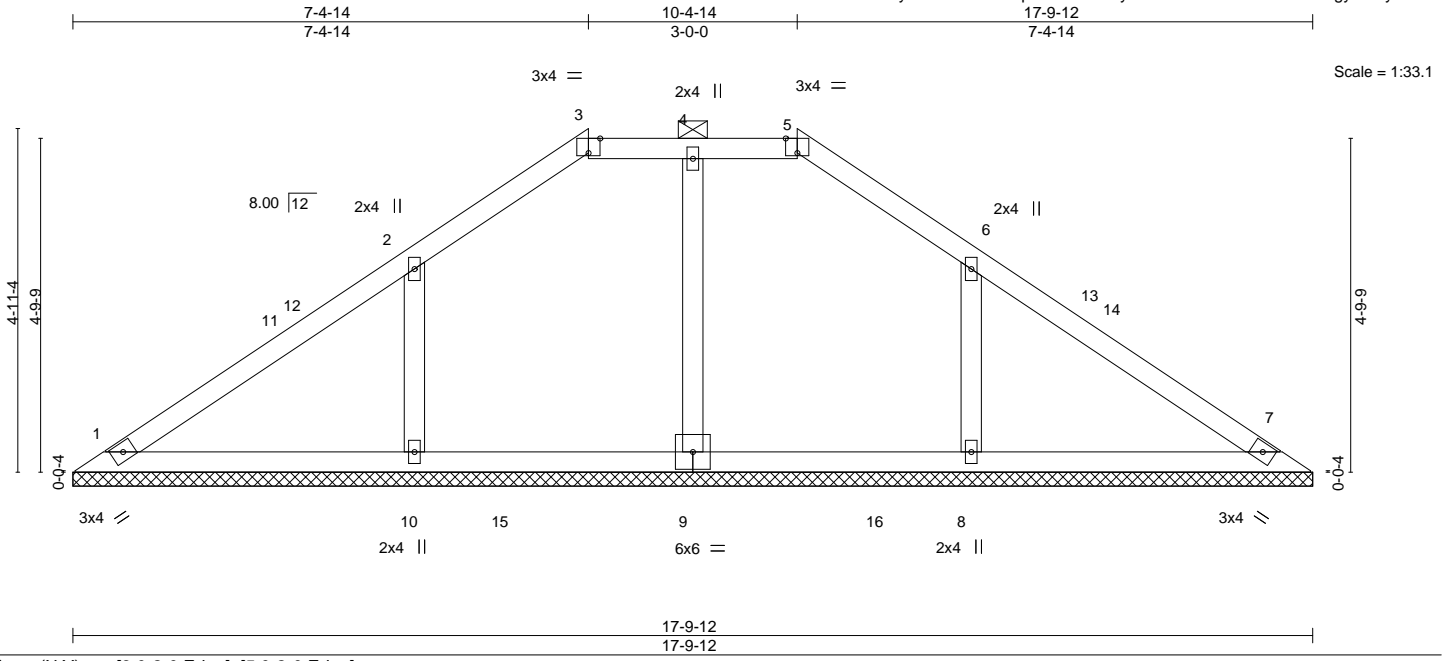


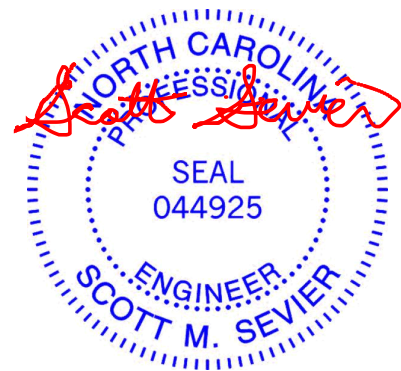
Plate Offsets (X,Y)--	[3:0-2-0,Edge], [5:0-2-0,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 70 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.): 3-5.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 17-9-12.
 (lb) - Max Horz 1=-112(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 9 except 10=-141(LC 12), 8=-139(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=315(LC 2), 10=425(LC 19), 8=423(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-10=-296/189, 6-8=-293/187

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 7-4-14, Exterior(2) 7-4-14 to 14-7-13, Interior(1) 14-7-13 to 17-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 8. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



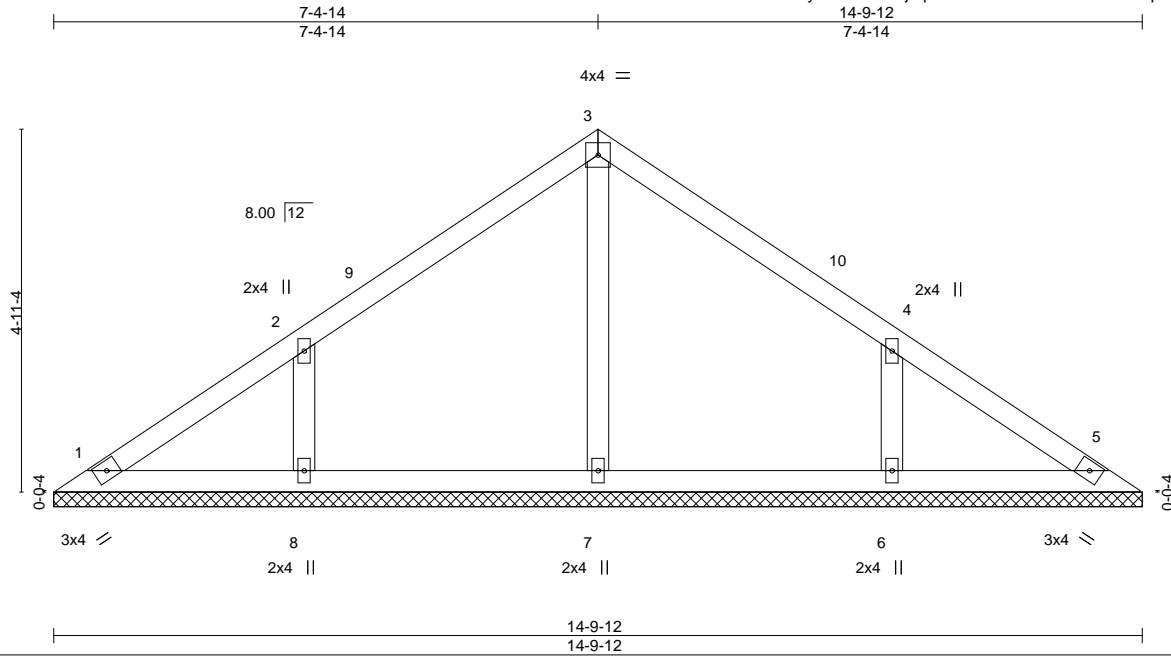
August 1, 2019

Job 21437A	Truss VP4	Truss Type GABLE	Qty 1	Ply 1	140.1582.A.10x25cvp	137998125
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:30 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-hOMxjvq72EA391mmWG00BU5t1Y9?pDZcrAPSc6ysW1x



Scale = 1:31.4

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 0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 58 lb	FT = 20%

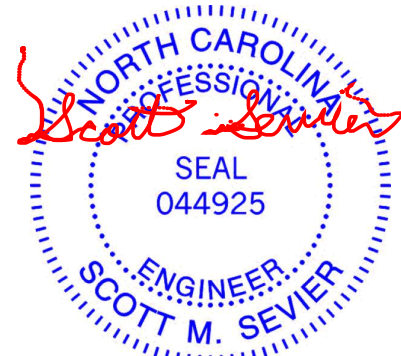
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

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 14-9-12.
 (lb) - Max Horz 1=114(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-137(LC 12), 6=-137(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=259(LC 1), 8=347(LC 19), 6=347(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-268/179, 4-6=-268/179

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-4-14, Interior(1) 3-4-14 to 7-4-14, Exterior(2) 7-4-14 to 10-4-14, Interior(1) 10-4-14 to 14-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.



August 1, 2019

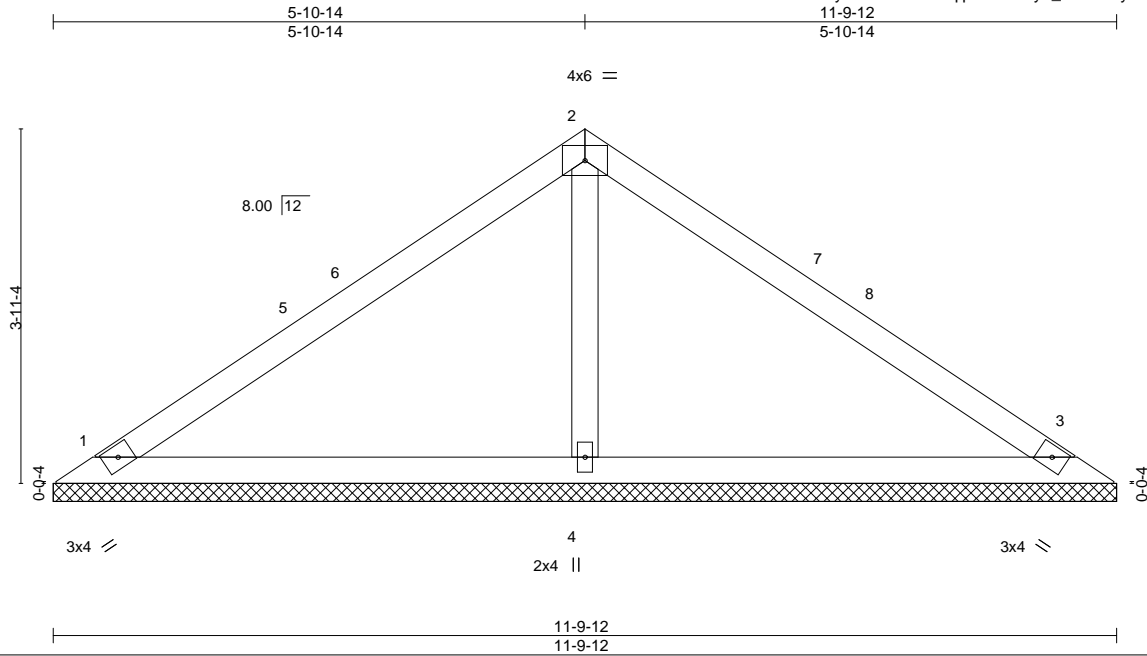
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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

Job 21437A	Truss VP5	Truss Type GABLE	Qty 1	Ply 1	140.1582.A.10x25cvp	137998126
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:31 2019 Page 1
ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-9bwJwFqlpYlwmBLy4_YdkiezuySQYgil3q878YysW1w



Scale = 1:25.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 42 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. (lb/size) 1=214/11-9-12, 3=214/11-9-12, 4=441/11-9-12
Max Horz 1=89(LC 9)
Max Uplift 1=-40(LC 12), 3=-52(LC 13), 4=-14(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-280/86

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 5-10-14, Exterior(2) 5-10-14 to 8-10-14, Interior(1) 8-10-14 to 11-4-0 zone; 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.
- 7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.



August 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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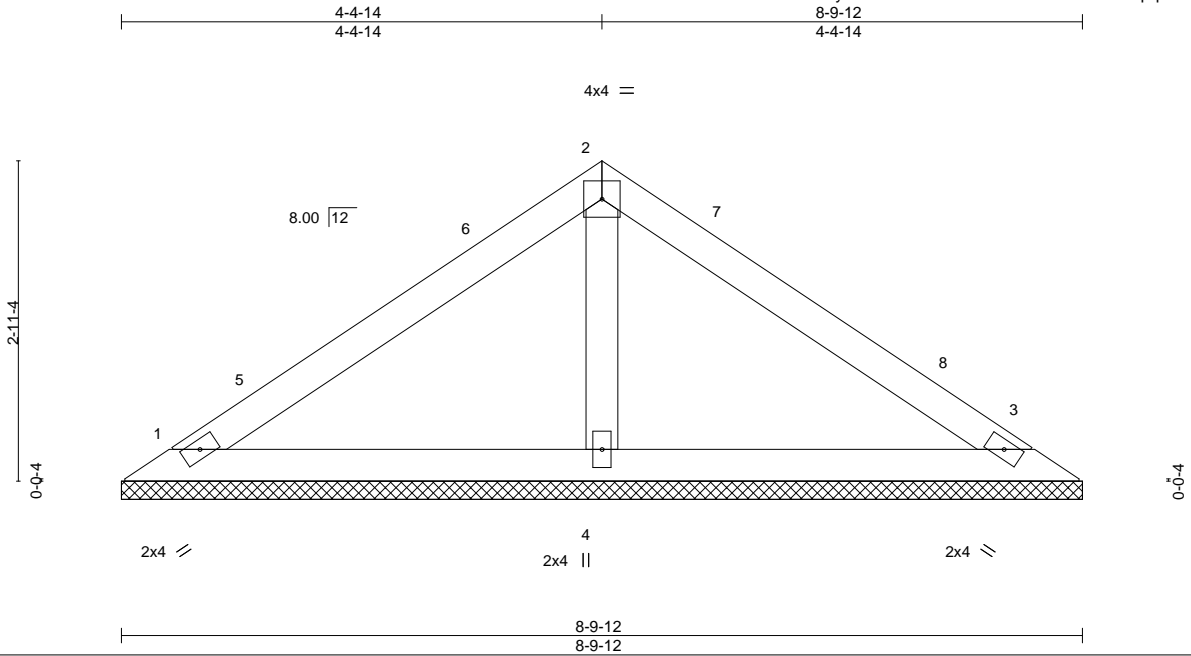
818 Soundside Road
Edenton, NC 27932

Job 21437A	Truss VP6	Truss Type GABLE	Qty 1	Ply 1	140.1582.A.10x25cvp	137998127
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:32 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-dnUi8brNasQnOLw9eh3sGvAAiMpqH8bvlUuZh?ysW1v



Scale = 1:21.1

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 0.30	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 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 31 lb	FT = 20%

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

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

REACTIONS. (lb/size) 1=169/8-9-12, 3=169/8-9-12, 4=289/8-9-12
 Max Horz 1=-65(LC 8)
 Max Uplift 1=-38(LC 12), 3=-46(LC 13)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-4-14, Exterior(2) 4-4-14 to 7-4-14, Interior(1) 7-4-14 to 8-4-0 zone; 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.



August 1, 2019

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 Edenton, NC 27932

Job 21437A	Truss VP7	Truss Type Valley	Qty 1	Ply 1	140.1582.A.10x25cvp	137998128
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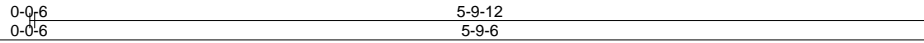
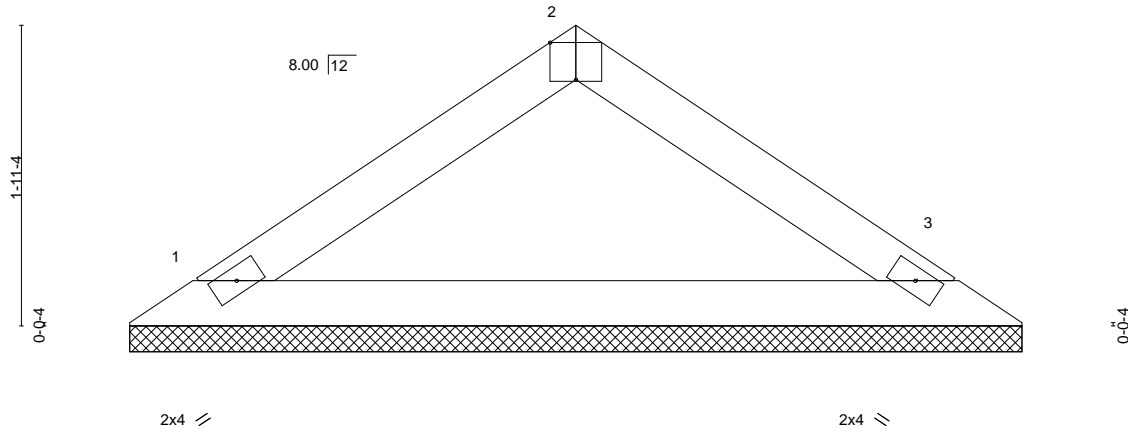
84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:32 2019 Page 1
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3x4 =

Scale = 1:14.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0 1.15	TC 0.10	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) n/a - n/a 999		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
				Weight: 17 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=194/5-9-0, 3=194/5-9-0
Max Horz 1=40(LC 9)
Max Uplift 1=-21(LC 12), 3=-21(LC 13)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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.



August 1, 2019

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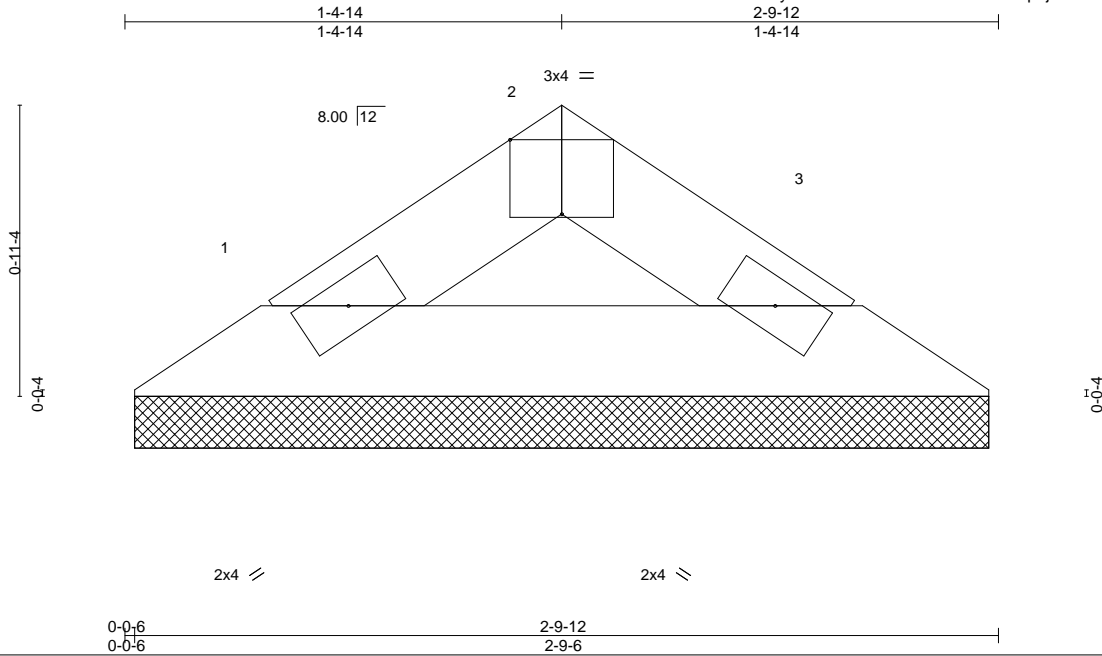


818 Soundside Road
Edenton, NC 27932

Job 21437A	Truss VP8	Truss Type Valley	Qty 1	Ply 1	140.1582.A.10x25cvp Job Reference (optional)	137998129
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84 Components (Dunn), Dunn, NC - 28334,

8.310 s Jun 11 2019 MiTek Industries, Inc. Wed Jul 31 15:07:33 2019 Page 1
ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-5z24Lxs?L9Ye0UULBP5p7jPkMAT0bW2X8d6DRysW1u



Scale = 1:7.4

Plate Offsets (X,Y)--	[2:0-2:0,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.02	Vert(LL)	n/a	-	n/a	999
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 0.00	Horz(CT)	0.00	3	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					
								PLATES
								MT20
								244/190
								Weight: 7 lb
								FT = 20%

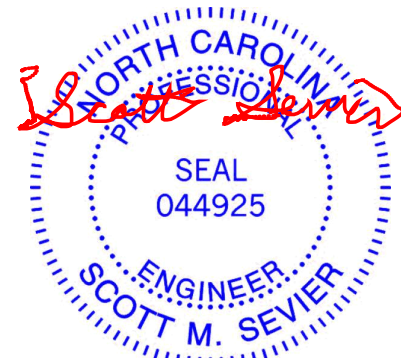
LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=74/2-9-0, 3=74/2-9-0
Max Horz 1=15(LC 9)
Max Uplift 1=8(LC 12), 3=8(LC 13)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



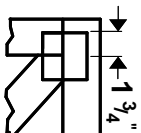
August 1, 2019

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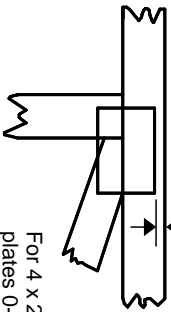
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

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 **MITrak 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



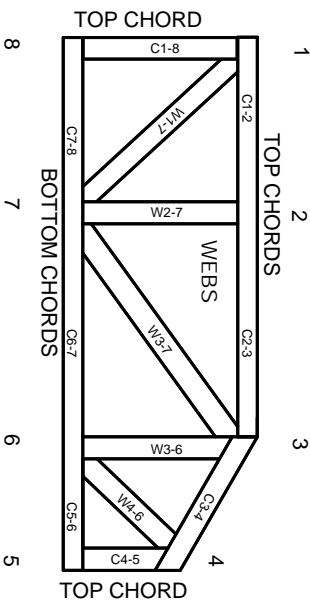
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: 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

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



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.