

RE: 27057-27057A
 79 South CREEK

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: Signature Homes -2307 Project Name: 27057-27057A
 Lot/Block: Model: MAGNOLIA 3CAR LH W/GDH
 Address: 40 Thunder Valley CT Subdivision:
 City: Lillington State: NC

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.5
 Wind Code: ASCE 7-10 Wind Speed: 130 mph
 Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 28 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I46525241	A2	6/16/2021	21	I46525261	M2	6/16/2021
2	I46525242	A3GR	6/16/2021	22	I46525262	PB2	6/16/2021
3	I46525243	A4	6/16/2021	23	I46525263	T1SGE	6/16/2021
4	I46525244	A4E	6/16/2021	24	I46525264	T3GE	6/16/2021
5	I46525245	A5GR	6/16/2021	25	I46525265	T9	6/16/2021
6	I46525246	B1GE	6/16/2021	26	I46525266	T10	6/16/2021
7	I46525247	B2	6/16/2021	27	I46525267	T11	6/16/2021
8	I46525248	B3	6/16/2021	28	I46525268	T12	6/16/2021
9	I46525249	B4GR	6/16/2021				
10	I46525250	B8	6/16/2021				
11	I46525251	C1GE	6/16/2021				
12	I46525252	C2	6/16/2021				
13	I46525253	C3	6/16/2021				
14	I46525254	C4GE	6/16/2021				
15	I46525255	D1GE	6/16/2021				
16	I46525256	D2	6/16/2021				
17	I46525257	J2	6/16/2021				
18	I46525258	J3	6/16/2021				
19	I46525259	J4GE	6/16/2021				
20	I46525260	M1	6/16/2021				

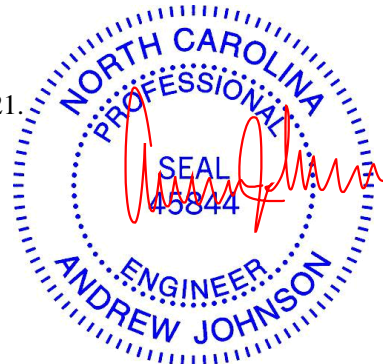
The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Truss Design Engineer's Name: Johnson, Andrew

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

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



June 16, 2021

Job 27057-27057A	Truss A2	Truss Type Attic	Qty 3	Ply 1	79 South CREEK Job Reference (optional)	146525241
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 14:58:48 2021 Page 2
ID:xRVNaXkOZJH7GTJrWeYcDvzCLCu-s115xNgokeSvbFp?PdXvGil_j9aDu7rw1uSLAtz7f25

NOTES-

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

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

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



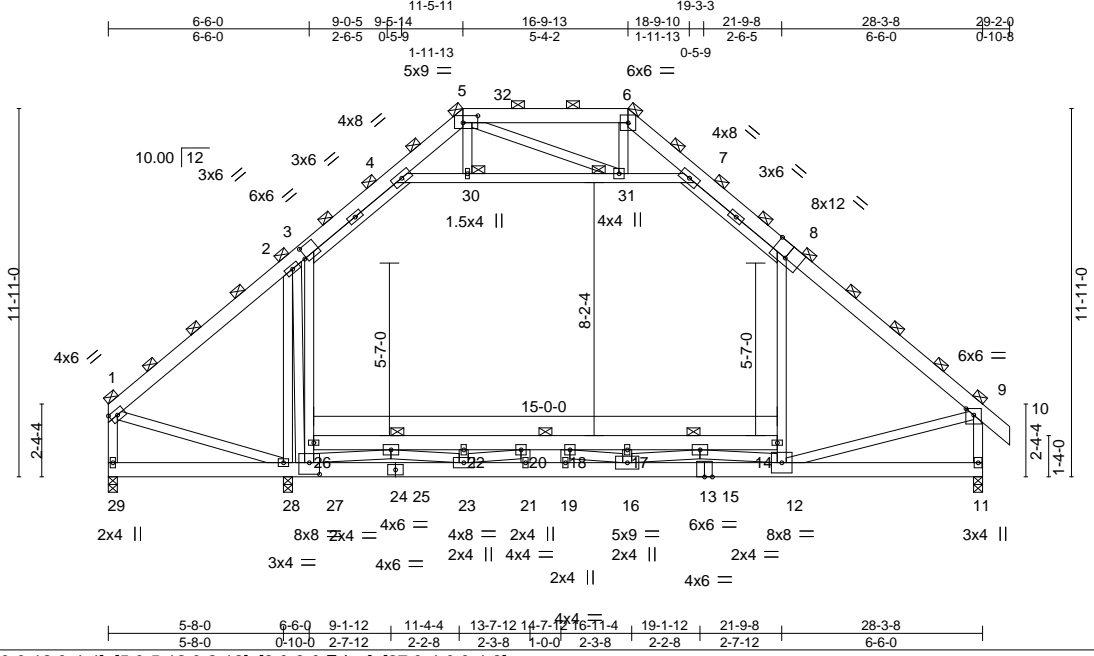
818 Soundside Road
Edenton, NC 27932

Job 27057-27057A	Truss A3GR	Truss Type ATTIC	Qty 1	Ply 3	79 South CREEK Job Reference (optional)	146525242
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 14:59:07 2021 Page 1

ID:XRvNaXkOZJH7GTJrWeYcDvzCLCu-ohhHwtvjGUrCMAmf16NMYja8Xp69qLjPLYrKGZ710



Scale = 1:74.6

Plate Offsets (X,Y)--	[3:0-0-12,0-4-4], [5:0-5-12,0-2-12], [8:0-6-0,Edge], [27:0-4-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	5-0-0	TC 0.98	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.77	Vert(LL) -0.24 17 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.80	Vert(CT) -0.43 17 >624 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.04 11 n/a n/a		
	Code IRC2015/TPI2014		Attic -0.15 14-26 1227 360	Weight: 930 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 8-10: 2x6 SP DSS	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD 2x6 SP No.2 *Except* 24-29,13-24: 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 15-25, 14-15 10-0-0 oc bracing: 25-26
WEBS 2x4 SP No.3 *Except* 3-27,8-12,4-7,3-4,7-8: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 5, 6, 9, 30, 31, 1, 25, 15

REACTIONS. (size) 29=0-3-8, 11=0-3-8, 28=0-3-8
 Max Horz 29=707(LC 6)
 Max Uplift 28=274(LC 7)
 Max Grav 29=4164(LC 15), 11=4647(LC 15), 28=1610(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-4476/0, 2-3=-6198/0, 3-4=-3202/124, 4-5=-901/332, 5-6=-310/705, 6-7=-751/354,
 7-8=-3154/130, 8-9=-4476/0, 1-29=-4140/0, 9-11=-4393/0
 BOT CHORD 28-29=-609/695, 27-28=0/2928, 23-27=0/6358, 21-23=0/11237, 19-21=0/11237,
 16-19=0/11237, 12-16=0/7693, 11-12=0/414, 25-26=0/1122, 22-25=-6500/0,
 20-22=-6500/0, 18-20=-8710/0, 17-18=-8108/0, 15-17=-8108/0
 WEBS 26-27=0/4241, 3-26=0/4650, 12-14=0/1199, 8-14=0/1848, 4-30=-3631/0, 30-31=-3617/0,
 7-31=-3507/0, 9-12=0/2712, 20-21=0/633, 22-23=-760/0, 20-23=-2413/0, 16-17=-662/0,
 16-18=-658/150, 2-28=-3350/0, 2-27=-243/447, 1-28=0/3386, 25-27=-5148/0,
 23-25=0/2847, 15-16=0/3139, 12-15=-5631/0

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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 Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-30, 30-31, 7-31; Wall dead load (5.0psf) on member(s). 3-26, 8-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 25-26, 22-25, 20-22, 18-20, 17-18, 15-17, 14-15



Continued on page 2

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

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

Job 27057-27057A	Truss A3GR	Truss Type ATTIC	Qty 1	Ply 3	79 South CREEK Job Reference (optional)	I46525242
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 14:59:08 2021 Page 2
ID:xRVNaXkOZJH7GTJrWeYcDvzCLCu-GuFf8DwL0oz3_KLrapub4w7JGDSOZCbsd?IPtjz7f1n

NOTES-

- 10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 28. This connection is for uplift only and does not consider lateral forces.
- 11) Attic room checked for L/360 deflection.

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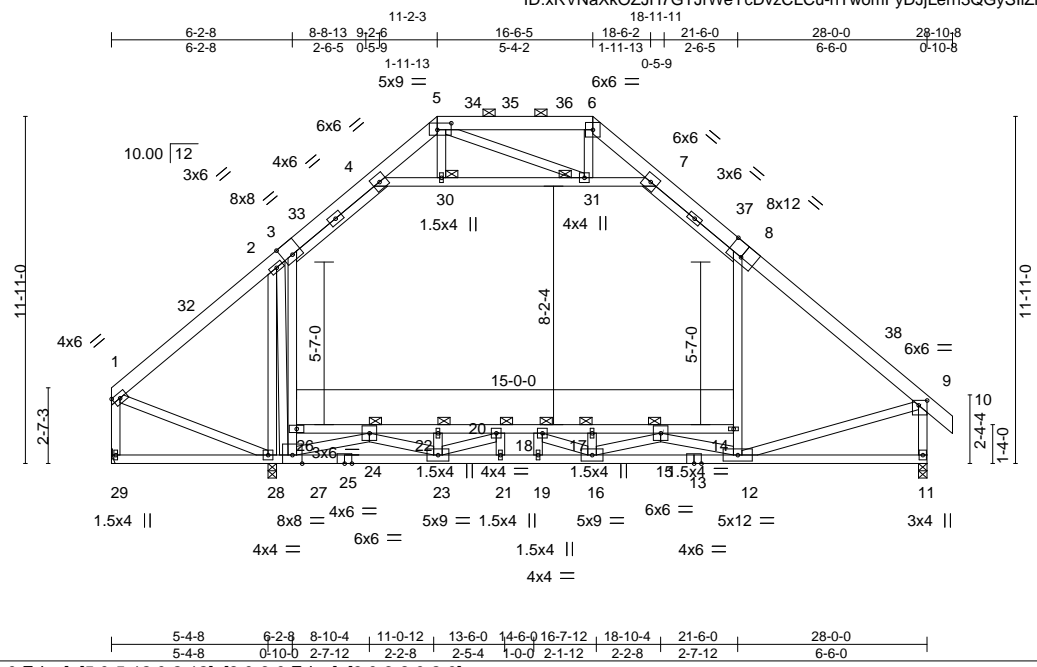
818 Soundside Road
Edenton, NC 27932

Job 27057-27057A	Truss A4	Truss Type ATTIC	Qty 3	Ply 1	79 South CREEK Job Reference (optional)	146525243
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 14:59:11 2021 Page 1

ID:RVNaXkOZJH7GTJrWeYcDvzCLCu-hTwomFyDjJLern3QGySliZlvQRbmXeJKzW3T2z7f1k



Scale = 1:79.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 1.00	Vert(LL) -0.32 17-18 >845 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.91	Vert(CT) -0.57 17-18 >474 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.07 11 n/a n/a		
	Code IRC2015/TPI2014		Attic -0.21 14-26 858 360	Weight: 276 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 5-6: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x4 SP DSS *Except* 14-26: 2x4 SP No.2, 13-25: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except* 3-27,8-12: 2x4 SP No.1, 4-7,3-4,7-8: 2x4 SP No.2 9-11: 2x4 SP No.2 or 2x4 SPF No.2	2-2-0 oc bracing: 21-23. 3-0-0 oc bracing: 17-20 3-1-0 oc bracing: 15-17 3-3-0 oc bracing: 20-22 3-4-0 oc bracing: 22-24 6-0-0 oc bracing: 14-15 10-0-0 oc bracing: 24-26
	JOINTS 1 Brace at Jt(s): 30, 31, 20, 22, 17, 24, 15

REACTIONS. (size) 29=Mechanical, 11=0-3-8, 28=0-3-8
 Max Horz 29=-288(LC 10)
 Max Uplift 28=-275(LC 11)
 Max Grav 29=1887(LC 19), 11=1893(LC 19), 28=432(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1870/0, 2-3=-2481/8, 3-4=-1315/132, 4-5=-352/162, 5-6=-109/328, 6-7=-281/174,
 7-8=-1298/123, 8-9=-1844/0, 1-29=-1838/0, 9-11=-1823/0
 BOT CHORD 28-29=-244/278, 27-28=0/1222, 23-27=0/2666, 21-23=0/4313, 19-21=0/4313,
 16-19=0/4313, 12-16=0/3022, 24-26=0/443, 22-24=-2699/0, 20-22=-2699/0,
 18-20=-3262/0, 17-18=-3006/0, 15-17=-3006/0
 WEBS 26-27=0/1690, 3-26=0/1821, 12-14=0/575, 8-14=0/764, 4-30=-1542/17, 30-31=-1536/19,
 7-31=-1501/6, 9-12=0/1137, 22-23=-261/0, 20-23=-627/0, 16-18=-295/0, 2-28=-1090/0,
 2-27=-402/172, 1-28=0/1461, 24-27=-2192/0, 23-24=0/1185, 15-16=0/1131,
 12-15=-2219/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-2-3, Exterior(2) 11-2-3 to 15-5-2, Interior(1) 15-5-2 to 16-6-5, Exterior(2) 16-6-5 to 20-9-3, Interior(1) 20-9-3 to 28-10-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-30, 30-31, 7-31; Wall dead load (5.0psf) on member(s). 3-26, 8-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 24-26, 22-24, 20-22, 18-20, 17-18, 15-17, 14-15



Refer to page 2 for truss to truss connections.

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

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 Edenton, NC 27932

Job 27057-27057A	Truss A4	Truss Type ATTIC	Qty 3	Ply 1	79 South CREEK Job Reference (optional)	I46525243
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 14:59:11 2021 Page 2
ID:xRVNaXkOZJH7GTJrWeYcDvzCLCu-hTwomFyDjJLern3QGySliZlvQRbmXeJKzW3T2z7f1k

NOTES-

- 9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 28. This connection is for uplift only and does not consider lateral forces.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.

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Edenton, NC 27932

Job 27057-27057A	Truss A4E	Truss Type GABLE	Qty 1	Ply 1	79 South CREEK Job Reference (optional)	146525244
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 14:59:15 2021 Page 2
ID:xRVNaXkOZJH7GTJrWeYcDvzCLCu-ZEAJcc?kNxr4KPNBVoWESPwbu2oXiKeuEaUGcpz7f1g

NOTES-

- 9) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-30, 30-31, 7-31; Wall dead load (5.0psf) on member(s).3-26, 8-14
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 24-26, 22-24, 20-22, 18-20, 17-18, 15-17, 14-15
- 11) Refer to girder(s) for truss to truss connections.
- 12) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 28. This connection is for uplift only and does not consider lateral forces.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

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

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818 Soundside Road
Edenton, NC 27932

Job 27057-27057A	Truss A5GR	Truss Type ATTIC	Qty 1	Ply 3	79 South CREEK Job Reference (optional)	146525245
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 14:59:24 2021 Page 1

ID:XRvNaXkOZJH7GTJrWeYcDvzCLCu-ozCivh6NFi_ovnZwWABlkn2Rg?zJRhDUJAFRnz711X

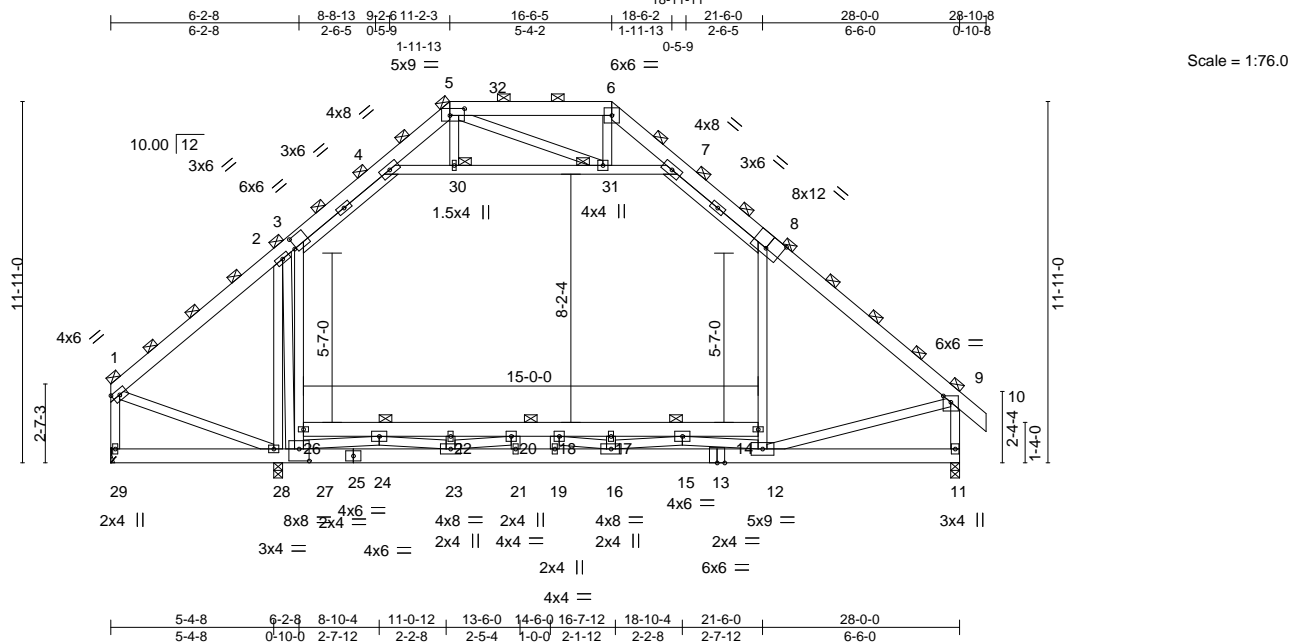


Plate Offsets (X,Y)--	[3:0-0-12,0-4-4], [5:0-5-12,0-2-12], [8:0-6-0,Edge], [27:0-4-0,0-4-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	5-0-0	TC 0.96	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.46	Vert(LL) -0.24 17 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.79	Vert(CT) -0.42 17 >631 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.04 11 n/a n/a		
	Code IRC2015/TPI2014		Attic -0.15 14-26 1239 360	Weight: 925 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 8-10: 2x6 SP DSS	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD 2x6 SP DSS *Except* 14-26: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 15-24, 14-15 10-0-0 oc bracing: 24-26
WEBS 2x4 SP No.3 *Except* 3-27,8-12,4-7,3-4,7-8: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 5, 6, 9, 30, 31, 1, 24, 15

REACTIONS. (size) 29=Mechanical, 11=0-3-8, 28=0-3-8
 Max Horz 29=-714(LC 6)
 Max Uplift 28=-376(LC 7)
 Max Grav 29=4305(LC 15), 11=4638(LC 15), 28=1457(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-4420/0, 2-3=-6116/0, 3-4=-3179/123, 4-5=-906/321, 5-6=-315/693, 6-7=-760/345,
 7-8=-3132/129, 8-9=-4435/0, 1-29=-4299/0, 9-11=-4350/0
 BOT CHORD 28-29=-619/680, 27-28=0/2902, 23-27=0/6393, 21-23=0/11325, 19-21=0/11325,
 16-19=0/11325, 12-16=0/7818, 11-12=0/421, 24-26=0/1104, 22-24=-6610/0,
 20-22=-6610/0, 18-20=-8819/0, 17-18=-8207/0, 15-17=-8207/0
 WEBS 26-27=0/4145, 3-26=0/4557, 12-14=0/1196, 8-14=0/1825, 4-30=-3580/0, 30-31=-3566/0,
 7-31=-3461/0, 9-12=0/2688, 20-21=0/578, 22-23=-791/0, 20-23=-2386/0, 16-17=-585/0,
 16-18=-676/165, 2-28=-3295/0, 2-27=-189/421, 1-28=0/3449, 24-27=-5191/0,
 23-24=0/2905, 15-16=0/3089, 12-15=-5777/0

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-30, 30-31, 7-31; Wall dead load (5.0psf) on member(s). 3-26, 8-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 24-26, 22-24, 20-22, 18-20, 17-18, 15-17, 14-15
- On Refer to page(s) for truss to truss connections.



June 11, 2021

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

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 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 27057-27057A	Truss A5GR	Truss Type ATTIC	Qty 1	Ply 3	79 South CREEK Job Reference (optional)	I46525245
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 14:59:24 2021 Page 2
ID:xRVNaXkOZJH7GTJrWeYcDvzCLCu-ozCiVh6NFi_ovnZwWABLkn2Rg?zJRhDJUAFRnz7f1X

NOTES-

- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 28. This connection is for uplift only and does not consider lateral forces.
- 12) Attic room checked for L/360 deflection.

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

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



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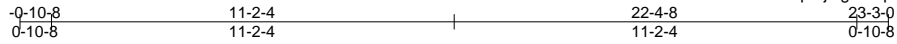
Job 27057-27057A	Truss B1GE	Truss Type Common Supported Gable	Qty 1	Ply 1	79 South CREEK	146525246
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84 Components (Dunn),

Dunn, NC - 28334,

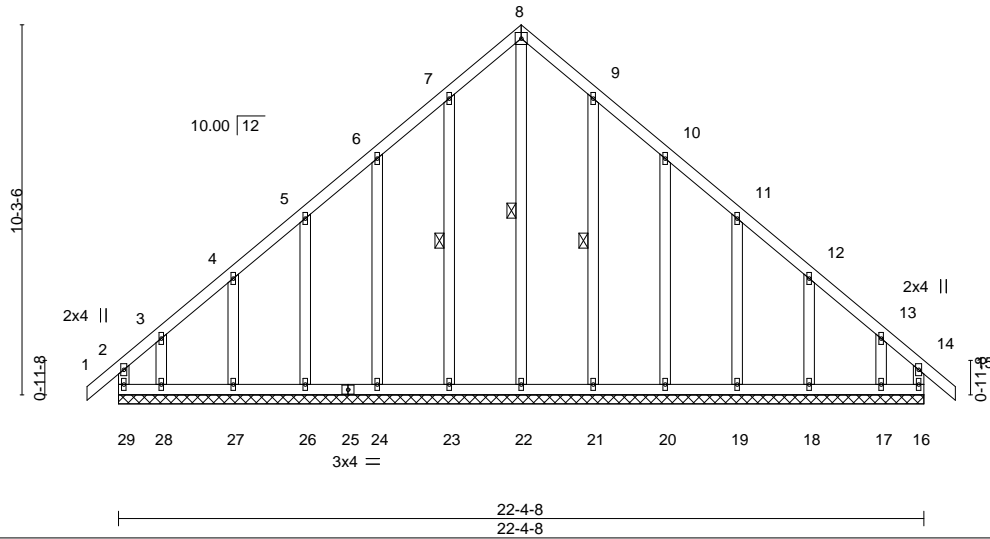
8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 14:59:39 2021 Page 1

ID:xRVNaXkOZJH7GTJrWeYcDvzCLCu-srcNepInjJtgC5CpvqysrTvp8jCPKNPQmJJYTQz7f11



4x4 =

Scale: 3/16"=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 0.16	Vert(LL)	-0.00	15	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.00	15	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.00	16	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 167 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 8-22, 7-23, 9-21

REACTIONS.

All bearings 22-4-8.
 (lb) - Max Horz 29=237(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 23, 24, 26, 27, 21, 20, 19, 18 except 29=140(LC 10), 28=116(LC 9), 17=100(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 29, 16, 23, 24, 26, 27, 28, 21, 20, 19, 18, 17 except 22=278(LC 12)

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

TOP CHORD 7-8=-250/294, 8-9=-250/294
 WEBS 8-22=-307/198

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 11-2-4, Corner(3) 11-2-4 to 14-2-4, Exterior(2) 14-2-4 to 23-3-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



June 11, 2021

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

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

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

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



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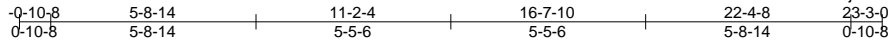
Job 27057-27057A	Truss B2	Truss Type Common	Qty 1	Ply 1	79 South CREEK	146525247
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84 Components (Dunn),

Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 14:59:56 2021 Page 1

ID:xRVNaXkOZJH7GTJrWeYcDvzCLCu-s78oCdVSjY0fIi04Ovlr126f8Zvdpv2xgTwxZxz7f11



4x6 ||

Scale: 3/16"=1'

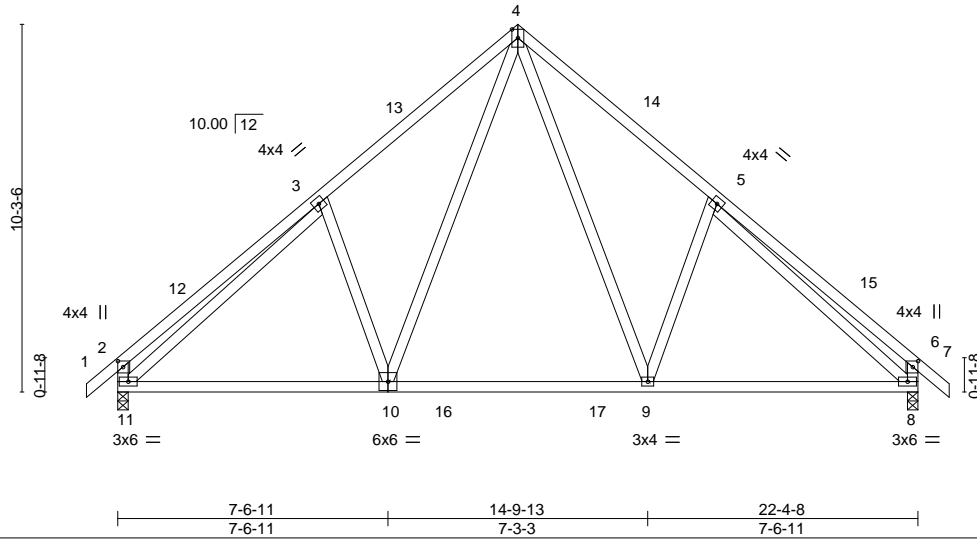


Plate Offsets (X,Y)--	[2:0-2-0,0-1-12], [6:0-2-0,0-1-12]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.15 9-10 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -0.19 9-10 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.83	Horz(CT) 0.02 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 151 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-13 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 11=0-3-8, 8=0-3-8
 Max Horz 11=237(LC 11)
 Max Uplift 11=-86(LC 12), 8=-86(LC 12)
 Max Grav 11=945(LC 1), 8=945(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-445/183, 3-4=-940/257, 4-5=-941/257, 5-6=-445/184, 2-11=-439/204, 6-8=-439/204
 BOT CHORD 10-11=-0/836, 9-10=0/573, 8-9=0/730
 WEBS 4-9=-107/501, 5-9=-307/206, 4-10=-107/501, 3-10=-307/206, 3-11=-765/0, 5-8=-765/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-2-4, Exterior(2) 11-2-4 to 14-2-4, Interior(1) 14-2-4 to 23-3-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 8. This connection is for uplift only and does not consider lateral forces.



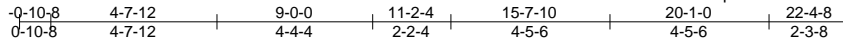
Job 27057-27057A	Truss B3	Truss Type Roof Special	Qty 5	Ply 1	79 South CREEK	146525248
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84 Components (Dunn),

Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 14:59:58 2021 Page 1

ID:xRVNaXkOZJH7GTJrWeYcDvzCLCu-pVGZdJWiF9Gz_09SWJoJ6TB07NVuHu5D7nP2epz7f1?



4x4 =

Scale: 3/16"=1'

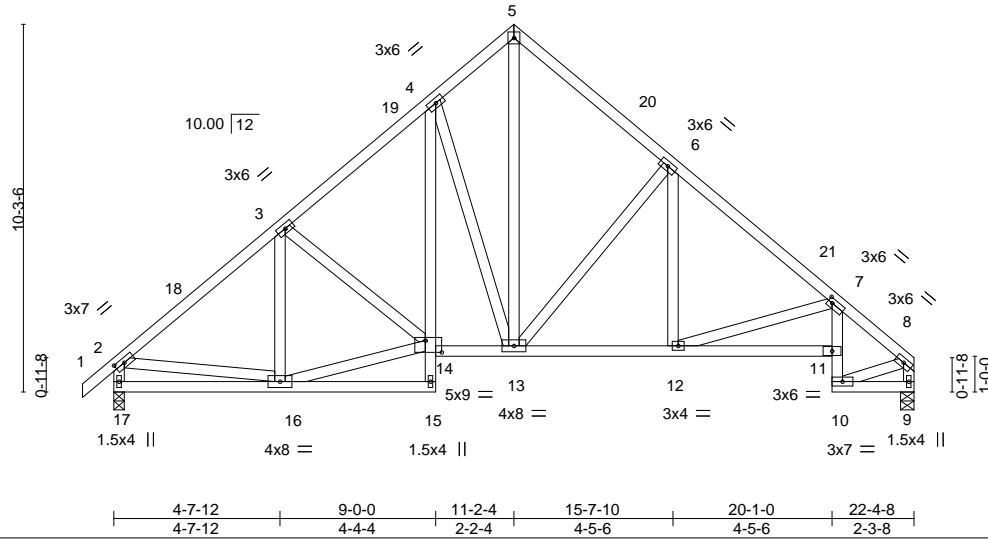


Plate Offsets (X,Y)--	[2:0-3-5,0-1-8], [7:0-1-8,0-1-8], [14:0-5-8,0-4-0]
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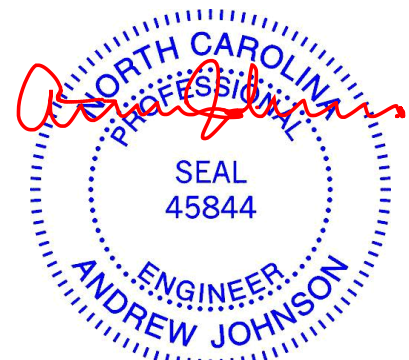
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.85	Vert(LL) -0.06 11-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.48	Vert(CT) -0.12 11-12 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.11 9 n/a n/a		
	Code IRC2015/TPI2014			Weight: 171 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 4-15: 2x4 SP No.3, 7-10: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.
WEBS 2x4 SP No.3	

REACTIONS. (size) 17=0-3-8, 9=0-4-8
 Max Horz 17=232(LC 11)
 Max Uplift 17=-86(LC 12), 9=-53(LC 12)
 Max Grav 17=946(LC 1), 9=882(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1037/136, 3-4=-978/180, 4-5=-788/226, 5-6=-814/213, 6-7=-1136/168,
 7-8=-972/126, 2-17=-898/166, 8-9=-941/120
 BOT CHORD 16-17=-164/299, 4-14=-36/347, 13-14=0/715, 12-13=-8/811, 11-12=-136/1141
 WEBS 14-16=-41/754, 4-13=-455/147, 5-13=-203/816, 6-13=-449/137, 6-12=0/287,
 7-12=-382/134, 2-16=0/603, 8-10=-73/682

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-2-4, Exterior(2) 11-2-4 to 14-2-4, Interior(1) 14-2-4 to 22-2-12 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17 and 9. This connection is for uplift only and does not consider lateral forces.



June 11, 2021

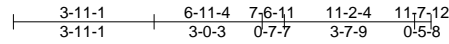
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 27057-27057A	Truss B4GR	Truss Type Common Girder	Qty 1	Ply 2	79 South CREEK Job Reference (optional)	146525249
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:00:09 2021 Page 1

ID: xRVNaXkOZJH7GTJrWeYcDvzCLCu_dQjx4fcfXfPoiVaf7Uv3o9wlpbMnKrf_a7Wgz7f0q



Scale: 3/16"=1'

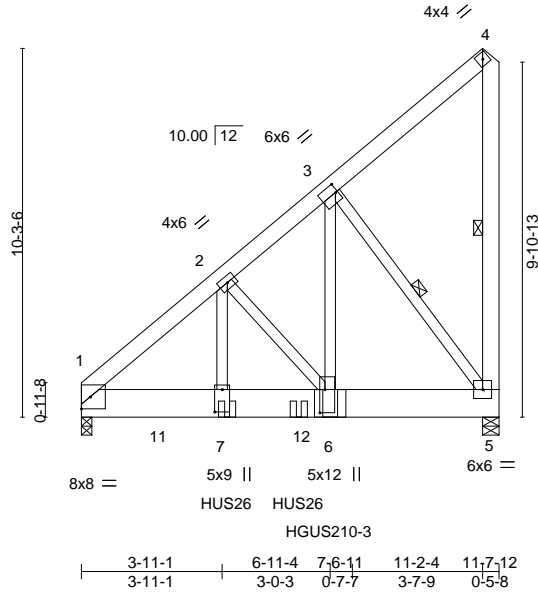


Plate Offsets (X,Y)-- [3:0-0-12,0-3-0], [6:0-7-12,0-1-12], [7:0-7-8,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	-0.04	6-7	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.08	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.83	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP					Weight: 263 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x10 SP No.2
 WEBS 2x4 SP No.3 *Except*
 4-5: 2x6 SP No.2, 3-6: 2x4 SP No.2 or 2x4 SPF No.2

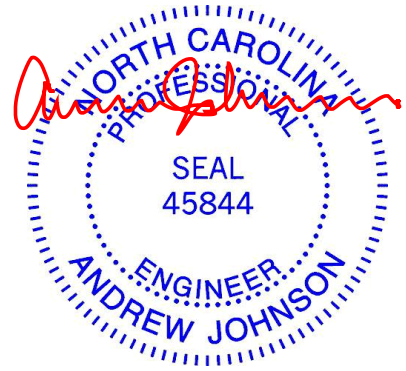
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-5, 3-5

REACTIONS. (size) 1=0-3-8 (req. 0-4-1), 5=0-5-8
 Max Horz 1=339(LC 7)
 Max Grav 1=5192(LC 26), 5=4568(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-6059/0, 2-3=-4111/0
 BOT CHORD 1-7=0/4577, 6-7=0/4577, 5-6=0/3156
 WEBS 2-7=0/2869, 3-6=0/6435, 2-6=-2194/0, 3-5=-5263/0

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-2-0 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.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 1 greater than input bearing size.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-0-12 from the left end to 6-0-12 to connect truss(es) to front face of bottom chord.
- Use Simpson Strong-Tie HGUS210-3 (46-10d Girder, 16-10d Truss) or equivalent at 6-11-4 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1664 lb down at 2-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



LOAD CASE(S) Standard

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

Job 27057-27057A	Truss B4GR	Truss Type Common Girder	Qty 1	Ply 2	79 South CREEK Job Reference (optional)	I46525249
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:00:09 2021 Page 2
ID:xRVNaXkOZJH7GTJrWeYcDvzCLCu-_dQjx4fcXfPoiVaf7Uv3o9wplbMnKrf_a7Wgz7f0q

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-1386(F) 6=-3237(F) 11=-1386(F) 12=-1386(F)

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

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



818 Soundside Road
Edenton, NC 27932

Job 27057-27057A	Truss B8	Truss Type Common	Qty 2	Ply 1	79 South CREEK	146525250
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84 Components (Dunn),

Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:00:14 2021 Page 1

ID:xRVNaXKOZJH7GTJrWeYcDvzCLCu-LaEc_njkU4HivTOXSh44mrsjWq2r11oapGHuBuz7f0l



4x6 ||

Scale: 3/16"=1'

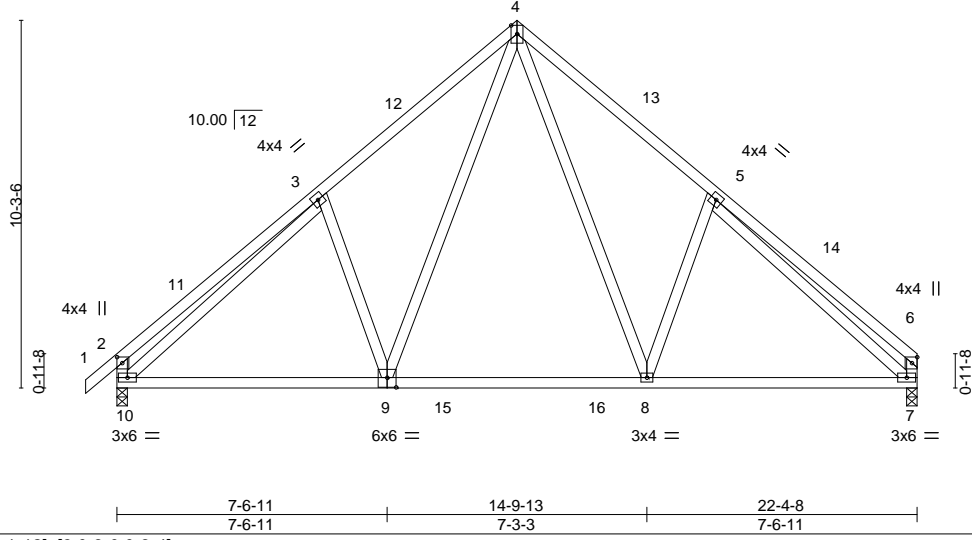


Plate Offsets (X,Y)--	[2:0-2-0,0-1-12], [9:0-3-0,0-3-4]
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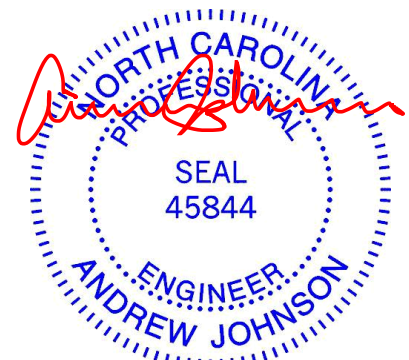
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.15 8-9 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -0.19 8-9 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.88	Horz(CT) 0.02 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 149 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-11 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 10=0-3-8, 7=0-3-8
 Max Horz 10=232(LC 11)
 Max Uplift 10=-86(LC 12), 7=-53(LC 12)
 Max Grav 10=946(LC 1), 7=882(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-445/183, 3-4=-942/257, 4-5=-947/265, 5-6=-367/144, 2-10=-438/204, 6-7=-335/133
 BOT CHORD 9-10=-44/828, 8-9=0/564, 7-8=-44/726
 WEBS 4-8=-109/509, 5-8=-314/208, 4-9=-108/501, 3-9=-308/206, 3-10=-767/0, 5-7=-807/10

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-2-4, Exterior(2) 11-2-4 to 14-2-4, Interior(1) 14-2-4 to 22-2-12 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 7. This connection is for uplift only and does not consider lateral forces.



June 11, 2021

Job 27057-27057A	Truss C1GE	Truss Type Roof Special Supported Gable	Qty 1	Ply 1	79 South CREEK	146525251
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:00:32 2021 Page 1

ID:XRvNaXkOZJH7GTJrWeYcDvzCLCu-p2JQmxx1EcY83Em_VSPiUectW4IsFMiEy3erqrz7f0T



Scale = 1:42.4

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 0.12	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	15	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 121 lb	FT = 20%

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

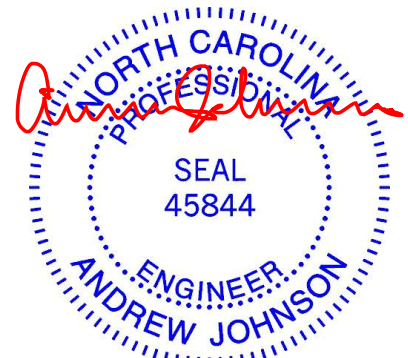
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 21-8-0.
(lb) - Max Horz 2=162(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 15, 2, 17, 18, 19, 20, 21, 22, 24, 25, 16
Max Grav All reactions 250 lb or less at joint(s) 15, 2, 17, 18, 19, 20, 21, 22, 24, 16 except 25=261(LC 21)

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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 17-6-1, Corner(3) 17-6-1 to 20-6-1, Exterior(2) 20-6-1 to 21-6-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



June 11, 2021

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

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

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

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



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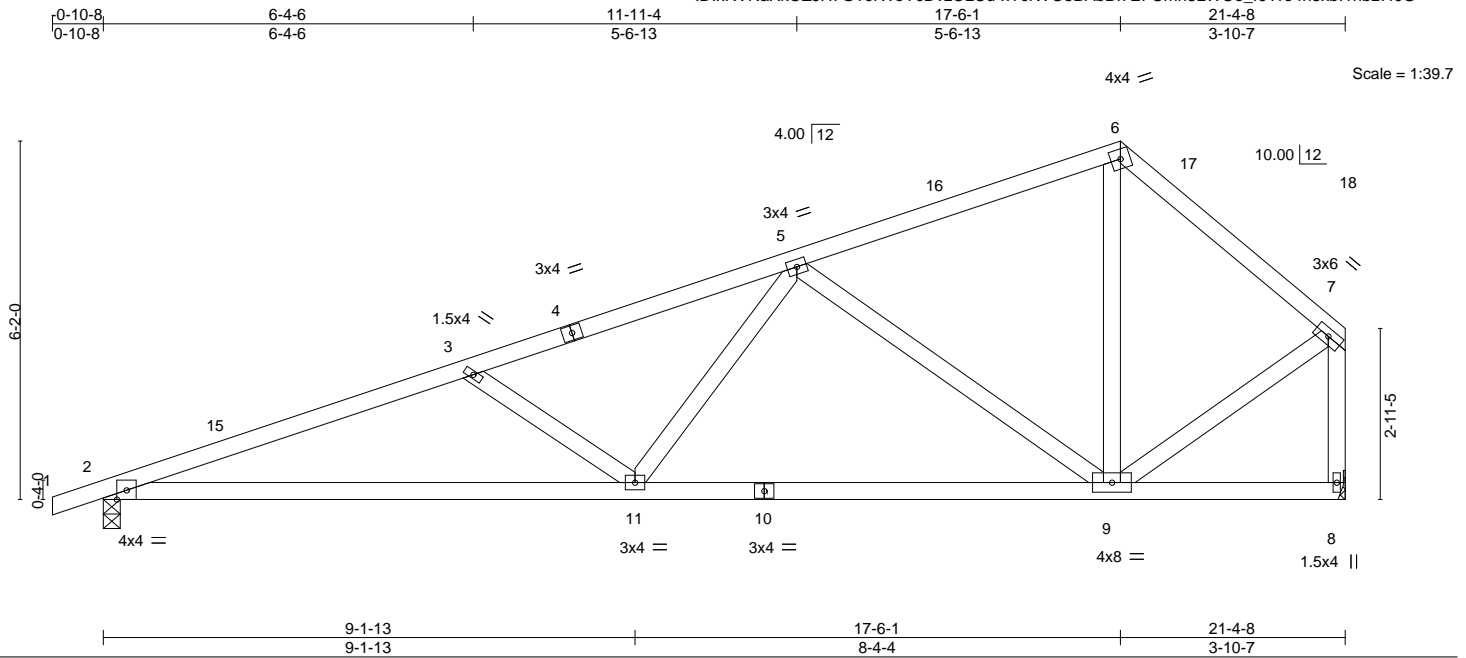
Job 27057-27057A	Truss C2	Truss Type Roof Special	Qty 6	Ply 1	79 South CREEK	146525252
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:00:45 2021 Page 1

ID: xRVNaXkOZJH7GTJrWeYcDvzCLCu-xYcKVO5BAbBI7EFUmh8LWOe_rJYro4n8xb11nbz7f0G

Job Reference (optional)



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 0.52	Vert(LL) -0.14	11-14	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.85	Vert(CT) -0.32	11-14	>799	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT) 0.04	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 109 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 8=Mechanical
 Max Horz 2=166(LC 11)
 Max Uplift 2=79(LC 12), 8=52(LC 12)
 Max Grav 2=903(LC 1), 8=848(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1945/221, 3-5=-1589/161, 5-6=-566/130, 6-7=-685/121, 7-8=-826/128
 BOT CHORD 2-11=-275/1820, 9-11=-186/1137
 WEBS 3-11=-449/139, 5-11=0/591, 5-9=-820/143, 6-9=-15/340, 7-9=-43/566

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 17-6-1, Exterior(2) 17-6-1 to 20-6-1, Interior(1) 20-6-1 to 21-2-12 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
 - 7) One RT7A MiTek 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 27057-27057A	Truss C3	Truss Type ROOF TRUSS	Qty 6	Ply 1	79 South CREEK	146525253
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:00:48 2021 Page 1

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3x6 ||

Scale = 1:43.5

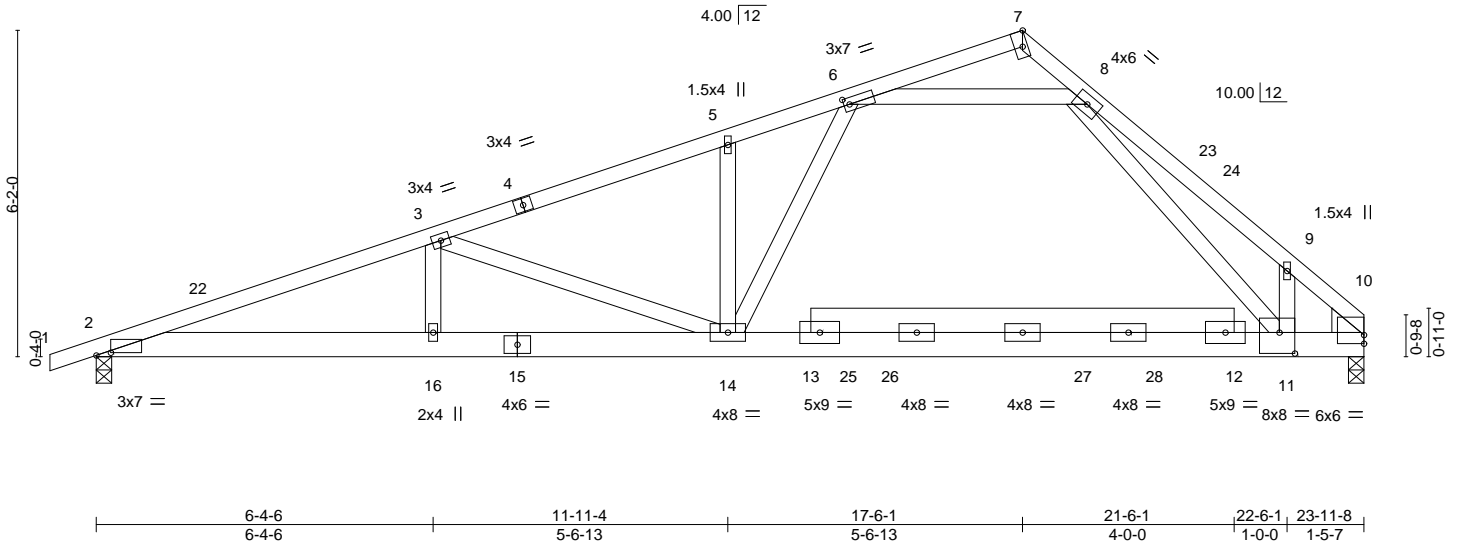


Plate Offsets (X,Y)--	[2:0-3-5,0-0-10], [6:0-1-4,0-1-8], [7:0-3-8,Edge], [10:0-0-0,0-2-0], [11:0-3-8,0-4-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.97	Vert(LL) -0.30	14-16	>959	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15		BC 0.65	Vert(CT) -0.64	14-16	>444	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.63	Horz(CT) 0.04	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						

Weight: 159 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP DSS *Except*
7-10: 2x4 SP No.1, 1-4: 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2 *Except*
10-15: 2x6 SP DSS
WEBS 2x4 SP No.3
WEDGE
Right: 2x6 SP No.2

BRACING-

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

REACTIONS.

(size) 10=0-3-8, 2=0-3-8
Max Horz 2=123(LC 11)
Max Uplift 2=36(LC 12)
Max Grav 10=1097(LC 1), 2=1069(LC 1)

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

TOP CHORD 2-3=-2553/81, 3-5=-1645/10, 5-6=-1736/46, 8-9=-1861/0, 9-10=-2186/0
BOT CHORD 2-16=-41/2378, 14-16=-41/2378, 11-14=0/1066, 10-11=0/1488
WEBS 3-16=0/354, 3-14=-940/132, 5-14=-648/84, 9-11=0/561, 6-8=-1147/83, 6-14=0/1039,
8-11=0/724

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 17-6-1, Exterior(2) 17-6-1 to 20-6-1, Interior(1) 20-6-1 to 23-11-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 17-6-1 from left end, supported at two points, 5-0-0 apart.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 7) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



June 11, 2021

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

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

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



818 Soundside Road
Edenton, NC 27932

Job 27057-27057A	Truss C4GE	Truss Type Roof Special Supported Gable	Qty 1	Ply 1	79 South CREEK	146525254
84 Components (Dunn), Dunn, NC - 28334,					Job Reference (optional)	

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:00:50 2021 Page 1
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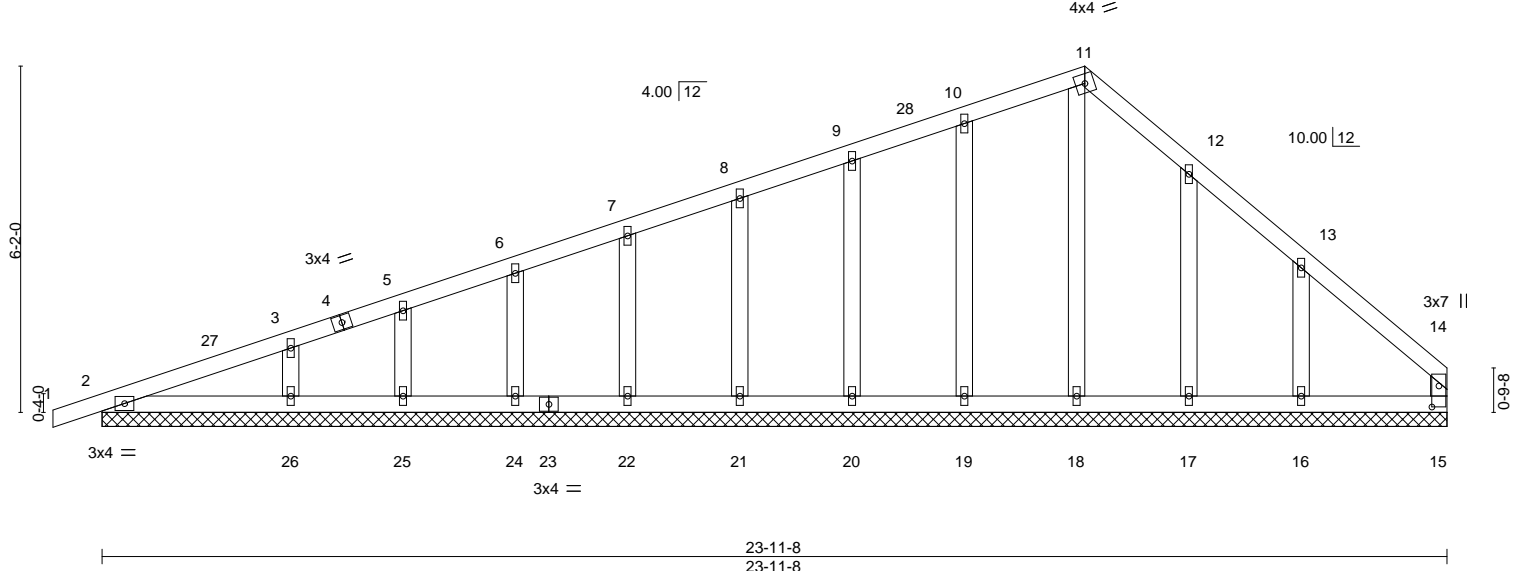


Plate Offsets (X,Y)--	[14:0-4-8,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	-0.00	1	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	15	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 126 lb	FT = 20%

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

REACTIONS. All bearings 23-11-8.
 (lb) - Max Horz 2=136(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 24, 25, 26, 17, 16
 Max Grav All reactions 250 lb or less at joint(s) 15, 2, 18, 19, 20, 21, 22, 24, 25, 17, 16 except 26=261(LC 21)

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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 17-6-1, Corner(3) 17-6-1 to 20-6-1, Exterior(2) 20-6-1 to 23-9-12 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



June 11, 2021

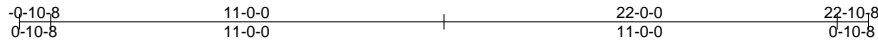
Job 27057-27057A	Truss D1GE	Truss Type Common Supported Gable	Qty 1	Ply 1	79 South CREEK Job Reference (optional)	146525255
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84 Components (Dunn),

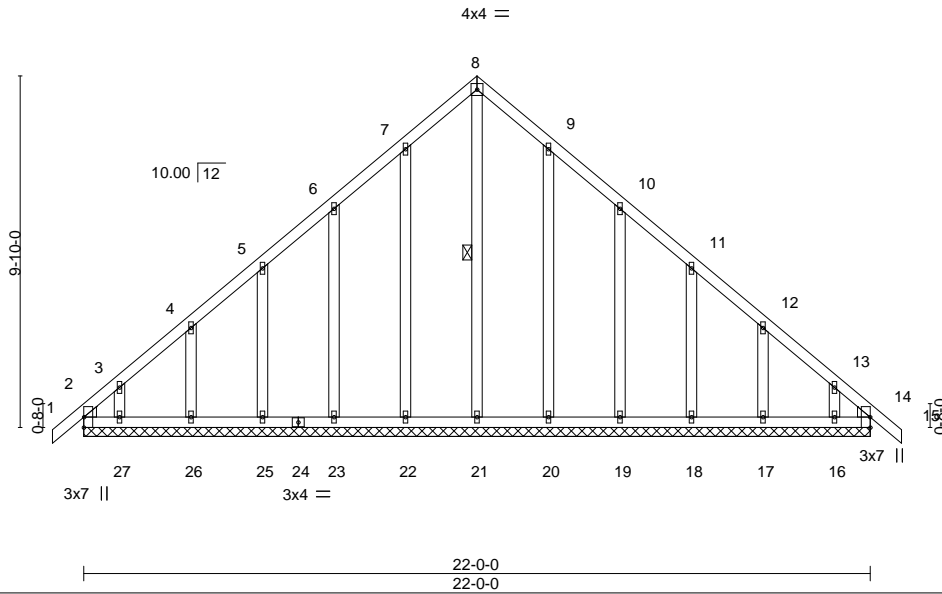
Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:00:53 2021 Page 1

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Scale: 3/16"=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 0.06	Vert(LL)	-0.00	15	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	15	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.01	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 158 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 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 10-0-0 oc bracing.
 WEBS 1 Row at midpt 8-21

REACTIONS.

All bearings 22-0-0.
 (lb) - Max Horz 2--209(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 23, 25, 26, 27, 20, 19, 18, 17, 16, 14
 Max Grav All reactions 250 lb or less at joint(s) 2, 21, 22, 23, 25, 26, 27, 20, 19, 18, 17, 16, 14

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 11-0-0, Corner(3) 11-0-0 to 14-0-0, Exterior(2) 14-0-0 to 22-10-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) N/A
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 14.



June 11,2021

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

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

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

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

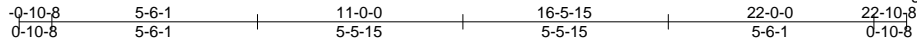


818 Soundside Road
 Edenton, NC 27932

Job 27057-27057A	Truss D2	Truss Type Common	Qty 5	Ply 1	79 South CREEK 146525256
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:01:10 2021 Page 1
ID: xRVNaXkOZJH7GTJrWeYcDvzCLCu-iMcnkxOsiHLd4gIkR4C1fAJqO9J9W5qh_rs9ez7f?t



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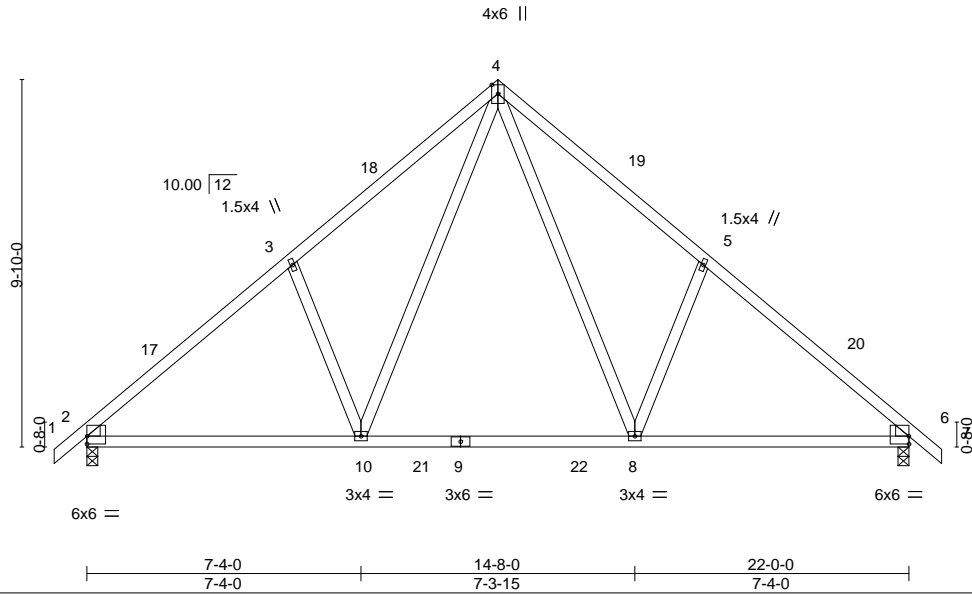


Plate Offsets (X, Y)--	[2:Edge,0-2-8], [6:Edge,0-2-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.16 8-10 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.22 8-10 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.02 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 125 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF 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 5-4-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=-209(LC 10)
 Max Uplift 2=-81(LC 12), 6=-81(LC 12)
 Max Grav 2=933(LC 1), 6=933(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1088/152, 3-4=-988/255, 4-5=-988/255, 5-6=-1088/152
 BOT CHORD 2-10=-1/885, 8-10=0/585, 6-8=-7/778
 WEBS 4-8=-104/535, 5-8=-341/196, 4-10=-104/535, 3-10=-341/196

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-0-0, Exterior(2) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 22-10-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A MiTek 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.



June 11, 2021

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



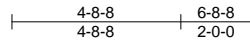
818 Soundside Road
 Edenton, NC 27932

Job 27057-27057A	Truss J2	Truss Type Jack-Closed	Qty 4	Ply 1	79 South CREEK Job Reference (optional)	146525257
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:01:18 2021 Page 1

ID: xRVNaXkOZJH7GTJrWeYcDvzCLCu-Tu5oQgUuPkLdalHqC7E4MLWhEdyb139?XDnHRAz7f!



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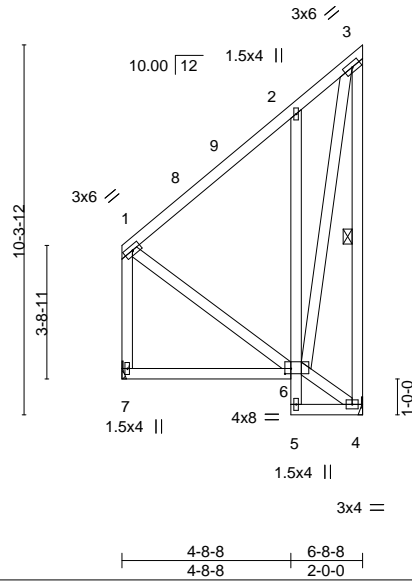


Plate Offsets (X,Y)--	[6:0-2-0,0-1-12]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.03	6-7	>999
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.06	6-7	>999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.52	Horz(CT)	0.01	4	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP				
							PLATES
							MT20
							GRIP
							197/144
							Weight: 78 lb
							FT = 20%

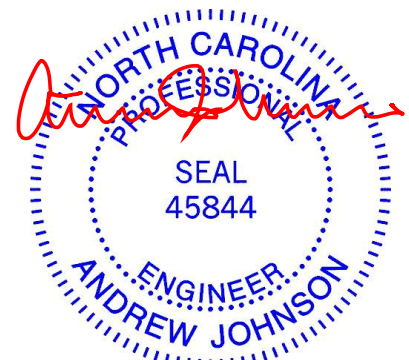
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 or 2x4 SPF No.2 *Except* 2-5: 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 3-4

REACTIONS. (size) 7=Mechanical, 4=Mechanical
 Max Horz 7=228(LC 12)
 Max Uplift 4=174(LC 12)
 Max Grav 7=256(LC 1), 4=298(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 BOT CHORD 6-7=-271/231, 2-6=-350/261
 WEBS 3-4=-395/289, 3-6=-372/514

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-3-12 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=174.



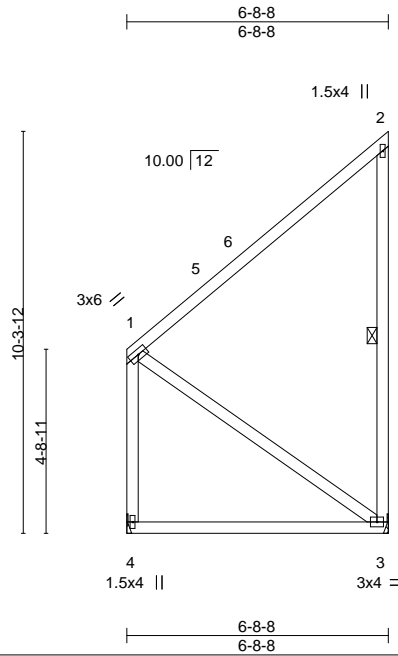
June 11, 2021

Job 27057-27057A	Truss J3	Truss Type Jack-Closed	Qty 2	Ply 1	79 South CREEK Job Reference (optional)	I46525258
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:01:30 2021 Page 1

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Scale = 1:59.1

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 0.87	Vert(LL)	-0.10	3-4	>757	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.53	Vert(CT)	-0.20	3-4	>379		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.36	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP					Weight: 55 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

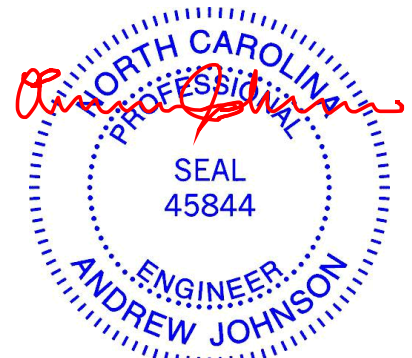
(size) 4=Mechanical, 3=Mechanical
 Max Horz 4=257(LC 12)
 Max Uplift 3=224(LC 12)
 Max Grav 4=257(LC 1), 3=334(LC 17)

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

BOT CHORD 3-4=-298/256
 WEBS 1-3=-312/364

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-6-12 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=224.



June 11, 2021

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

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

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

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



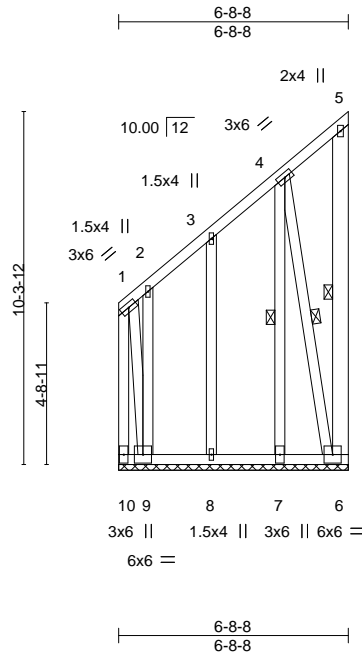
818 Soundside Road
 Edenton, NC 27932

Job 27057-27057A	Truss J4GE	Truss Type GABLE	Qty 1	Ply 1	79 South CREEK Job Reference (optional)	146525259
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:01:44 2021 Page 1

ID:xRVNaXkOZJH7GTJrWeYcDvzCLCu-iugetZpBHjdxiGqjahAPqa0h6tK7oQvG4fLgz7f?L



Scale = 1:67.3

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 0.80	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 100 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3 *Except*
 5-6: 2x6 SP No.2
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 7-11-4 oc bracing: 9-10.
 WEBS 1 Row at midpt 5-6, 4-7, 4-6

REACTIONS.

All bearings 6-8-8.
 (lb) - Max Horz 10=331(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 8 except 10=-474(LC 10), 6=-554(LC 9), 7=-273(LC 10), 9=-682(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 8 except 10=733(LC 9), 6=417(LC 10), 7=536(LC 9), 9=546(LC 10)

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

TOP CHORD 1-10=-1465/1409, 4-5=-211/268
 BOT CHORD 9-10=-564/604, 8-9=-337/388, 7-8=-337/388, 6-7=-337/388
 WEBS 4-7=-1014/951, 1-9=-1390/1460, 4-6=-1021/1045

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 6-5-12 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=682.



June 11, 2021

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

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

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



818 Soundside Road
 Edenton, NC 27932

Job 27057-27057A	Truss M1	Truss Type GABLE	Qty 1	Ply 1	79 South CREEK Job Reference (optional)	146525260
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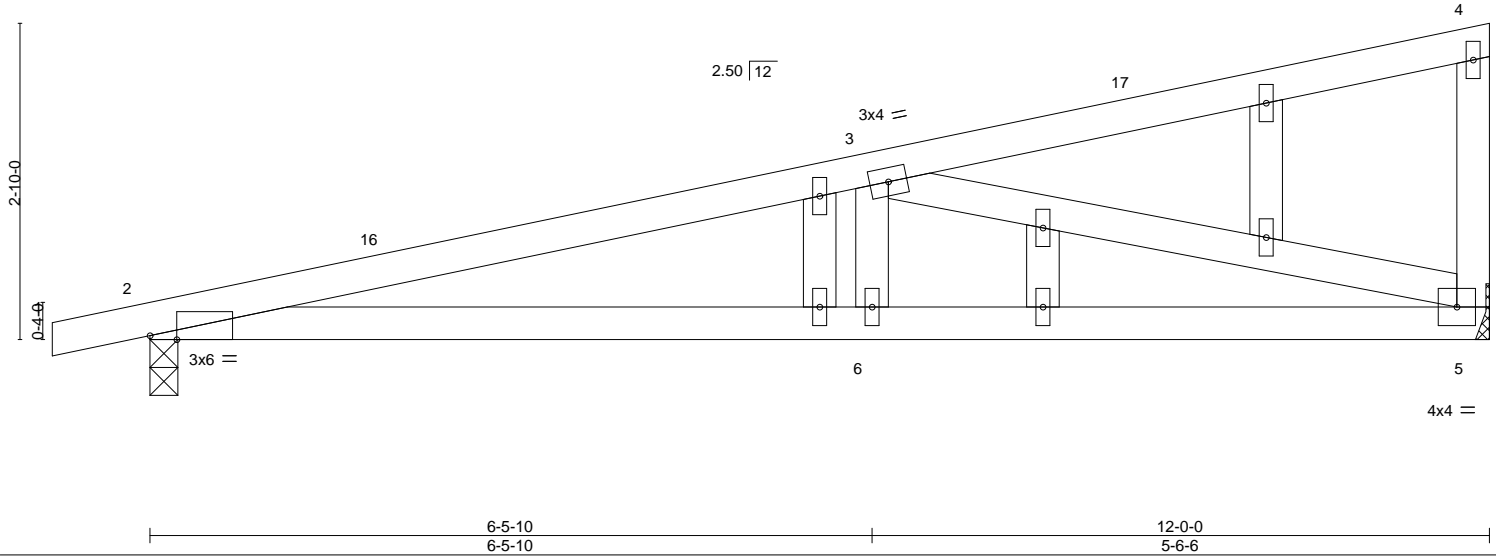
84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:01:55 2021 Page 1

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Scale = 1:20.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.59	Vert(LL) -0.07 6-15 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.73	Vert(CT) -0.15 6-15 >955 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.02 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 55 lb	FT = 20%

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

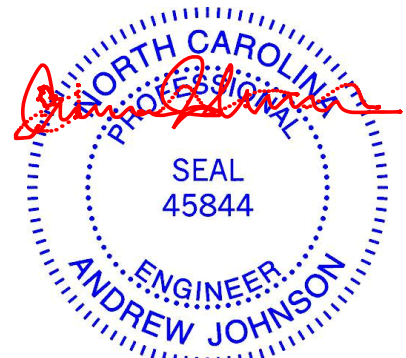
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-11 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-3-0
Max Horz 2=94(LC 11)
Max Uplift 5=69(LC 8), 2=95(LC 8)
Max Grav 5=472(LC 1), 2=529(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1236/386
BOT CHORD 2-6=-473/1194, 5-6=-473/1194
WEBS 3-6=0/271, 3-5=-1233/460

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 11-10-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 1.5x4 MT20 unless otherwise indicated.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
- 9) One RT7A MiTek 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.



June 11, 2021

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

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818 Soundside Road
Edenton, NC 27932

Job 27057-27057A	Truss M2	Truss Type Monopitch	Qty 8	Ply 1	79 South CREEK	146525261
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:02:05 2021 Page 1

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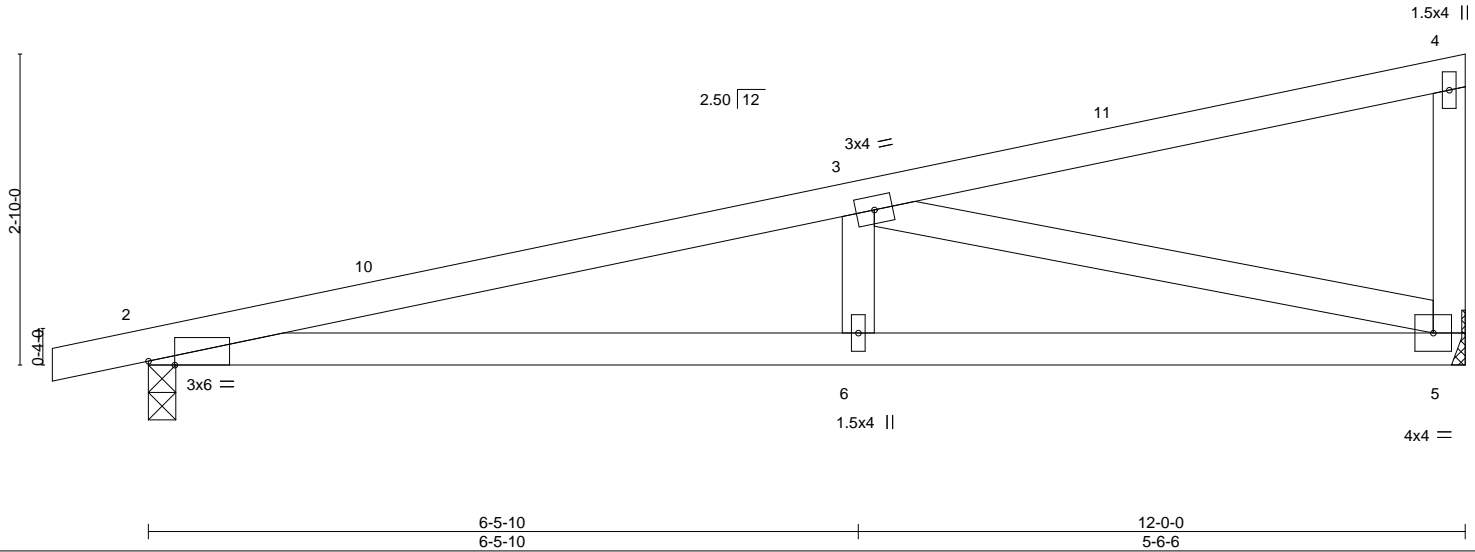


Plate Offsets (X,Y)--	[2:0-2-14,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	-0.07	6-9	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.15	6-9	>955	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP						Weight: 50 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-9-5 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-3-0
 Max Horz 2=94(LC 11)
 Max Uplift 5=69(LC 8), 2=95(LC 8)
 Max Grav 5=472(LC 1), 2=529(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1236/156
 BOT CHORD 2-6=-196/1194, 5-6=-196/1194
 WEBS 3-6=0/271, 3-5=-1233/191

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-10-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
- 6) One RT7A MiTek 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.



June 11, 2021

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

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

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

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



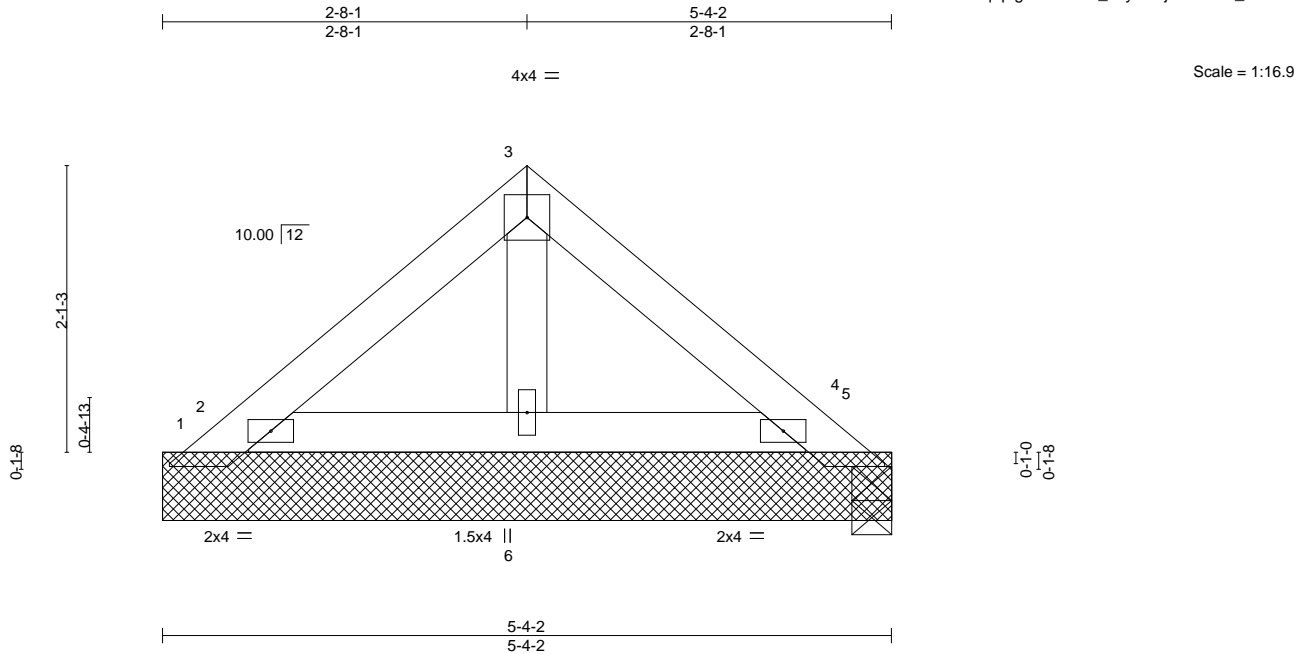
818 Soundside Road
Edenton, NC 27932

Job 27057-27057A	Truss PB2	Truss Type Piggyback	Qty 9	Ply 1	79 South CREEK	146525262
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:02:11 2021 Page 1

ID:XRvNaXKOZJH7GTJrWeYcDvzCLCu-P5orYo77w005RSq0plgW?WCoH_5cy9Dojz7aocZ7f_w



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	2	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	2	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 18 lb	FT = 20%

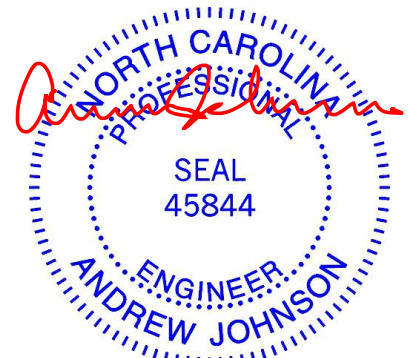
LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 5-4-2.
 (lb) - Max Horz 1=43(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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 Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
 - N/A
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



June 11, 2021

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



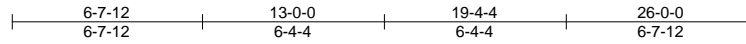
818 Soundside Road
 Edenton, NC 27932

Job 27057-27057A	Truss T1SGE	Truss Type Common Structural Gable	Qty 1	Ply 1	79 South CREEK	146525263
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:04:02 2021 Page 1

ID:xRVNaXkOZJHGTJrWeYcDvzCLCu-fS?oriTin7OLFVpMpZAX?wLhKkrqSGK8EkWxCgz7ezB



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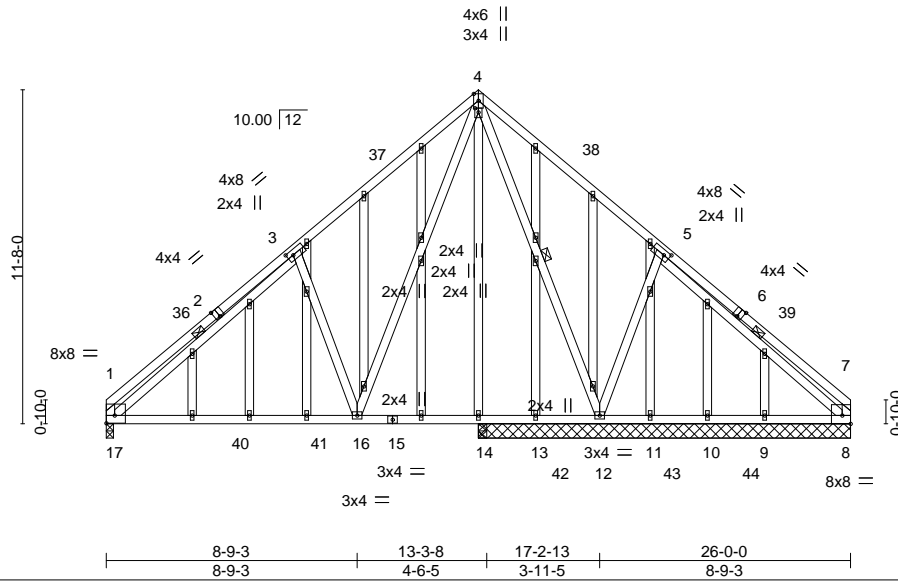


Plate Offsets (X,Y)--	[1:Edge,0-3-4], [2:0-2-0,Edge], [3:0-2-8,0-2-0], [4:0-1-12,0-1-8], [5:0-2-8,0-2-0], [6:0-2-0,Edge], [8:Edge,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	-0.14 16-17	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	-0.29 16-17	>539	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.01 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 271 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* 1-2,6-7: 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-12, 3-17, 5-8
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 13-0-0 except (jt=length) 17=0-3-0, 14=0-3-8, 14=0-3-8.
 (lb) - Max Horz 17=-249(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 17, 8 except 12=-161(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 13, 11, 10, 9, 14, 14 except 12=843(LC 1), 17=692(LC 17), 8=316(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-525/171, 3-4=-662/261, 4-5=-251/199, 5-7=-302/206, 1-17=-439/156, 7-8=-306/177
 BOT CHORD 16-17=-48/653, 14-16=-39/289, 13-14=-39/289, 12-13=-39/289
 WEBS 4-12=-575/0, 5-12=-430/249, 4-16=-136/656, 3-16=-414/243, 3-17=-347/5

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-0-0, Exterior(2) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 25-10-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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=161.



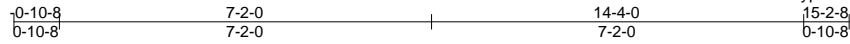
Job 27057-27057A	Truss T3GE	Truss Type Common Supported Gable	Qty 1	Ply 1	79 South CREEK Job Reference (optional)	146525264
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84 Components (Dunn),

Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:04:14 2021 Page 1

ID: xRVNaXkOZJH7GTJrWeYcDvzCLCu-JklMsdHypWeiLkfW4OMUSopZZ4FGIhv?cQad_z7ez?



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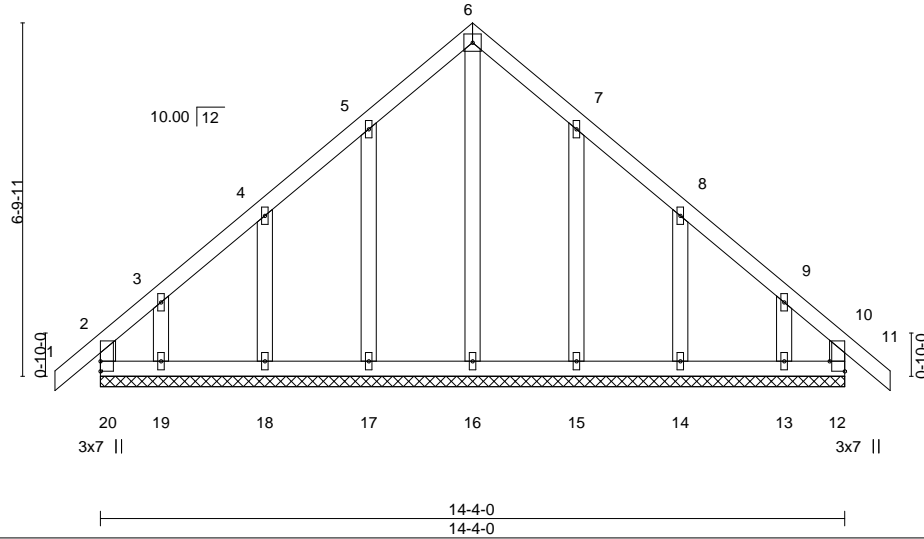


Plate Offsets (X,Y)--	[12:Edge,0-3-8]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	-0.00	11	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	11	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.00	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 90 lb	FT = 20%

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

REACTIONS. All bearings 14-4-0.
 (lb) - Max Horz 20=162(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13
 Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 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 Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 7-2-0, Corner(3) 7-2-0 to 10-2-0, Exterior(2) 10-2-0 to 15-2-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



Job 27057-27057A	Truss T10	Truss Type Common	Qty 1	Ply 1	79 South CREEK	146525266
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84 Components (Dunn), Dunn, NC - 28334,

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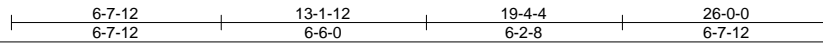
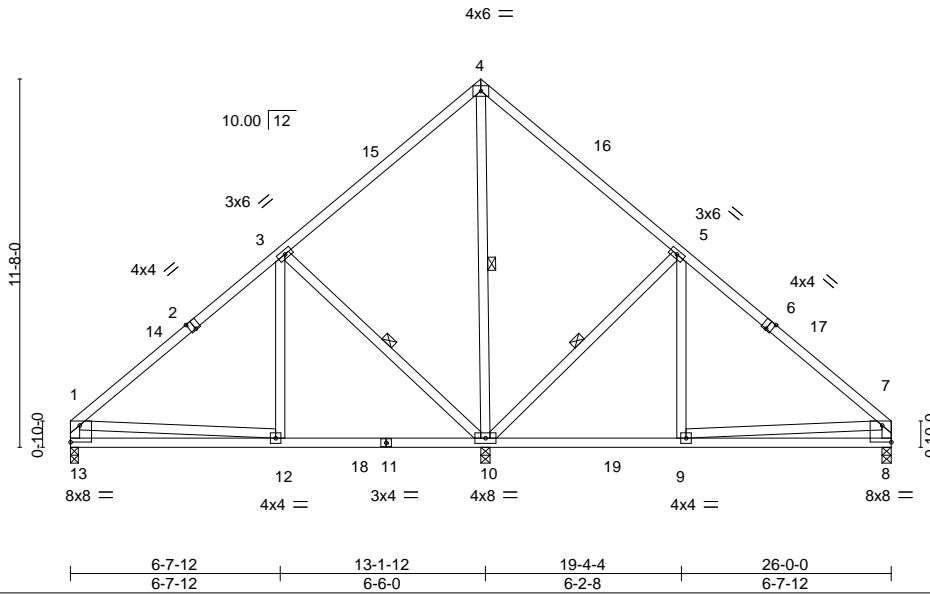


Plate Offsets (X, Y)--	[2:0-2-0,Edge], [6:0-2-0,Edge], [8:Edge,0-6-6], [13:Edge,0-6-6]
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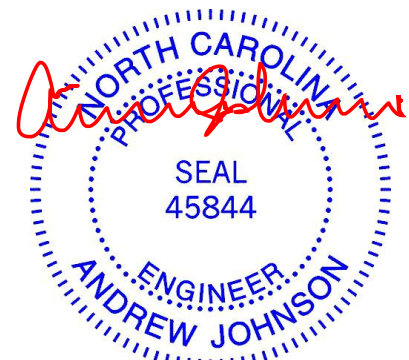
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) -0.04 8-9 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.09 8-9 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.29	Horz(CT) 0.01 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 168 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-10, 5-10, 3-10

REACTIONS. (size) 13=0-3-0, 10=0-3-8, 8=0-3-8
 Max Horz 13=249(LC 11)
 Max Uplift 13=-6(LC 12), 10=-113(LC 12), 8=-5(LC 12)
 Max Grav 13=466(LC 21), 10=1164(LC 17), 8=455(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-471/57, 5-7=-454/51, 1-13=-408/72, 7-8=-395/67
 BOT CHORD 12-13=-163/382, 10-12=-75/391, 9-10=0/266
 WEBS 4-10=-431/0, 5-10=-517/176, 5-9=0/270, 3-10=-525/174, 3-12=0/278

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-0-0, Exterior(2) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 25-10-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 10=113.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 8. This connection is for uplift only and does not consider lateral forces.



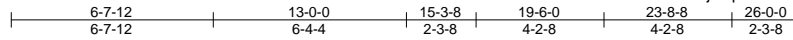
June 11, 2021

Job 27057-27057A	Truss T11	Truss Type Roof Special	Qty 1	Ply 1	79 South CREEK	146525267
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:03:26 2021 Page 1

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8x8 =

Scale = 1:75.8

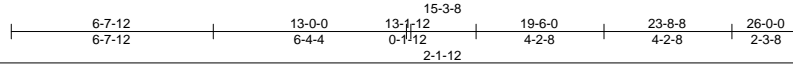
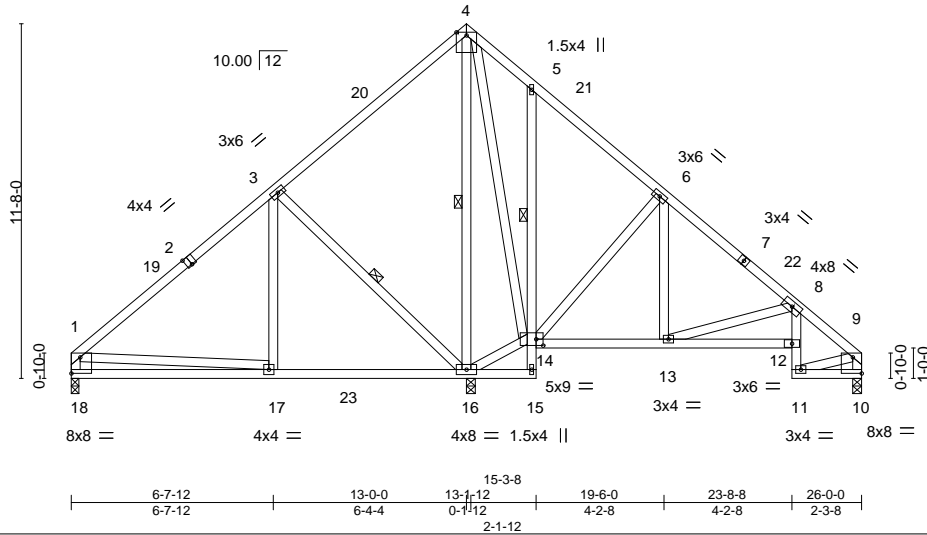


Plate Offsets (X, Y)-- [2:0-2-0,Edge], [10:Edge,0-6-6], [14:0-2-12,0-2-8], [18:Edge,0-6-6]

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 0.60	Vert(LL)	-0.04	17-18	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.08	17-18	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.05	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 198 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
5-15,8-11: 2x4 SP No.3
WEBS 2x4 SP No.3

REACTIONS. (size) 18=0-3-0, 10=0-3-8, 16=0-3-8
Max Horz 18=-249(LC 10)
Max Uplift 18=-9(LC 12), 10=-9(LC 12), 16=-107(LC 12)
Max Grav 18=394(LC 21), 10=315(LC 22), 16=1450(LC 1)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 5-14
WEBS 1 Row at midpt 3-16, 4-16

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-370/113, 3-4=0/397, 4-5=-2/256, 5-6=0/267, 8-9=-339/35, 1-18=-336/73, 9-10=-322/33
BOT CHORD 17-18=-170/375, 16-17=-154/263, 12-13=-24/403
WEBS 3-17=0/287, 3-16=-533/176, 4-16=-904/26, 14-16=-424/239, 4-14=-94/383, 6-14=-413/122, 6-13=0/267, 8-13=-336/124

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-0-0, Exterior(2) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 25-10-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18, 10, and 16. This connection is for uplift only and does not consider lateral forces.



June 11, 2021

Job 27057-27057A	Truss T12	Truss Type Roof Special Girder	Qty 1	Ply 2	79 South CREEK Job Reference (optional)	I46525268
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Jun 10 15:03:59 2021 Page 2
ID:xRVNaXkOZJH7GTJrWeYcDvzCLCu-FtKgDjRtUCdnO25n7RcqNlg7NWnnFtMiYmHHbLz7ezE

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-260(F=-200), 4-9=-60, 14-17=-20, 11-13=-20, 10-20=-20

Concentrated Loads (lb)

Vert: 11=-237(B) 23=-237(B) 24=-236(B) 25=-236(B) 26=-236(B) 27=-236(B)

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

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



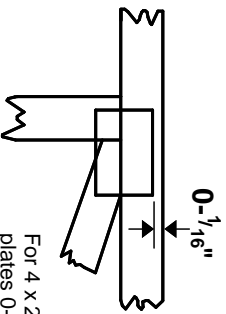
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

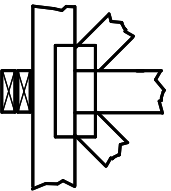
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.