

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: 20040A
140.1445 B 10x10CP REV1

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

Pages or sheets covered by this seal: I36342406 thru I36342441

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

North Carolina COA: C-0844



March 8, 2019

Sevier, Scott

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job 20040A	Truss A1	Truss Type ROOF TRUSS	Qty 4	Ply 1	140.1445 B 10x10CP REV1	136342406
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:54:40 2019 Page 1

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Scale = 1:76.8

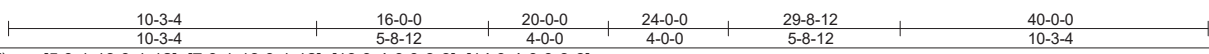
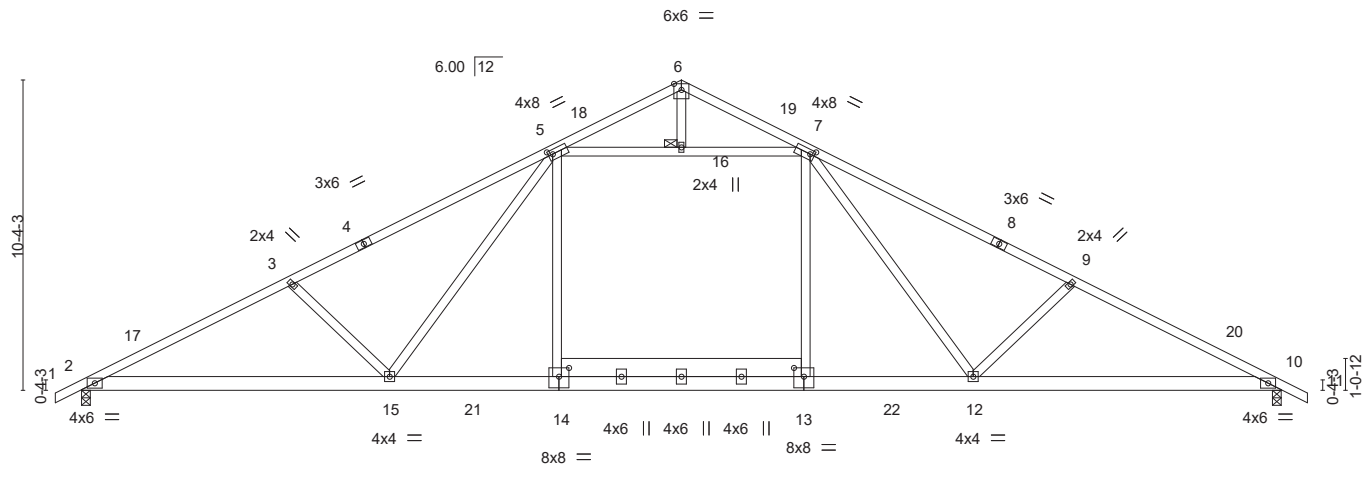


Plate Offsets (X,Y)--	[5:0-1-13,0-1-12], [7:0-1-13,0-1-12], [13:0-4-0,0-3-8], [14:0-4-0,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.35	12-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.97	Vert(CT)	-0.49	12-13	>976		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.11	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Attic	-0.25	13-14	394	Weight: 266 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP DSS *Except* 1-4,8-11: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x6 SP No.2 *Except* 13-14: 2x8 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 16 This truss requires both edges of the bottom chord to be sheathed in the room area.

REACTIONS. (lb/size) 2=1691/0-3-8, 10=1691/0-3-8
 Max Horz 2=174(LC 16)
 Max Uplift 2=-184(LC 12), 10=-184(LC 13)
 Max Grav 2=1813(LC 2), 10=1813(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3483/355, 3-5=-3210/314, 5-6=-416/53, 6-7=-416/53, 7-9=-3210/314,
 9-10=-3483/355
 BOT CHORD 2-15=-400/3055, 14-15=-76/2552, 13-14=-74/2550, 12-13=-80/2552, 10-12=-226/3055
 WEBS 7-12=-217/742, 9-12=-489/291, 5-15=-206/742, 3-15=-489/291, 5-14=-91/782,
 5-16=-2247/289, 7-16=-2247/289, 7-13=-91/782

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 20-0-0, Exterior(2) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 5-16, 7-16
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-14
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



March 8, 2019

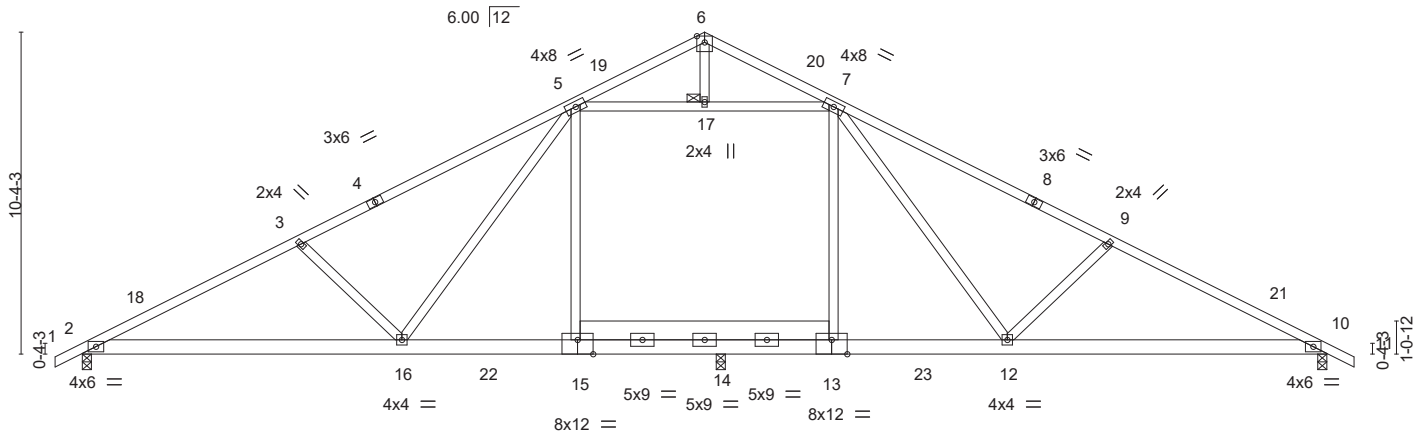
Job 20040A	Truss A1A	Truss Type ROOF TRUSS	Qty 1	Ply 1	140.1445 B 10x10CP REV1	136342407
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8.220 s Jan 5 2019 MiTek Industries, Inc. Fri Mar 8 09:18:06 2019 Page 1

0-10-8	7-0-5	10-3-4	20-0-0	26-5-13	32-11-11	40-0-0	40-10-8
0-10-8	7-0-5	3-2-15	9-8-12	6-5-13	6-5-13	7-0-5	0-10-8

6x6 =

Scale = 1:74.1



7-0-5	10-3-4	20-6-4	29-8-12	40-0-0
7-0-5	3-2-15	10-3-0	9-2-8	10-3-4

Plate Offsets (X,Y)-- [13:0-6-0,Edge], [15:0-6-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.92	Vert(LL) -0.30	15-16	>826	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.77	Vert(CT) -0.41	15-16	>590	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.99	Horz(CT) 0.03	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Attic -0.26	14-15	421	360		
							Weight: 266 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP DSS *Except*	BOT CHORD Rigid ceiling directly applied or 4-9-12 oc bracing.
WEBS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 17
	This truss requires both edges of the bottom chord be sheathed in the room area.

REACTIONS. (lb/size) 2=986/0-3-8, 10=948/0-3-8, 14=1448/0-3-8
 Max Horz 2=174(LC 12)
 Max Uplift 2=-176(LC 12), 10=-115(LC 13), 14=-134(LC 13)
 Max Grav 2=1023(LC 24), 10=948(LC 1), 14=1771(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-18=-1713/314, 3-18=-1549/340, 3-4=-1405/255, 4-5=-1299/298, 5-19=-272/27,
 7-20=-277/28, 7-8=-1102/187, 8-9=-1202/143, 9-21=-1340/205, 10-21=-1505/179
 BOT CHORD 2-16=-387/1476, 16-22=-58/727, 15-22=-56/735, 14-15=-57/731, 13-14=-57/731,
 13-23=-59/743, 12-23=-62/733, 10-12=-93/1277
 WEBS 3-16=-490/291, 5-16=-212/941, 9-12=-486/291, 7-13=-843/314, 7-12=-235/866,
 5-15=-718/235, 5-17=-513/260, 7-17=-513/260

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 20-0-0, Exterior(2) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 40-10-8 zone; 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) Ceiling dead load (5.0 psf) on member(s). 5-17, 7-17
 - 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-15, 13-14
 - 7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 10, and 14. This connection is for uplift only and does not consider lateral forces.
 - 8) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard



March 8, 2019

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

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



818 Soundside Road
Edenton, NC 27932

Job 20040A	Truss B1	Truss Type Common	Qty 2	Ply 1	140.1445 B 10x10CP REV1	136342408
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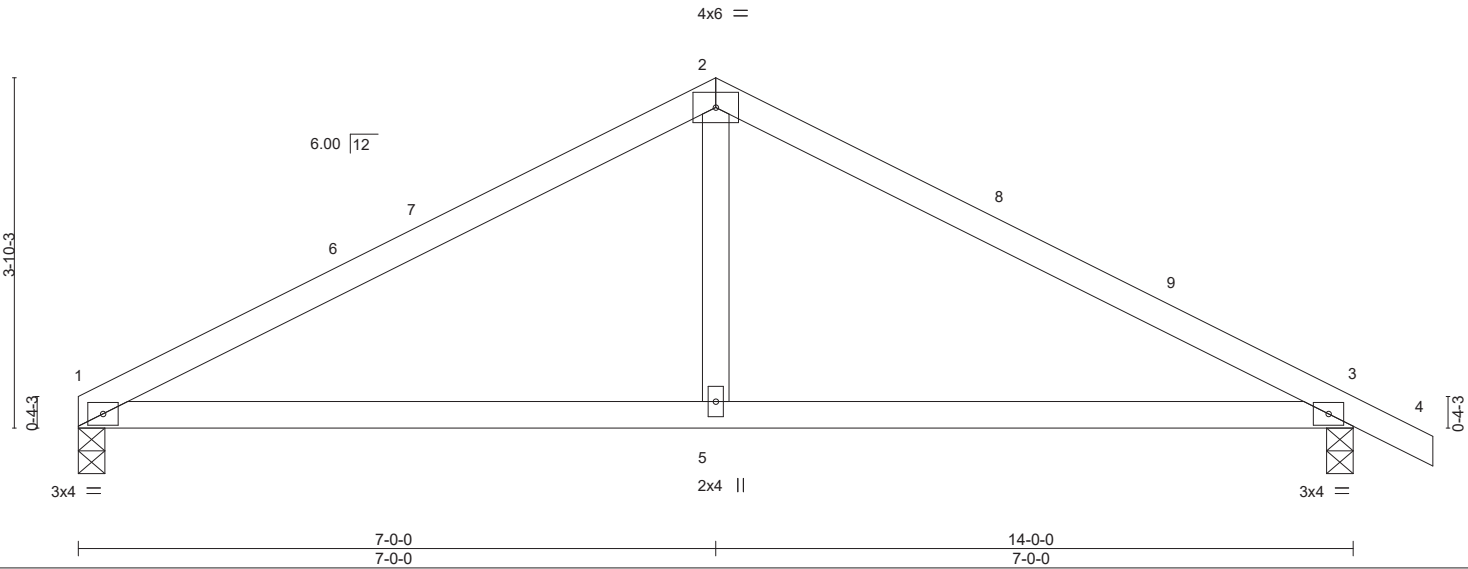
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:54:42 2019 Page 1

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Scale = 1:25.3



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 0.79	Vert(LL)	-0.05	1-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.12	1-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 51 lb	FT = 20%

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

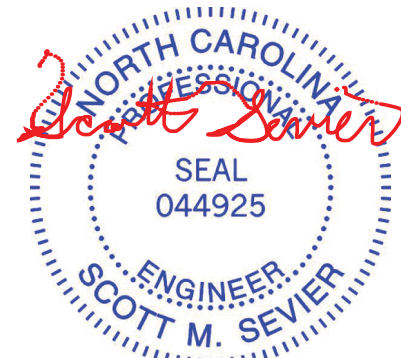
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=546/0-3-8, 3=612/0-3-8
 Max Horz 1=-72(LC 13)
 Max Uplift 1=-64(LC 12), 3=-87(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-781/140, 2-3=-783/131
 BOT CHORD 1-5=-27/616, 3-5=-27/616
 WEBS 2-5=0/336

NOTES-

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



March 8, 2019

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



818 Soundside Road
 Edenton, NC 27932

Job 20040A	Truss BE	Truss Type Common Supported Gable	Qty 1	Ply 1	140.1445 B 10x10CP REV1	136342409
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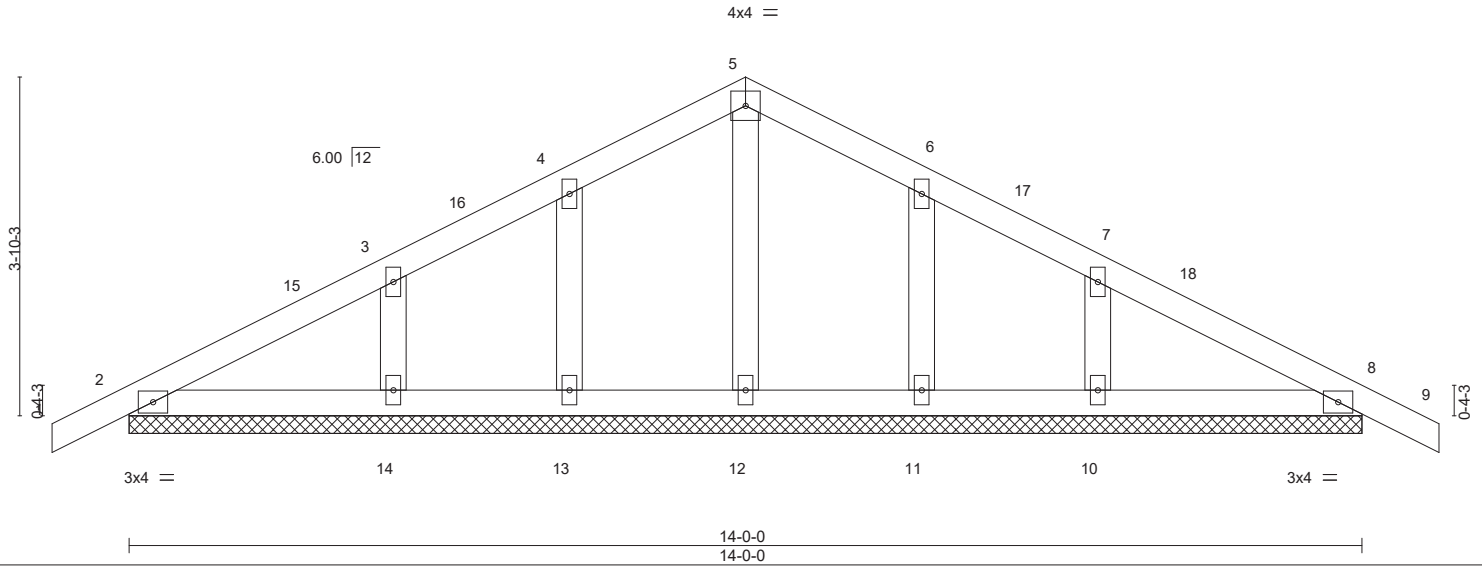
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:54:43 2019 Page 1

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Scale = 1:26.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	0.00	9	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	0.00	9	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 63 lb	FT = 20%

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

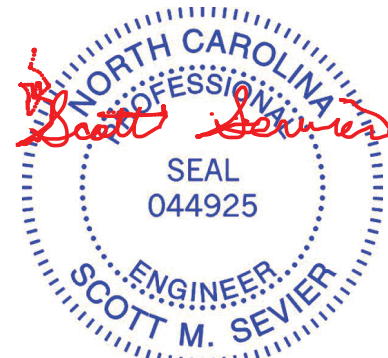
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-0-0.
 (lb) - Max Horz 2=66(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 7-0-0, Corner(3) 7-0-0 to 10-0-0, Exterior(2) 10-0-0 to 14-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.



March 8, 2019

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

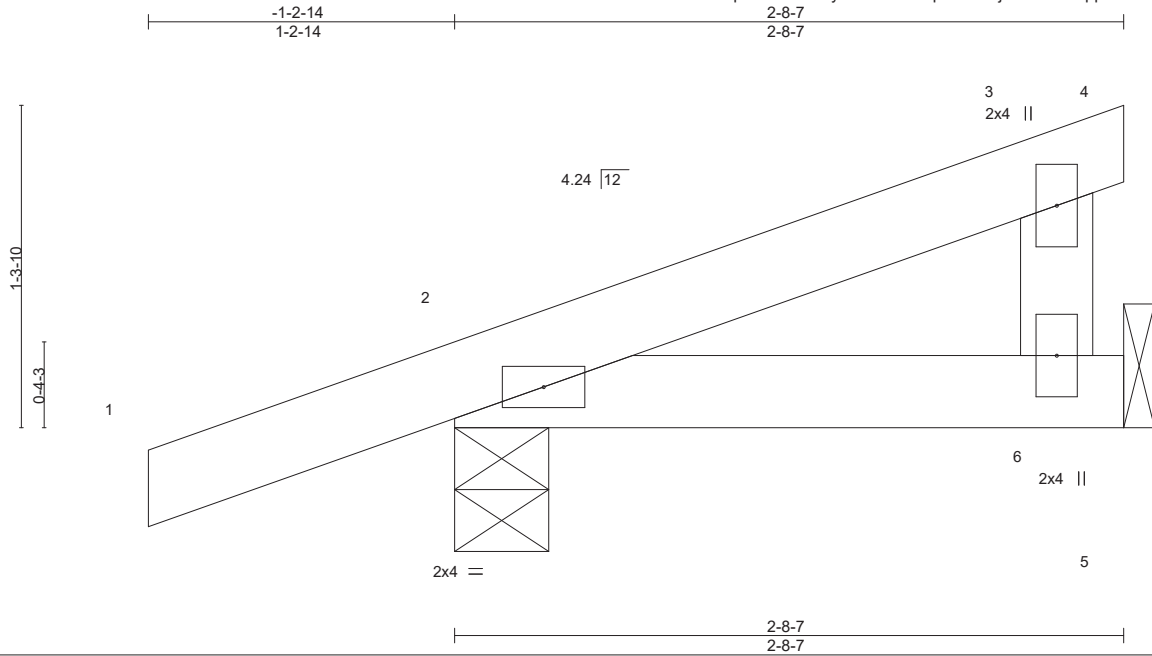


818 Soundside Road
 Edenton, NC 27932

Job 20040A	Truss CJ1	Truss Type Diagonal Hip Girder	Qty 3	Ply 1	140.1445 B 10x10CP REV1	136342410
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:54:44 2019 Page 1
ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-i1psS8DWj2W6t4ANPppRcOATUDY?2hyn7jbFhSzd1P9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	-0.00	2-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	2-6	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						
								Weight: 11 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 6=74/Mechanical, 2=202/0-4-9
 Max Horz 2=58(LC 8)
 Max Uplift 6=-17(LC 12), 2=-84(LC 8)
 Max Grav 6=75(LC 3), 2=202(LC 1)

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

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



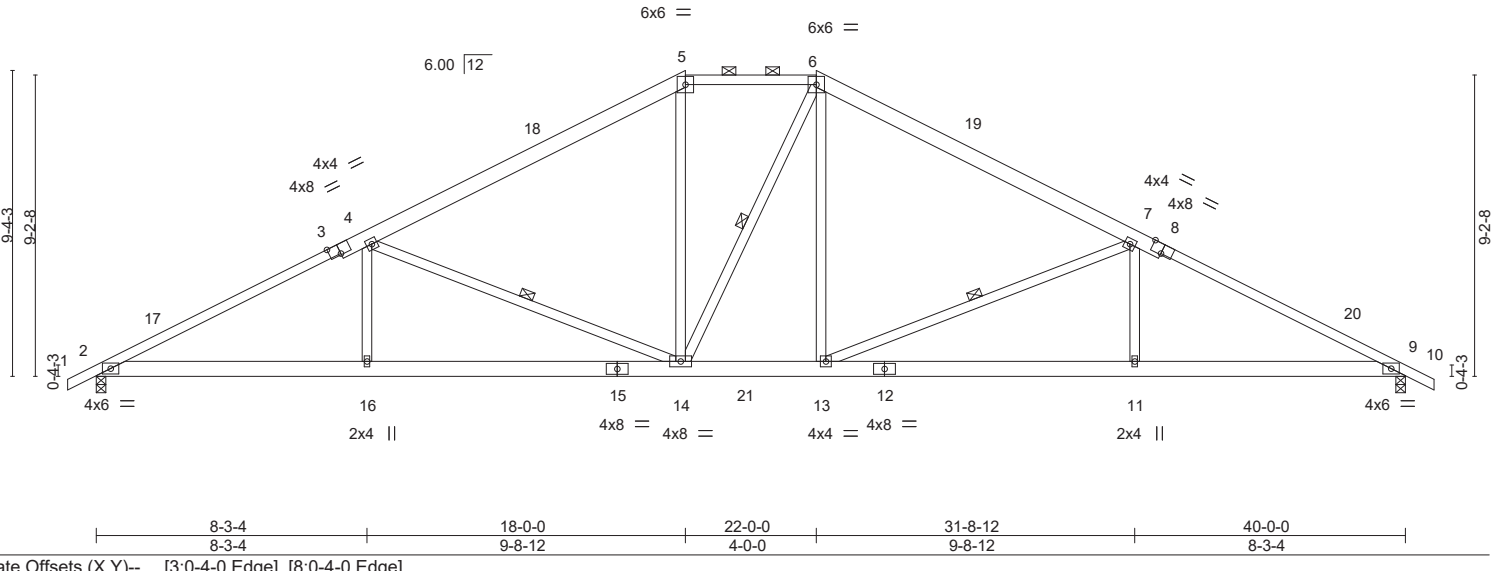
Job	Truss	Truss Type	Qty	Ply	140.1445 B 10x10CP REV1	136342411
20040A	H1	Hip	1	1		
84 Components (Dunn), Dunn, NC - 28334,						Job Reference (optional)

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:54:45 2019 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-BDNEFUE8UMezUEIzZwKg9ciSwdlDn0vwMNL0Evzd1P8

-0-10-8	6-4-5	8-3-4	12-2-3	18-0-0	22-0-0	27-9-13	31-8-12	33-7-11	40-0-0	40-10-8
0-10-8	6-4-5	1-10-15	3-10-15	5-9-13	4-0-0	5-9-13	3-10-15	1-10-15	6-4-5	0-10-8

Scale = 1:70.4



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 0.99	Vert(LL)	-0.14 11-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.32 11-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.11 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 262 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except
5-6: 2x4 SP No.2, 1-3,8-10: 2x4 SP No.1	2-0-0 oc purlins (4-1-2 max.): 5-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-14, 6-14, 7-13

REACTIONS. (lb/size)	2=1650/0-3-8, 9=1650/0-3-8
	Max Horz 2=-156(LC 17)
	Max Uplift 2=-196(LC 12), 9=-196(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-3078/380, 4-5=-2148/354, 5-6=-1790/376, 6-7=-2146/355, 7-9=-3079/380
BOT CHORD 2-16=-343/2675, 14-16=-343/2675, 13-14=-69/1787, 11-13=-249/2676, 9-11=-249/2676
WEBS 4-16=0/393, 4-14=-956/311, 5-14=-34/539, 6-13=-39/535, 7-13=-958/311, 7-11=0/396

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-0-0, Exterior(2) 18-0-0 to 26-2-15, Interior(1) 26-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 8, 2019

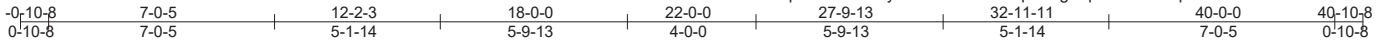
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	140.1445 B 10x10CP REV1	136342412
20040A	H1A	ROOF TRUSS	1	1		

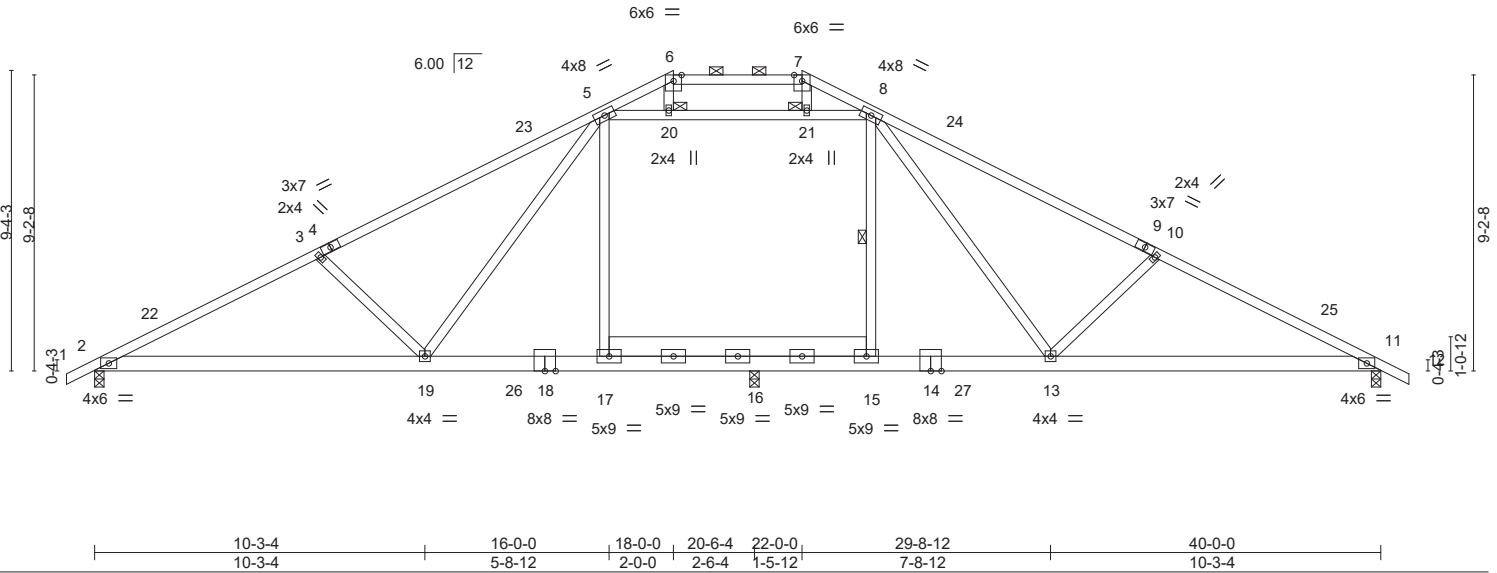
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:54:46 2019 Page 1

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Scale = 1:71.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.92	Vert(LL) -0.32	17-19	>776	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.85	Vert(CT) -0.43	17-19	>564		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT) 0.02	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Attic -0.27	16-17	415	Weight: 265 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2 *Except*	2-0-0 oc purlins (6-0-0 max.): 6-7.
15-17: 2x8 SP No.2, 14-18: 2x6 SP DSS	Rigid ceiling directly applied or 5-4-4 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 8-15
	JOINTS 1 Brace at Jt(s): 20, 21
	This truss requires both edges of the bottom chord be sheathed in the room area.

REACTIONS. (lb/size) 2=975/0-3-8, 11=937/0-3-8, 16=1470/0-3-8
 Max Horz 2=157(LC 16)
 Max Uplift 2=-172(LC 12), 11=-120(LC 13), 16=-99(LC 13)
 Max Grav 2=1026(LC 24), 11=937(LC 1), 16=1800(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1720/328, 3-5=-1403/286, 5-6=-370/64, 6-7=-261/56, 7-8=-343/62,
 8-10=-1176/224, 10-11=-1479/238
 BOT CHORD 2-19=-359/1472, 17-19=-33/693, 16-17=-41/745, 15-16=-30/747, 13-15=-33/693,
 11-13=-109/1255
 WEBS 3-19=-493/291, 5-19=-211/971, 8-13=-216/868, 10-13=-487/291, 8-15=-863/276,
 5-17=-766/221, 5-20=-432/286, 20-21=-438/285, 8-21=-430/286

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-0-0, Exterior(2) 18-0-0 to 26-2-15, Interior(1) 26-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Ceiling dead load (5.0 psf) on member(s). 5-20, 20-21, 8-21
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 16-17, 15-16
 - 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 11, and 16. This connection is for uplift only and does not consider lateral forces.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



Job	Truss	Truss Type	Qty	Ply	140.1445 B 10x10CP REV1	136342413
20040A	H2	Hip	1	1		

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:54:48 2019 Page 1

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-0-10-8	7-9-4	16-0-0	24-0-0	32-2-12	40-0-0	40-10-8
0-10-8	7-9-4	8-2-12	8-0-0	8-2-12	7-9-4	0-10-8

Scale = 1:70.7

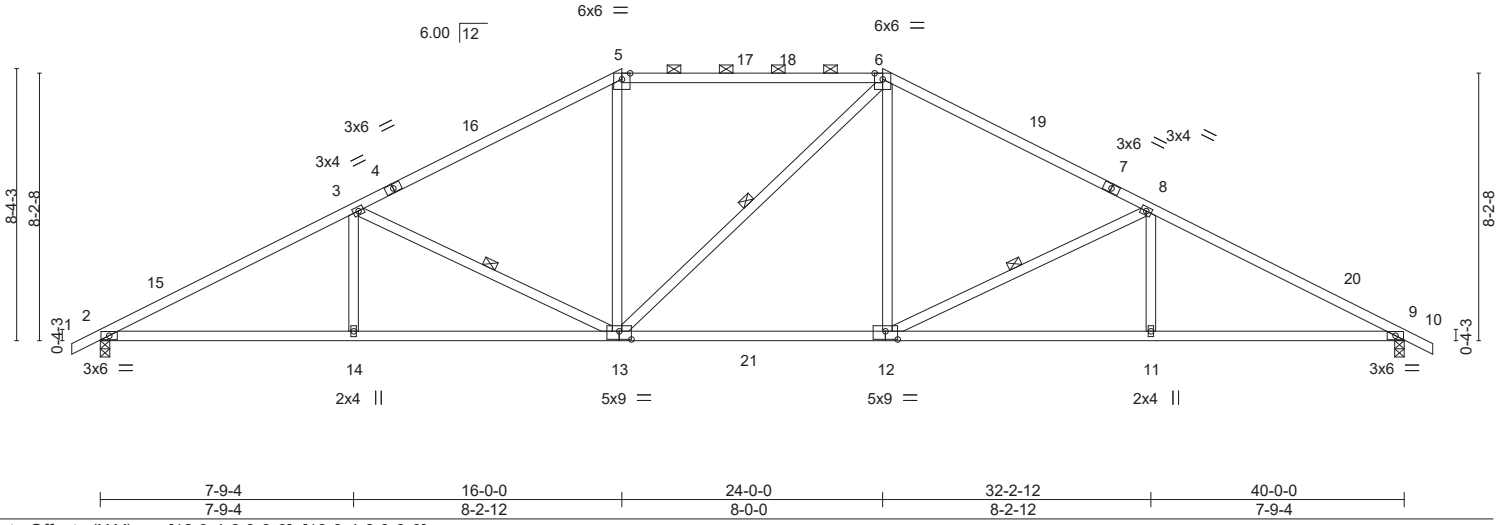


Plate Offsets (X,Y)--	[12:0-4-8,0-3-0], [13:0-4-8,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.92	Vert(LL) -0.24 12-13 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -0.46 12-13 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.16 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 204 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* 5-6: 2x4 SP DSS	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-9-12 max.): 5-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-13, 6-13, 8-12

REACTIONS. (lb/size) 2=1650/0-3-8, 9=1650/0-3-8
 Max Horz 2=140(LC 12)
 Max Uplift 2=-180(LC 12), 9=-180(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3021/385, 3-5=-2277/371, 5-6=-1930/390, 6-8=-2276/371, 8-9=-3022/385
 BOT CHORD 2-14=-292/2609, 13-14=-292/2609, 12-13=-113/1929, 11-12=-262/2610, 9-11=-262/2610
 WEBS 3-14=0/341, 3-13=-755/263, 5-13=0/564, 6-12=-15/564, 8-12=-756/263, 8-11=0/341

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-0-0, Exterior(2) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 24-0-0, Exterior(2) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

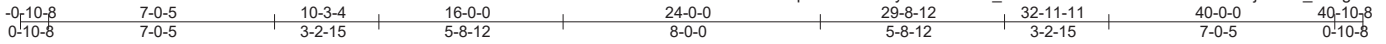


Job	Truss	Truss Type	Qty	Ply	140.1445 B 10x10CP REV1	136342414
20040A	H2A	ROOF TRUSS	1	1		

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:54:49 2019 Page 1

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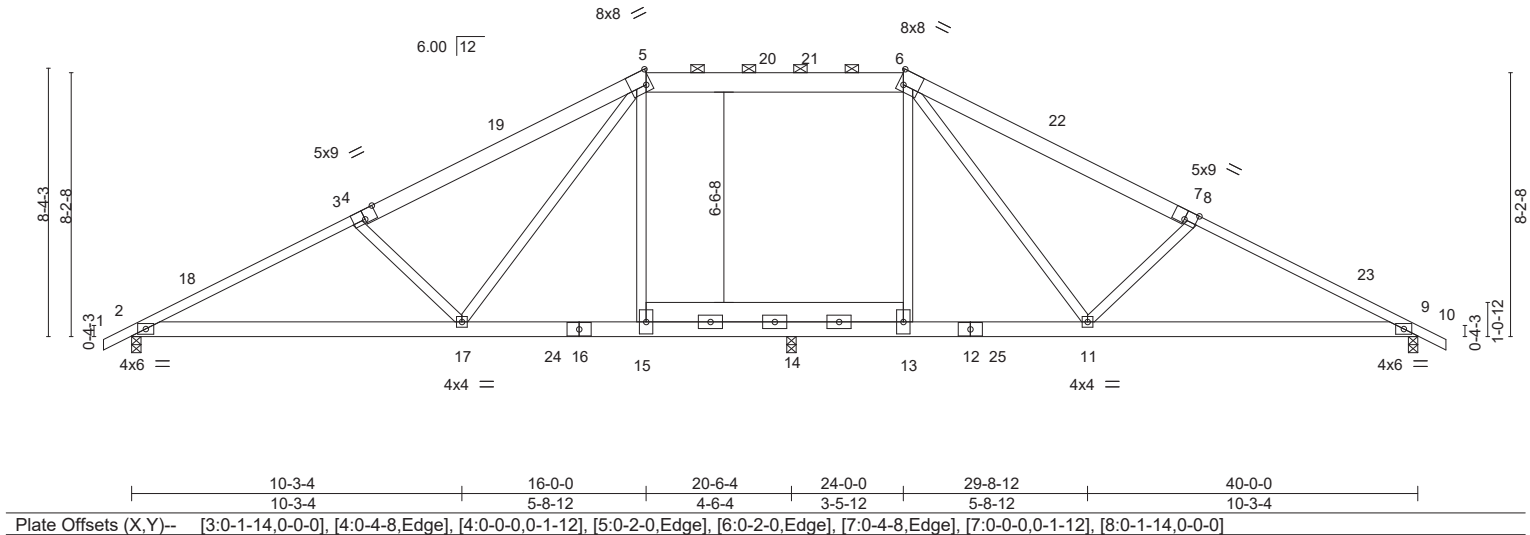


Plate Offsets (X,Y)--	[3:0-1-14,0-0-0], [4:0-4-8,Edge], [4:0-0-0,0-1-12], [5:0-2-0,Edge], [6:0-2-0,Edge], [7:0-4-8,Edge], [7:0-0-0,0-1-12], [8:0-1-14,0-0-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.94	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.72	Vert(LL) -0.25 15-17 >995 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.87	Vert(CT) -0.35 15-17 >699 180		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Horz(CT) 0.03 9 n/a n/a		
			Attic -0.21 14-15 534 360	Weight: 278 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 5-6: 2x8 SP No.2, 1-4,7-10: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x6 SP No.2 *Except* 12-16: 2x6 SP DSS, 13-15: 2x8 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-11-2 oc bracing.
WEBS 2x4 SP No.3	This truss requires both edges of the bottom chord be sheathed in the room area.

REACTIONS. (lb/size) 2=1011/0-3-8, 9=975/0-3-8, 14=1393/0-3-8
 Max Horz 2=138(LC 12)
 Max Uplift 2=-170(LC 12), 9=-133(LC 13), 14=-45(LC 13)
 Max Grav 2=1051(LC 24), 9=975(LC 1), 14=1719(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1752/311, 3-5=-1452/267, 5-6=-717/259, 6-8=-1259/245, 8-9=-1551/260
 BOT CHORD 2-17=-322/1496, 15-17=-38/741, 14-15=-42/800, 13-14=-35/805, 11-13=-41/745,
 9-11=-140/1315
 WEBS 5-17=-185/915, 5-15=-687/164, 6-13=-777/206, 6-11=-193/823, 3-17=-468/288,
 8-11=-464/290

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-0-0, Exterior(2) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 24-0-0, Exterior(2) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x9 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 5-6
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-15, 13-14
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 9, and 14. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



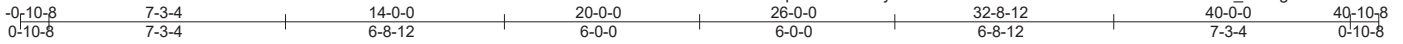
March 8, 2019

Job 20040A	Truss H3	Truss Type Hip	Qty 1	Ply 1	140.1445 B 10x10CP REV1	136342415
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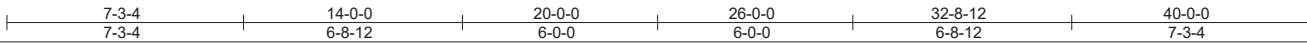
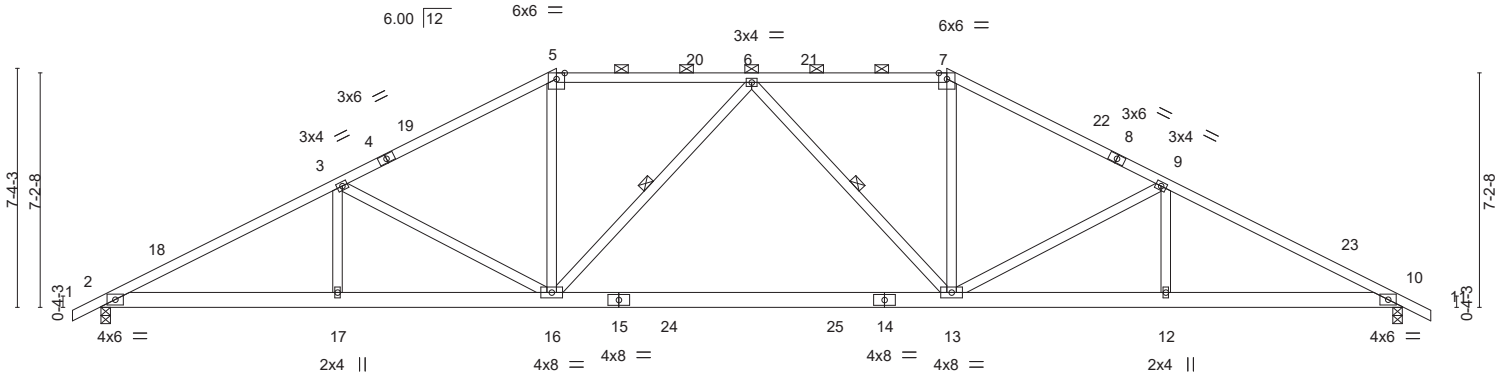
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:54:50 2019 Page 1

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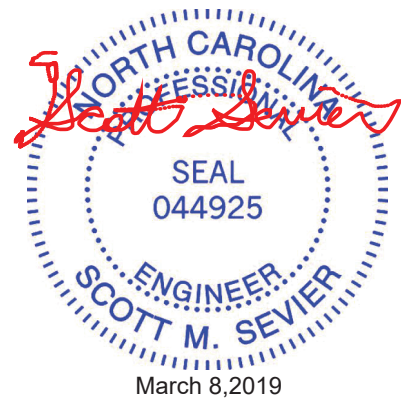
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.28 13-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.85	Vert(CT)	-0.56 13-16	>855	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.11 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 238 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-6-11 max.): 5-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-16, 6-13

REACTIONS. (lb/size) 2=1650/0-3-8, 10=1650/0-3-8
 Max Horz 2=123(LC 12)
 Max Uplift 2=-162(LC 12), 10=-162(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3062/413, 3-5=-2468/381, 5-6=-2112/387, 6-7=-2112/387, 7-9=-2468/381, 9-10=-3062/412
 BOT CHORD 2-17=-281/2654, 16-17=-281/2654, 13-16=-198/2307, 12-13=-288/2654, 10-12=-288/2654
 WEBS 3-16=-608/240, 5-16=-31/738, 6-16=-431/177, 6-13=-431/177, 7-13=-31/738, 9-13=-608/241

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 14-0-0, Exterior(2) 14-0-0 to 18-2-15, Interior(1) 18-2-15 to 26-0-0, Exterior(2) 26-0-0 to 30-2-15, Interior(1) 30-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

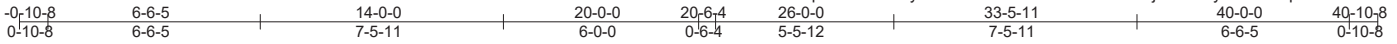


Job	Truss	Truss Type	Qty	Ply	140.1445 B 10x10CP REV1	136342416
20040A	H3A	Hip	1	1		

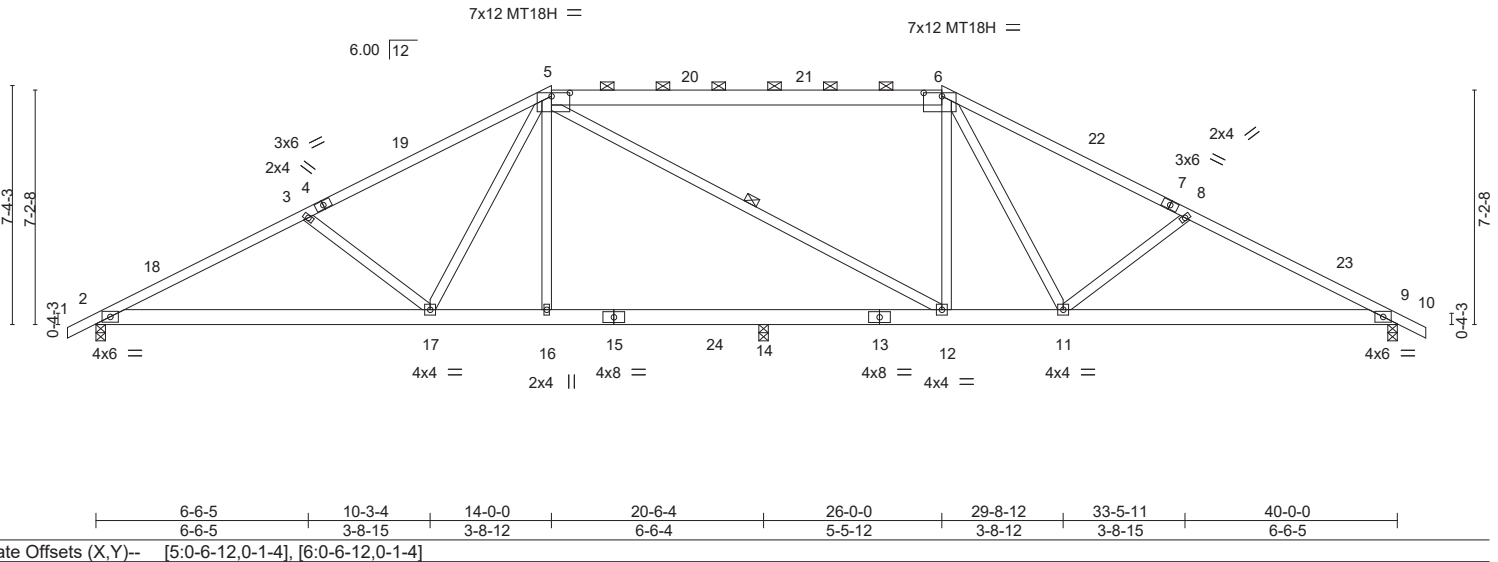
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:54:51 2019 Page 1

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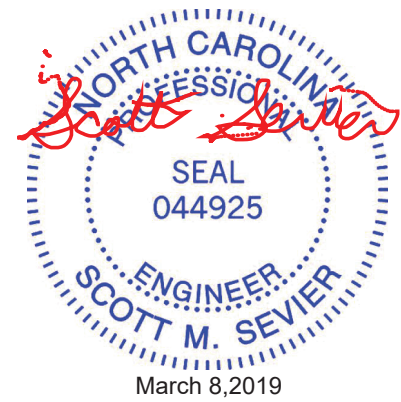
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.90	Vert(LL) -0.13 16-17 >999 240	MT20 244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(CT) -0.25 2-17 >961 180	MT18H 244/190	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.27	Horz(CT) 0.08 9 n/a n/a		Weight: 247 lb FT = 20%
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 5-6: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-10-7 max.): 5-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-12: 2x4 SP No.2	WEBS 1 Row at midpt 5-12

REACTIONS. (lb/size) 2=1447/0-3-8, 9=1436/0-3-8, 14=417/0-3-8
 Max Horz 2=122(LC 16)
 Max Uplift 2=-193(LC 12), 9=-198(LC 13)
 Max Grav 2=1447(LC 1), 9=1436(LC 1), 14=474(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2619/496, 3-5=-2285/454, 5-6=-1639/453, 6-8=-2263/456, 8-9=-2596/499
 BOT CHORD 2-17=-365/2274, 16-17=-195/1667, 14-16=-197/1670, 12-14=-197/1670, 11-12=-206/1635,
 9-11=-375/2254
 WEBS 5-17=-77/620, 5-12=-270/179, 6-12=-271/93, 6-11=-71/644, 3-17=-403/265,
 8-11=-403/265

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 14-0-0, Exterior(2) 14-0-0 to 18-2-15, Interior(1) 18-2-15 to 26-0-0, Exterior(2) 26-0-0 to 30-2-15, Interior(1) 30-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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

TRENCO ENGINEERING BY
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1445 B 10x10CP REV1	136342417
20040A	H4	Hip	1	1		

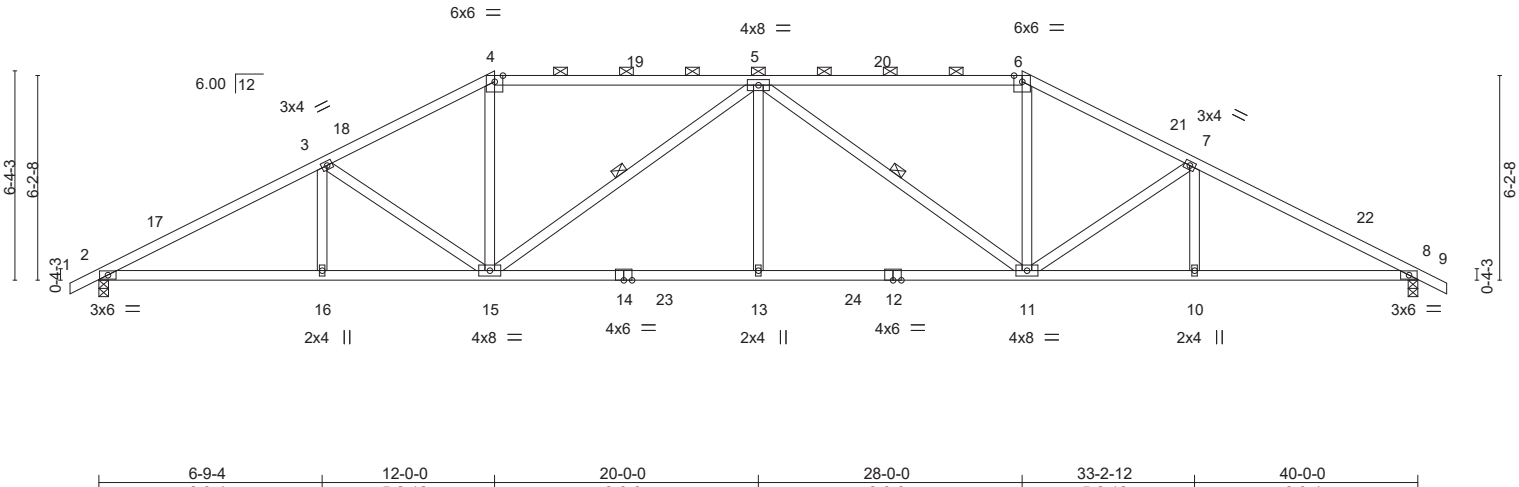
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:54:52 2019 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-TZIt7tJXqWWzqJnvtUyJx4VgcS3hwCSyzyXg_?zd1P1



Scale = 1:69.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.96	Vert(LL)	-0.21	13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.47	11-13	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.17	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 207 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-6: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-2-0 max.): 4-6.
BOT CHORD 2x4 SP No.2 *Except* 12-14: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-15, 5-11

REACTIONS. (lb/size) 2=1650/0-3-8, 8=1650/0-3-8
Max Horz 2=106(LC 16)
Max Uplift 2=-142(LC 12), 8=-142(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3039/417, 3-4=-2573/412, 4-5=-2227/406, 5-6=-2227/406, 6-7=-2573/412,
7-8=-3039/417
BOT CHORD 2-16=-291/2626, 15-16=-291/2626, 13-15=-248/2749, 11-13=-248/2749, 10-11=-296/2626,
8-10=-296/2626
WEBS 3-15=-467/185, 4-15=-38/772, 5-15=-790/171, 5-13=0/384, 5-11=-790/171,
6-11=-38/772, 7-11=-467/186

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-0-0, Exterior(2) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 28-0-0, Exterior(2) 28-0-0 to 32-2-15, Interior(1) 32-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 8, 2019

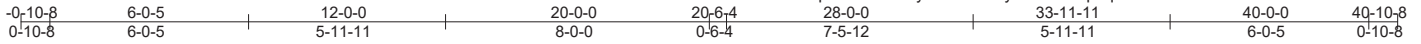
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	140.1445 B 10x10CP REV1	136342418
20040A	H4A	Hip	1	1		

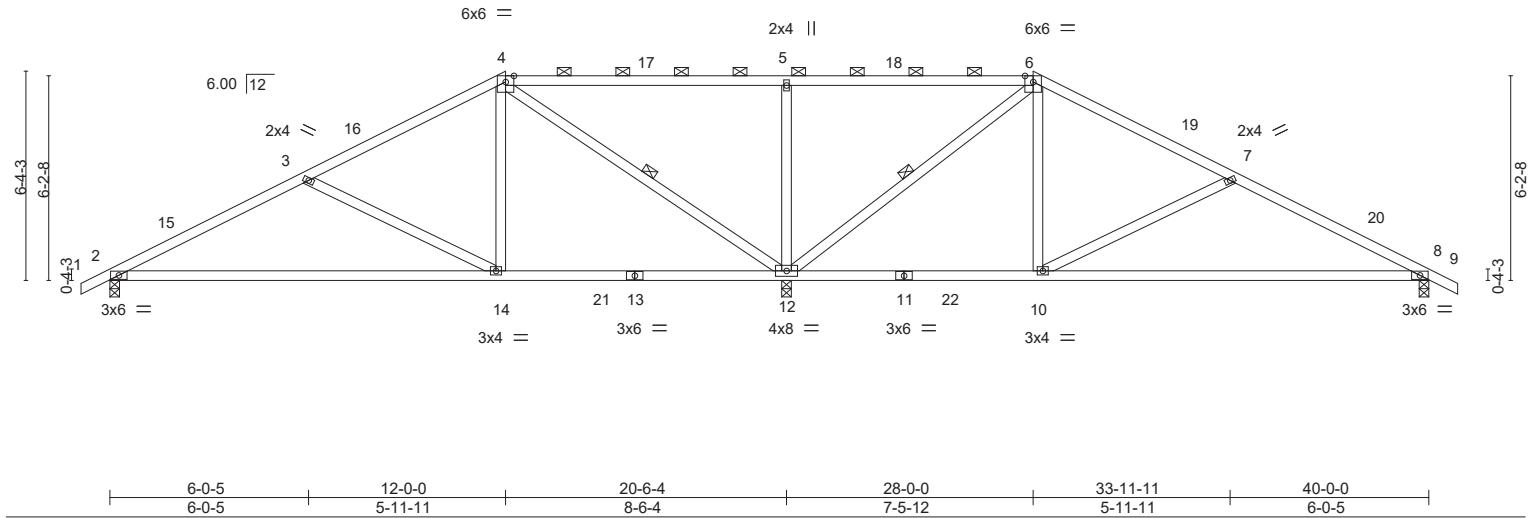
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:54:53 2019 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-ylrGLDK9bpeqSTM5RBUYT11trPCeb26CcHDWRzd1P0



Scale = 1:69.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.80	Vert(LL)	-0.44	8-10	>529	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.90	8-10	>259		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.03	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 200 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-6: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins, except
BOT CHORD 2x4 SP No.1 *Except* 11-13: 2x4 SP No.2	2-0-0 oc purlins (10-0-0 max.): 4-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
	WEBS 1 Row at midpt 4-12, 6-12

REACTIONS. (lb/size) 2=682/0-3-8, 12=1987/0-3-8, 8=630/0-3-8
 Max Horz 2=-106(LC 13)
 Max Uplift 2=-108(LC 12), 12=-165(LC 9), 8=-119(LC 13)
 Max Grav 2=719(LC 23), 12=1987(LC 1), 8=668(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-974/188, 3-4=-566/90, 4-5=0/591, 5-6=0/591, 6-7=-448/92, 7-8=-865/215
 BOT CHORD 2-14=-191/827, 12-14=0/435, 10-12=0/310, 8-10=-108/731
 WEBS 3-14=-445/258, 4-14=0/556, 4-12=-1144/148, 5-12=-557/251, 6-12=-1056/135, 6-10=0/538, 7-10=-461/258

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-0-0, Exterior(2) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 28-0-0, Exterior(2) 28-0-0 to 32-2-15, Interior(1) 32-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 12, and 8. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 8, 2019

Job 20040A	Truss H5	Truss Type Hip	Qty 1	Ply 1	140.1445 B 10x10CP REV1	136342419
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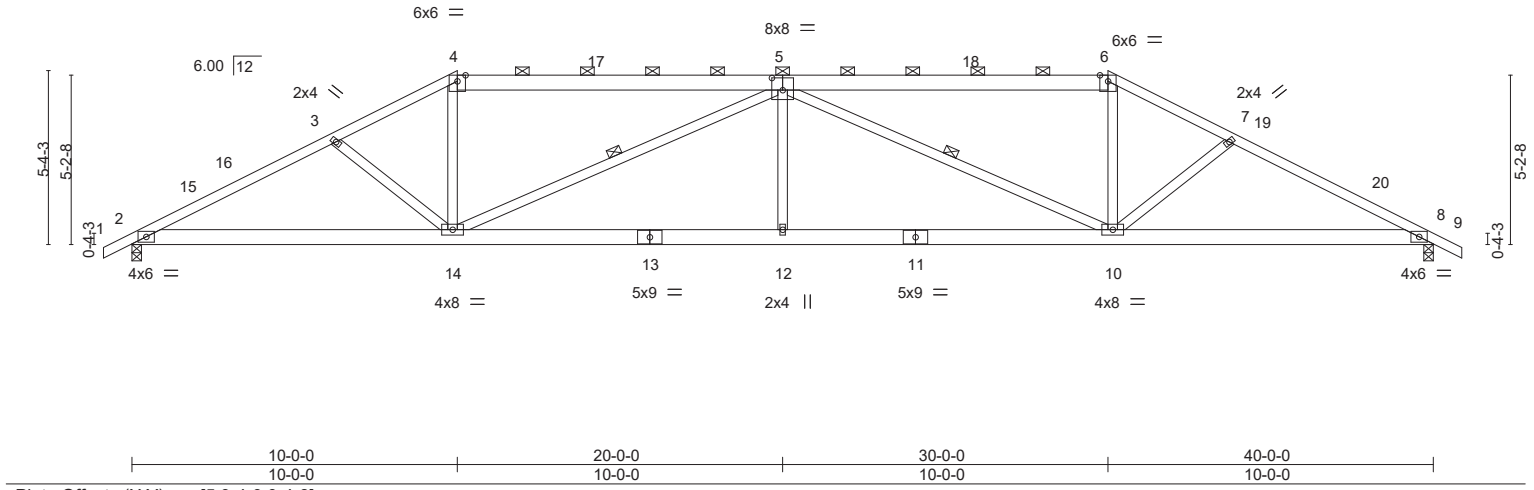
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:54:55 2019 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-u8z0mvMP7RvYhmWUYcW0Yj7Fif7u6TcPfwmKaJzd1P_

-0-10-8	6-3-4	10-0-0	16-8-0	20-0-0	23-4-0	30-0-0	33-8-12	40-0-0	40-10-8
0-10-8	6-3-4	3-8-12	6-8-0	3-4-0	3-4-0	6-8-0	3-8-12	6-3-4	0-10-8

Scale = 1:70.8



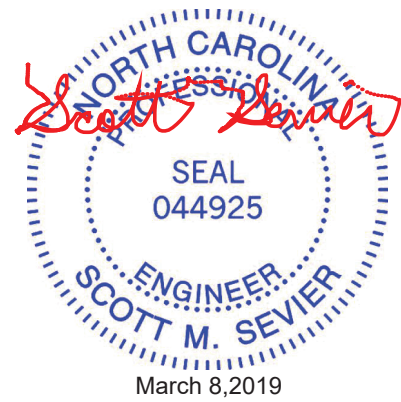
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.65	Vert(LL)	-0.22	12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.44	10-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.77	Horz(CT)	0.13	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 242 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-5,5-6: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-6-9 oc purlins, except 2-0-0 oc purlins (3-8-15 max.): 4-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-14, 5-10

REACTIONS. (lb/size) 2=1650/0-3-8, 8=1650/0-3-8
 Max Horz 2=89(LC 16)
 Max Uplift 2=-131(LC 9), 8=-131(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3059/462, 3-4=-2806/419, 4-5=-2469/405, 5-6=-2469/405, 6-7=-2806/419,
 7-8=-3059/462
 BOT CHORD 2-14=-332/2659, 12-14=-408/3466, 10-12=-408/3466, 8-10=-339/2659
 WEBS 4-14=-37/843, 5-14=-1217/283, 5-10=-1217/283, 6-10=-37/843, 5-12=0/385

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 30-0-0, Exterior(2) 30-0-0 to 34-2-15, Interior(1) 34-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	140.1445 B 10x10CP REV1	136342420
20040A	H5A	Hip	1	1		
84 Components (Dunn), Dunn, NC - 28334,						Job Reference (optional)

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:54:56 2019 Page 1

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-0-10-8	5-6-5	10-0-0	16-8-0	23-4-0	30-0-0	34-5-11	40-0-0	40-10-8
0-10-8	5-6-5	4-5-11	6-8-0	6-8-0	6-8-0	4-5-11	5-6-5	0-10-8

Scale = 1:70.8

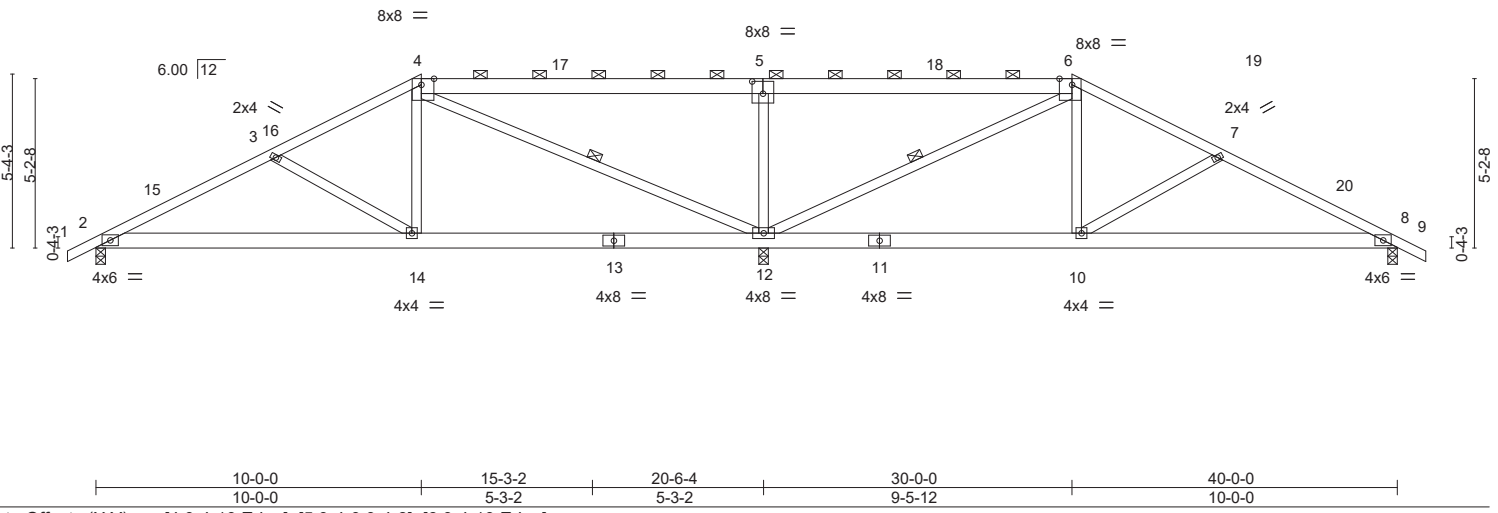


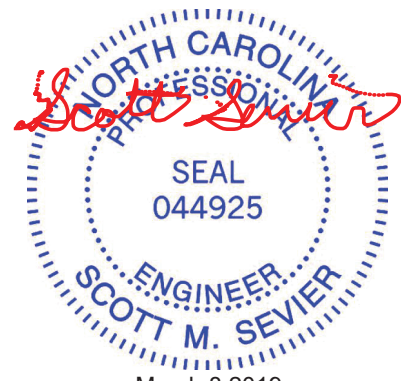
Plate Offsets (X,Y)--	[4:0-4-10,Edge], [5:0-4-0,0-4-8], [6:0-4-10,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.07 8-10 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.16 8-10 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.03 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 243 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-5,5-6: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 4-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-12, 6-12

REACTIONS. (lb/size) 2=752/0-3-8, 12=1844/0-3-8, 8=703/0-3-8
 Max Horz 2=-89(LC 13)
 Max Uplift 2=-107(LC 12), 12=-217(LC 9), 8=-112(LC 13)
 Max Grav 2=769(LC 23), 12=1844(LC 1), 8=720(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1149/199, 3-4=-839/131, 4-5=0/346, 5-6=0/348, 6-7=-719/116, 7-8=-1038/186
 BOT CHORD 2-14=-158/967, 12-14=-18/691, 10-12=0/580, 8-10=-102/870
 WEBS 3-14=-308/198, 4-14=0/503, 4-12=-1100/152, 6-12=-1003/143, 6-10=0/476,
 7-10=-325/199, 5-12=-722/321

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 30-0-0, Exterior(2) 30-0-0 to 34-2-15, Interior(1) 34-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 12, and 8. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

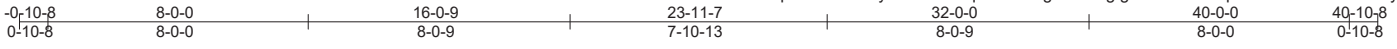


Job	Truss	Truss Type	Qty	Ply	140.1445 B 10x10CP REV1	136342421
20040A	H6	Hip	1	1		

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:54:57 2019 Page 1

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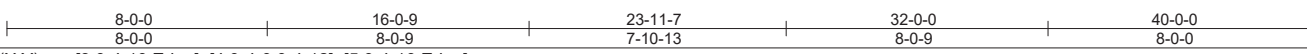
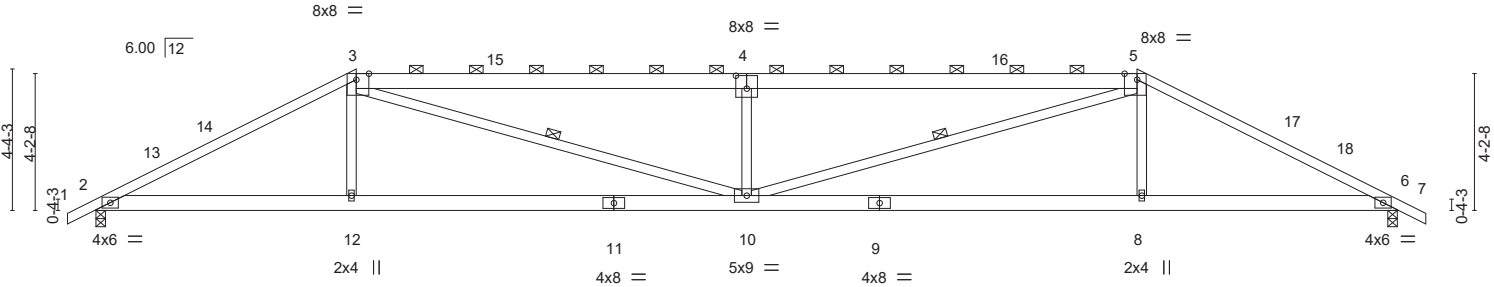


Plate Offsets (X,Y)-- [3:0-4-10,Edge], [4:0-4-0,0-4-12], [5:0-4-10,Edge]

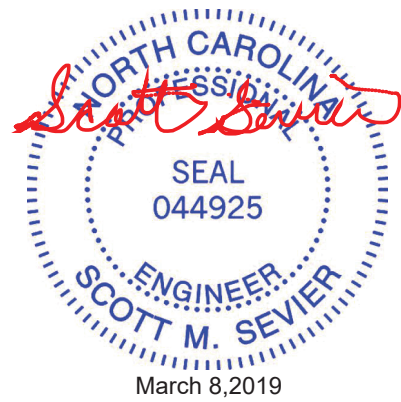
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	-0.27	10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.55	8-10	>865		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.11	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 232 lb	FT = 20%

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

REACTIONS. (lb/size) 2=1650/0-3-8, 6=1650/0-3-8
Max Horz 2=72(LC 16)
Max Uplift 2=-167(LC 9), 6=-167(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3130/418, 3-4=-4467/692, 4-5=-4467/692, 5-6=-3130/418
BOT CHORD 2-12=-312/2718, 10-12=-316/2708, 8-10=-282/2708, 6-8=-278/2718
WEBS 3-12=0/450, 3-10=-426/1980, 4-10=-906/392, 5-10=-427/1980, 5-8=0/450

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 32-0-0, Exterior(2) 32-0-0 to 36-2-15, Interior(1) 36-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

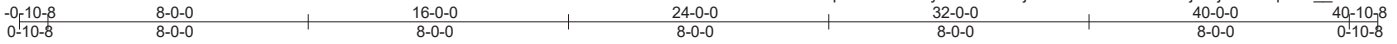


Job	Truss	Truss Type	Qty	Ply	140.1445 B 10x10CP REV1	136342422
20040A	H6A	Hip	1	1		

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:54:58 2019 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-ljf8OxOIQLH7YEF3EI3jALjesCEJq2rLu_Aezd1Ox



Scale = 1:70.8

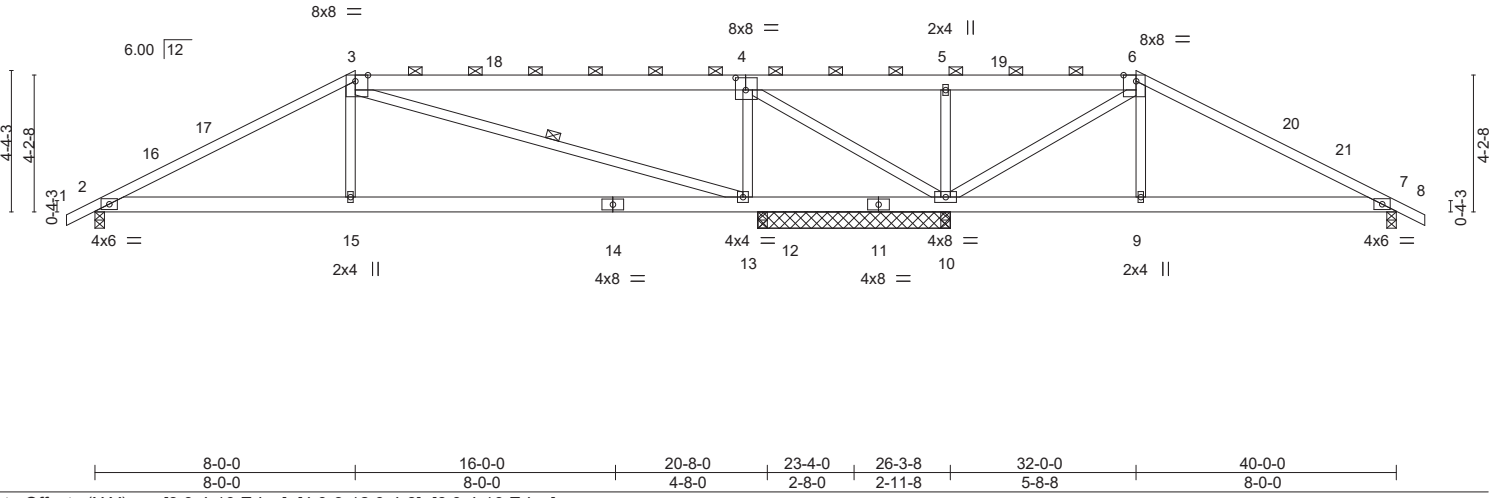


Plate Offsets (X,Y)--	[3:0-4-10,Edge], [4:0-3-12,0-4-8], [6:0-4-10,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.86	Vert(LL) -0.14 13-15 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.30 13-15 >809 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.79	Horz(CT) 0.03 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 238 lb	FT = 20%

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

REACTIONS. All bearings 0-3-8 except (jt=length) 10=5-11-0, 10=5-11-0.
 (lb) - Max Horz 2=72(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 7=-104(LC 13), 12=-207(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 2=857(LC 23), 10=1025(LC 1), 10=1025(LC 1), 7=514(LC 24), 12=916(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1340/170, 4-5=0/360, 5-6=0/363, 6-7=-520/109
 BOT CHORD 2-15=-66/1110, 13-15=-71/1099, 9-10=-1/361, 7-9=0/369
 WEBS 3-15=0/474, 3-13=-947/157, 4-13=-380/302, 4-10=-636/29, 6-10=-859/141, 6-9=0/353,
 5-10=-255/116

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 32-0-0, Exterior(2) 32-0-0 to 36-2-15, Interior(1) 36-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 7, and 12. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



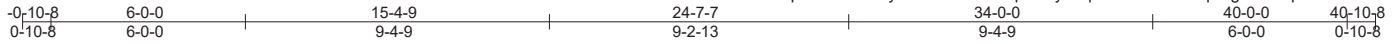
March 8, 2019

Job 20040A	Truss H7	Truss Type Hip	Qty 1	Ply 1	140.1445 B 10x10CP REV1	136342423
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:55:00 2019 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-E6nvpcPYyzXqoXPRLA6BFmq3Sgt1nho8pCT5FXzd1Ov



Scale = 1:71.1

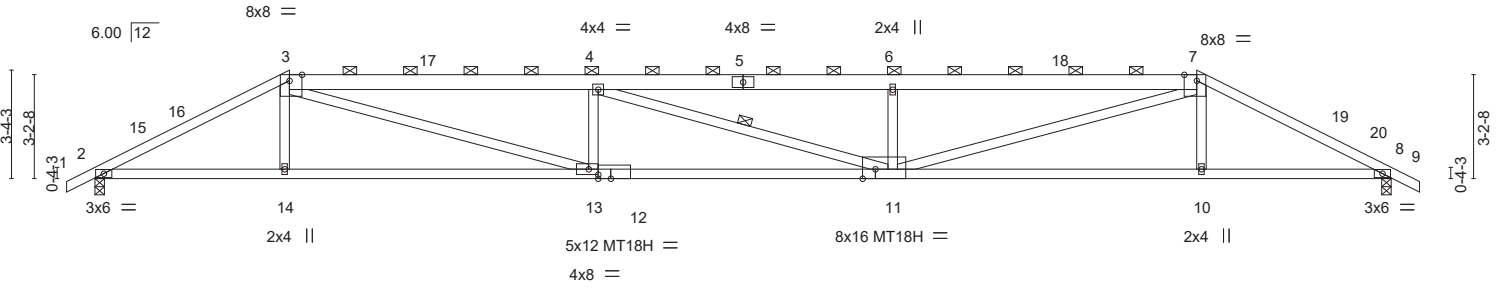


Plate Offsets (X,Y)--	[3:0-4-10,Edge], [7:0-4-10,Edge], [11:0-4-12,Edge], [12:0-4-11,0-0-0], [13:0-3-8,0-2-0]
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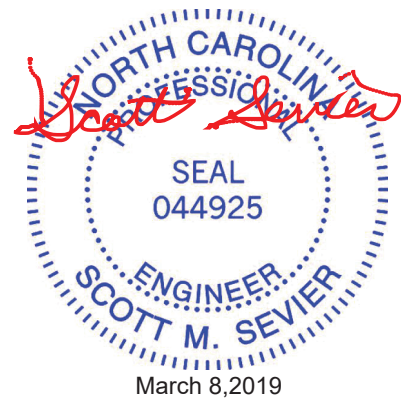
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	-0.44	11-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.92	11-13	>516	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.16	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 206 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-5,5-7: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-2-4 max.): 3-7.
BOT CHORD 2x4 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except* 3-13,7-11: 2x4 SP No.2	7-4-7 oc bracing: 11-13. 1 Row at midpt 4-11

REACTIONS. (lb/size) 2=1650/0-3-8, 8=1650/0-3-8
Max Horz 2=56(LC 16)
Max Uplift 2=-203(LC 9), 8=-203(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3195/443, 3-4=-5415/904, 4-6=-5427/903, 6-7=-5430/905, 7-8=-3194/443
BOT CHORD 2-14=-375/2789, 13-14=-380/2780, 11-13=-861/5412, 10-11=-346/2778, 8-10=-342/2788
WEBS 3-14=0/347, 3-13=-562/2840, 4-13=-662/283, 6-11=-654/278, 7-11=-564/2856,
7-10=0/346

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0, Exterior(2) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 34-0-0, Exterior(2) 34-0-0 to 38-2-15, Interior(1) 38-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

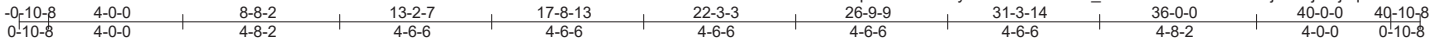


Job	Truss	Truss Type	Qty	Ply	140.1445 B 10x10CP REV1	136342425
20040A	HG	Hip Girder	1	1		

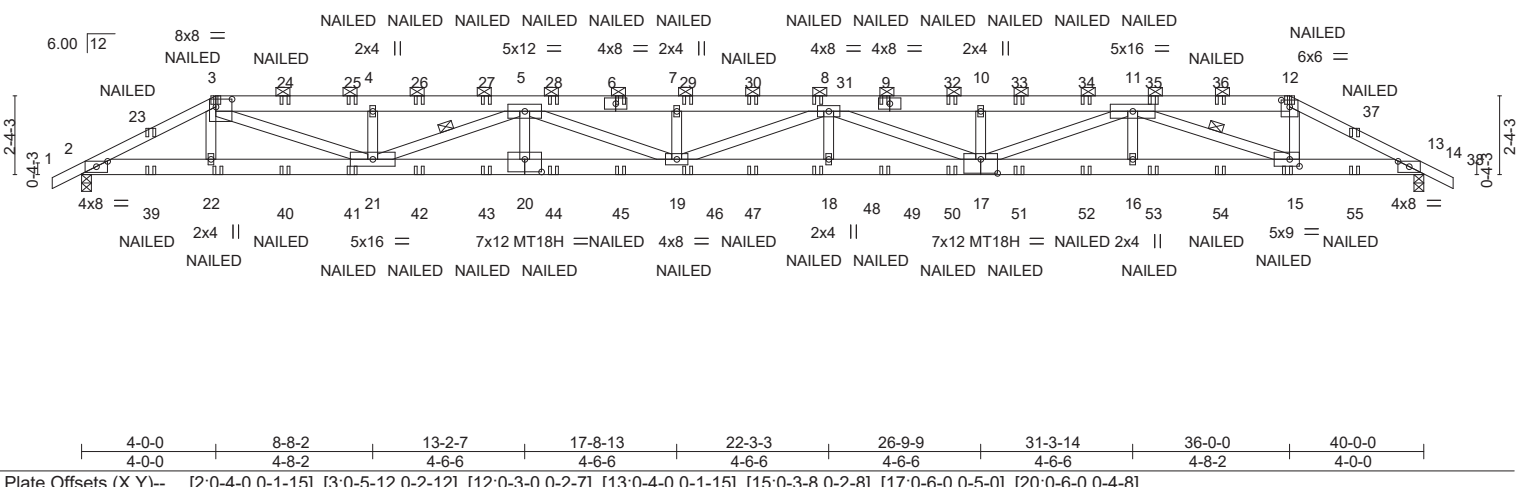
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:55:04 2019 Page 1

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Scale = 1:68.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	1.02	18-19	>467	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.89	Vert(CT)	-1.81	18-19	>263	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.99	Horz(CT)	0.24	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 250 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 1-3,12-14: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-3-5 oc purlins, except 2-0-0 oc purlins (2-1-12 max.): 3-12.
BOT CHORD 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 5-0-2 oc bracing.
WEBS 2x4 SP No.3 *Except* 3-21,5-21,5-19,8-19,8-17,11-17,11-15: 2x4 SP No.2	WEBS 1 Row at midpt 5-21, 11-15

REACTIONS. (lb/size) 2=2281/0-3-8, 13=2310/0-3-8
 Max Horz 2=40(LC 12)
 Max Uplift 2=-522(LC 9), 13=-557(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4617/1134, 3-4=-7798/2037, 4-5=-7797/2036, 5-7=-11417/2997, 7-8=-11417/2997,
 8-10=-10260/2706, 10-11=-10260/2706, 11-12=-4004/1049, 12-13=-4679/1185
 BOT CHORD 2-22=-996/4075, 21-22=-1002/4062, 20-21=-2651/10217, 19-20=-2651/10217,
 18-19=-2976/11434, 17-18=-2976/11434, 16-17=-2027/7851, 15-16=-2027/7851,
 13-15=-1022/4131
 WEBS 3-22=0/281, 3-21=-1098/4054, 4-21=-417/236, 5-21=-2628/710, 5-20=0/254,
 5-19=-348/1308, 7-19=-364/209, 8-18=0/255, 8-17=-1280/341, 10-17=-378/210,
 11-17=-687/2617, 11-15=-4149/1123, 12-15=-354/1700

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2) 4-0-0 to 8-2-15, Interior(1) 8-2-15 to 36-0-0, Exterior(2) 36-0-0 to 40-2-15, Interior(1) 40-2-15 to 40-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



March 8, 2019

Continued on page 2

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

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

TRENCO ENGINEERING BY
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 20040A	Truss HG	Truss Type Hip Girder	Qty 1	Ply 1	140.1445 B 10x10CP REV1 Job Reference (optional)	I36342425
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:55:04 2019 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-12=-60, 12-14=-60, 2-13=-20

Concentrated Loads (lb)

Vert: 3=-46(B) 6=-46(B) 12=-54(B) 22=-18(B) 15=-18(B) 9=-46(B) 23=-44(B) 24=-46(B) 25=-46(B) 26=-46(B) 27=-46(B) 28=-46(B) 29=-46(B) 30=-46(B) 31=-46(B) 32=-46(B) 33=-46(B) 34=-54(B) 35=-54(B) 36=-54(B) 37=-48(B) 39=-42(B) 40=-18(B) 41=-18(B) 42=-18(B) 43=-18(B) 44=-18(B) 45=-18(B) 46=-18(B) 47=-18(B) 48=-18(B) 49=-18(B) 50=-18(B) 51=-18(B) 52=-18(B) 53=-18(B) 54=-18(B) 55=-46(B)

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

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Edenton, NC 27932

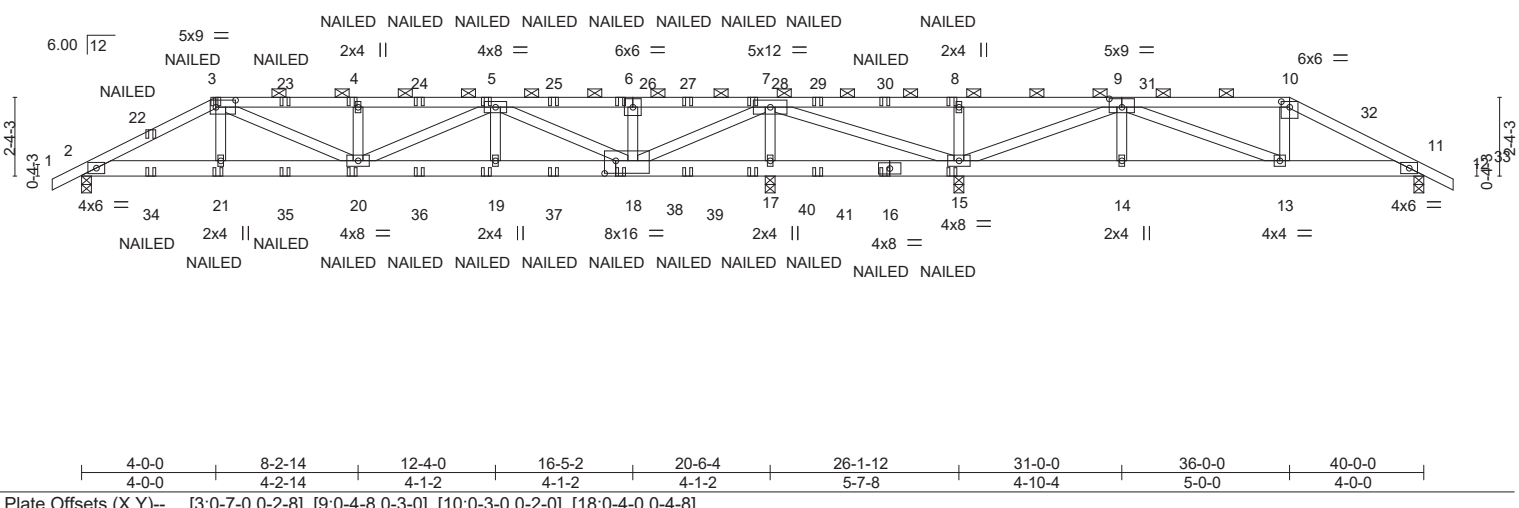
Job	Truss	Truss Type	Qty	Ply	140.1445 B 10x10CP REV1	136342426
20040A	HGS	Hip Girder	1	1		
84 Components (Dunn), Dunn, NC - 28334,						Job Reference (optional)

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:55:07 2019 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-XSiYH0VxI6Pr7cRoF8kq2FdHjVIKws5AQogz_dzd1Oo



Scale = 1:68.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.71	Vert(LL)	0.10	19-20	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.18	19-20	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.93	Horz(CT)	0.02	17	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 224 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-3 oc purlins, except 2-0-0 oc purlins (3-6-13 max.): 3-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-10-5 oc bracing: 17-18, 5-10-6 oc bracing: 15-17.

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=41(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 11 except 2=-199(LC 12), 17=-507(LC 9), 15=-140(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 2=1028(LC 23), 17=1923(LC 23), 15=718(LC 24), 11=493(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1785/415, 3-4=-2164/569, 4-5=-2164/569, 5-6=-564/189, 6-7=-564/189, 7-8=-144/709, 8-9=-144/709, 9-10=-566/174, 10-11=-686/164
BOT CHORD 2-21=-345/1533, 20-21=-340/1546, 19-20=-476/1881, 18-19=-476/1881, 17-18=-1468/393, 15-17=-1468/393, 14-15=-152/482, 13-14=-152/482, 11-13=-81/563
WEBS 3-21=0/269, 3-20=-231/705, 4-20=-349/203, 5-20=-66/315, 5-19=0/262, 5-18=-1462/374, 6-18=-299/174, 7-18=-576/2252, 7-17=-1692/571, 7-15=-213/815, 8-15=-410/221, 9-15=-1188/212

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2) 4-0-0 to 8-2-14, Interior(1) 8-2-14 to 36-0-0, Exterior(2) 36-0-0 to 40-2-15, Interior(1) 40-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 17, 15, and 11. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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



Continued on page 2

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

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

TRENCO
ENGINEERING BY
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 20040A	Truss HGS	Truss Type Hip Girder	Qty 1	Ply 1	140.1445 B 10x10CP REV1 Job Reference (optional)	I36342426
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:55:07 2019 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-10=-60, 10-12=-60, 2-11=-20

Concentrated Loads (lb)

Vert: 3=-46(F) 21=-18(F) 20=-18(F) 4=-46(F) 5=-46(F) 19=-18(F) 8=-54(F) 15=-18(F) 16=-18(F) 22=-44(F) 23=-46(F) 24=-46(F) 25=-46(F) 26=-46(F) 27=-46(F) 28=-46(F) 29=-46(F) 30=-46(F) 34=-42(F) 35=-18(F) 36=-18(F) 37=-18(F) 38=-18(F) 39=-18(F) 40=-18(F) 41=-18(F)

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

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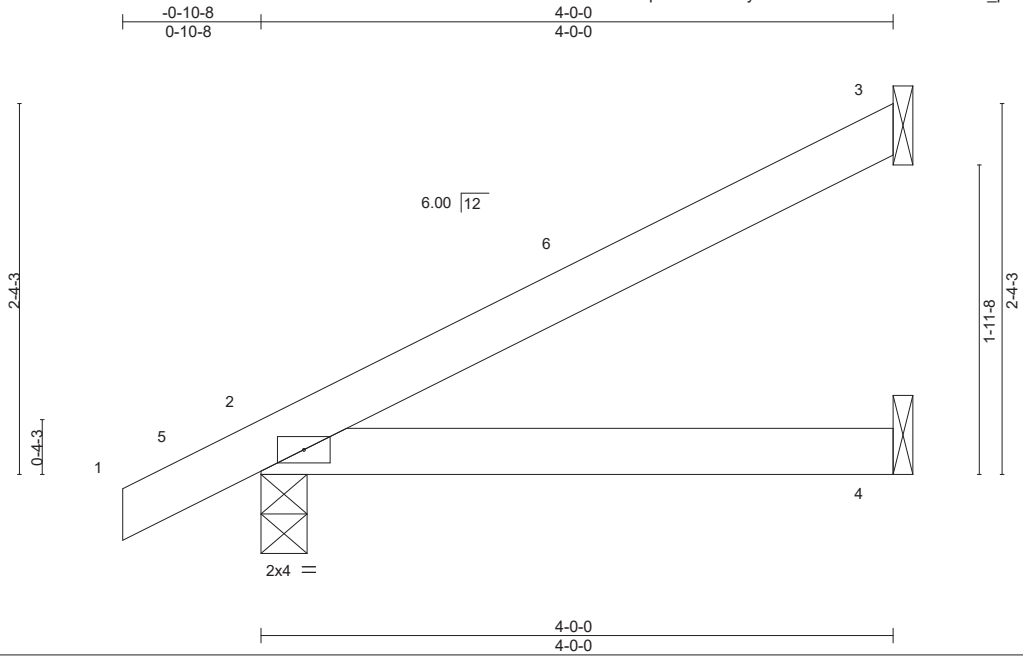


818 Soundside Road
Edenton, NC 27932

Job 20040A	Truss J1	Truss Type Jack-Open	Qty 22	Ply 1	140.1445 B 10x10CP REV1	136342427
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:55:08 2019 Page 1
 ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-?eFwULWZ3QXilm0_prF3aS9atuitfXujfSPWX3zd1On



Scale = 1:14.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) -0.01 2-4 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.02 2-4 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 14 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=106/Mechanical, 2=221/0-3-8, 4=38/Mechanical
 Max Horz 2=91(LC 12)
 Max Uplift 3=-67(LC 12), 2=-32(LC 12)
 Max Grav 3=106(LC 1), 2=221(LC 1), 4=76(LC 3)

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

NOTES-

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



March 8, 2019

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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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

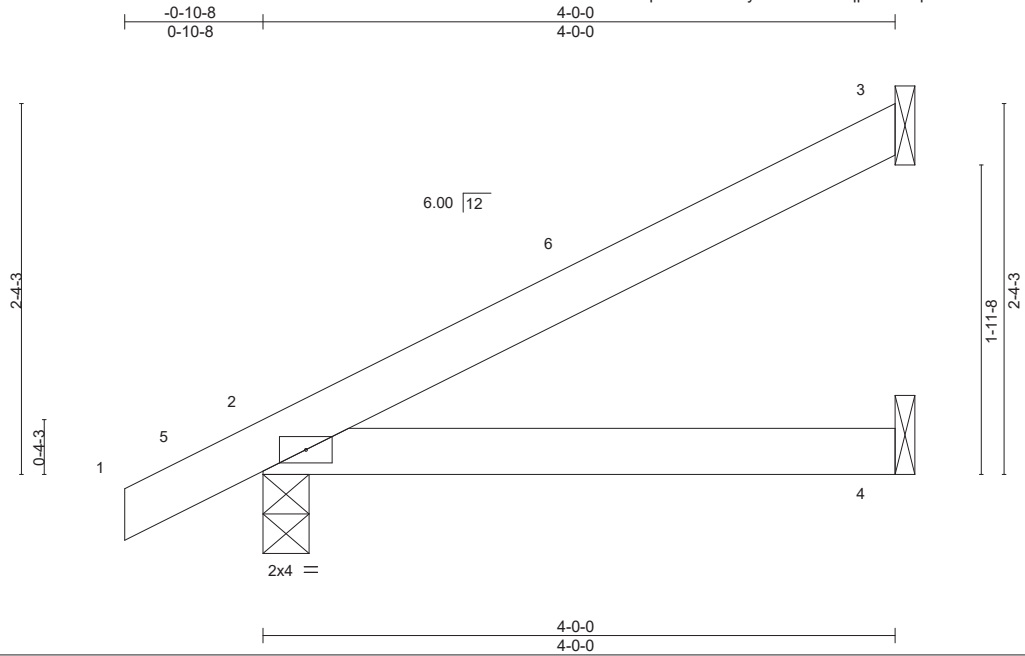
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 20040A	Truss J2	Truss Type Jack-Open	Qty 2	Ply 1	140.1445 B 10x10CP REV1	136342428
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:55:09 2019 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-UqpJihWBqkfZNwbANZml7giicl26O_8Tt5933Vzd1Om



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	-0.01 2-4	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.02 2-4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 14 lb	FT = 20%

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

REACTIONS. (lb/size) 3=106/Mechanical, 2=221/0-3-8, 4=38/Mechanical
 Max Horz 2=91(LC 12)
 Max Uplift 3=-67(LC 12), 2=-32(LC 12)
 Max Grav 3=106(LC 1), 2=221(LC 1), 4=76(LC 3)

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

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

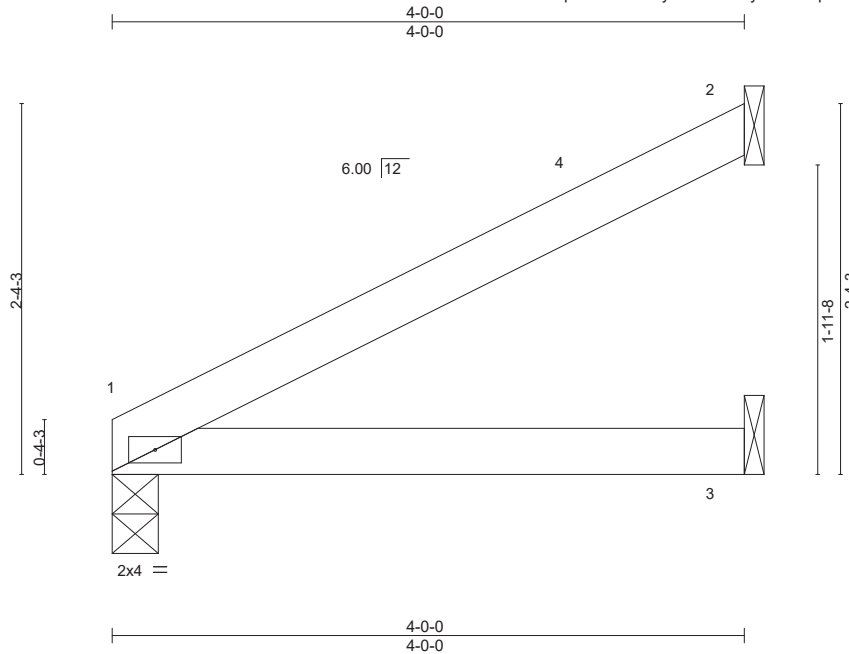


March 8, 2019

Job 20040A	Truss J3	Truss Type Jack-Open	Qty 1	Ply 1	140.1445 B 10x10CP REV1	136342429
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:55:10 2019 Page 1
ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-y1Nhv1Xpb1oQ_49MxGHXftFvmiOL7ROc6ludbyzd10I



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	-0.01	1-3	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.02	1-3	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 1=152/0-3-8, 2=114/Mechanical, 3=38/Mechanical
Max Horz 1=78(LC 12)
Max Uplift 1=-7(LC 12), 2=-71(LC 12)
Max Grav 1=152(LC 1), 2=114(LC 1), 3=76(LC 3)

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

NOTES-

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



March 8, 2019

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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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



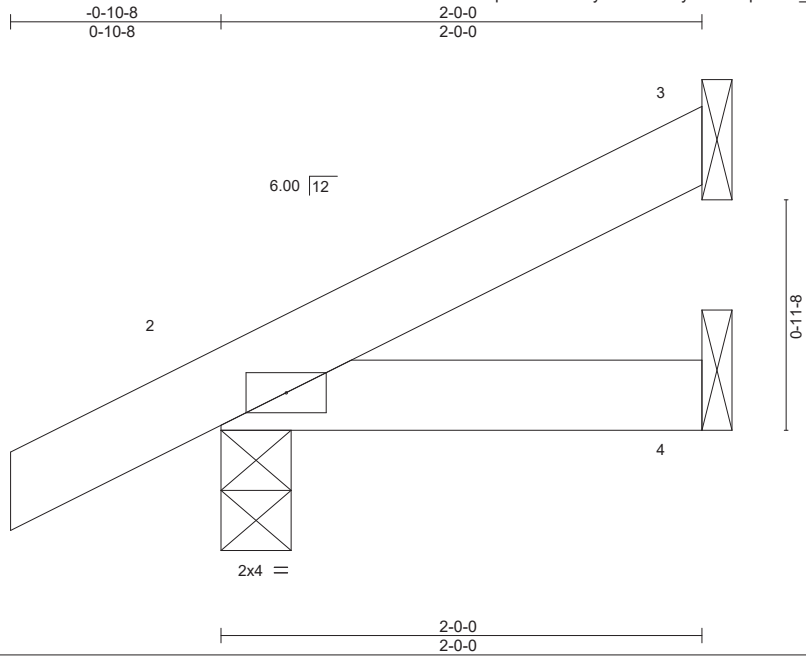
818 Soundside Road
Edenton, NC 27932

Job 20040A	Truss J4	Truss Type Jack-Open	Qty 3	Ply 1	140.1445 B 10x10CP REV1	136342430
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:55:10 2019 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-y1Nhv1Xpb1oQ_49MxGHXfFz9iQN7ROc6ludbyzd1OI



Scale = 1:9.6

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 0.06	Vert(LL)	-0.00	2	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	2-4	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 8 lb	FT = 20%

LUMBER-

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

BRACING-

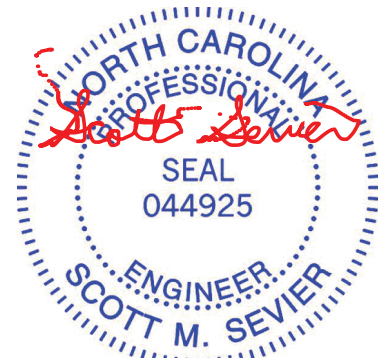
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=46/Mechanical, 2=145/0-3-8, 4=20/Mechanical
Max Horz 2=53(LC 12)
Max Uplift 3=-31(LC 12), 2=-29(LC 12)
Max Grav 3=46(LC 1), 2=145(LC 1), 4=39(LC 3)

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

NOTES-

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



March 8, 2019

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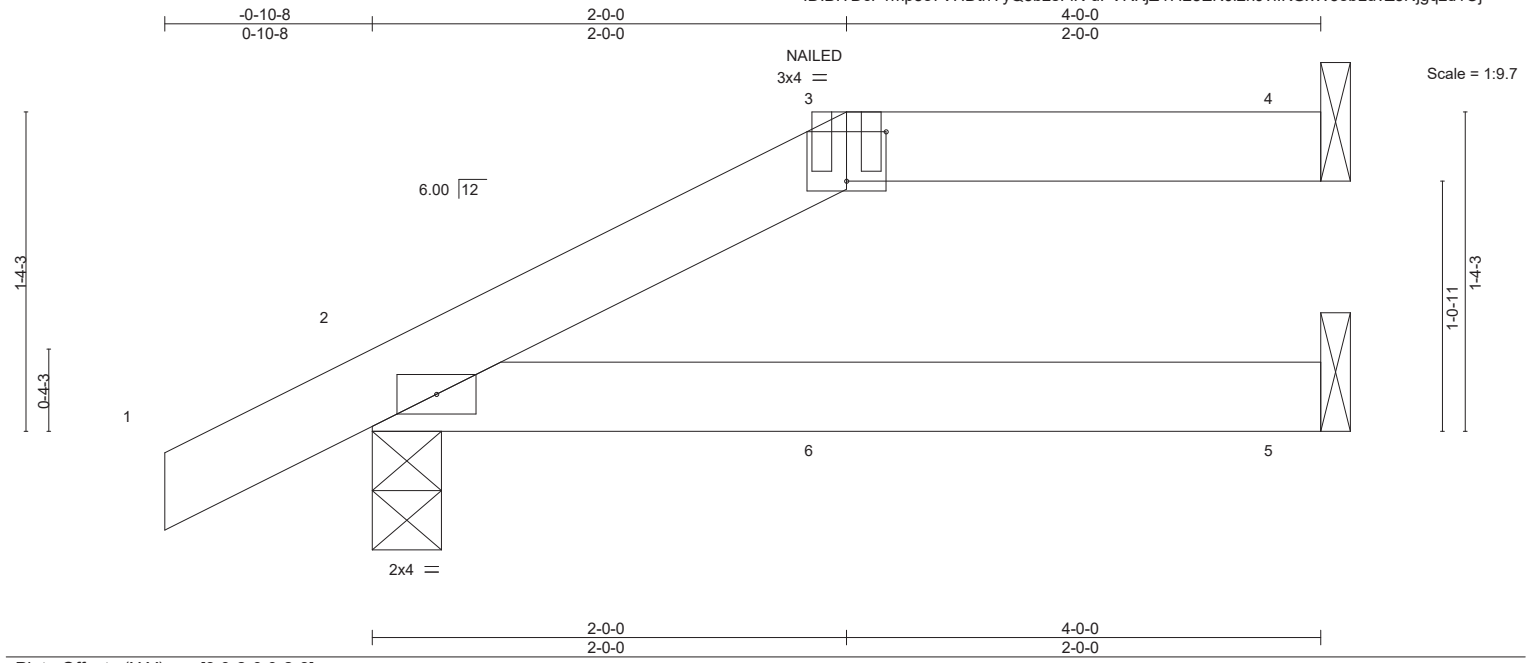


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1445 B 10x10CP REV1	136342432
20040A	JG1	Jack-Open Girder	2	1		
84 Components (Dunn), Dunn, NC - 28334,						Job Reference (optional)

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:55:12 2019 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-uPVRKjZ47f28ENJl2hJ?IIKGxW3obLuvZ3Njgqzd1Oj



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(LL) 0.02 2-5 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Vert(CT) -0.03 2-5 >999 180		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Horz(CT) 0.02 4 n/a n/a	Weight: 14 lb	FT = 20%

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

REACTIONS. (lb/size) 4=104/Mechanical, 2=244/0-3-8, 5=62/Mechanical
 Max Horz 2=54(LC 12)
 Max Uplift 4=-45(LC 9), 2=-61(LC 12)
 Max Grav 4=104(LC 1), 2=244(LC 1), 5=78(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 46 lb down and 45 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)	Standard
1) Dead + Roof Live (balanced):	Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)	
	Vert: 1-3=-60, 3-4=-60, 2-5=-20
Concentrated Loads (lb)	
	Vert: 6=-46(B)

