

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 19831-19831A Aberdeen Vault Master

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: I466666497 thru I46666507

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

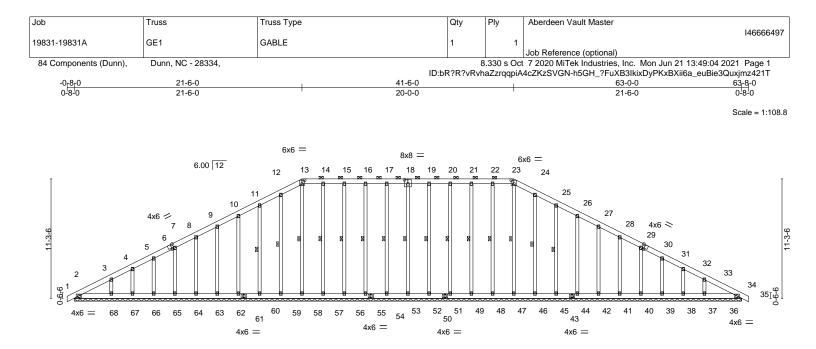
North Carolina COA: C-0844



June 22,2021

Sevier, Scott

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



			63-0-0 63-0-0					
Plate Offsets (X,Y)	[6:0-2-5,Edge], [13:0-3-0,0-4-0], [18:0-4	-0,0-4-8], [23:0-3-0,0-4-0]	, [30:0-2-5,Edge]				1	
LOADING(psf)TCLL20.0TCDL10.0BCLL0.0BCDL10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.05 BC 0.04 WB 0.13 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	0.00	nc) I/defl 34 n/r 35 n/r 34 n/a	L/d 120 90 n/a	PLATES MT20 Weight: 624 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x6 SP OTHERS 2x4 SP REACTIONS. All be	P No.2		BRACING- TOP CHOR BOT CHOR WEBS	2-0- D Rig	-0 oc purlins	(6-0-0 max.): ectly applied of 1 1	rectly applied or 6-0-0 c : 13-23. or 10-0-0 oc bracing. 18-52, 17-53, 16-55, 15- 12-59, 11-60, 19-51, 20- 23-46, 24-45, 25-44	-56, 14-57, 13-58,
(lb) - Max H Max U Max G FORCES. (lb) - Max. TOP CHORD 12-13 17-18	 Parings 63-0-0. forz 2=-188(LC 10) plift All uplift 100 lb or less at joint(s) 5 65, 66, 67, 68, 51, 49, 48, 45, 44, 4 frav All reactions 250 lb or less at joint 60, 62, 63, 64, 65, 66, 67, 51, 49, 37 except 68=274(LC 21), 36=274(Comp./Max. Ten All forces 250 (lb) or 3=-105/267, 13-14=-93/257, 14-15=-93/25 3=-93/257, 18-19=-93/257, 19-20=-93/25 3=-93/257, 23-24=-105/267 	2, 41, 40, 39, 38, 37, 36 (s) 2, 34, 52, 53, 55, 56, 5 18, 47, 46, 45, 44, 42, 41, LC 22) less except when shown 257, 15-16=-93/257, 16-1	.7, 58, 59, 40, 39, 38, 7=-93/257,					
 2) Wind: ASCE 7-10; V II; Exp B; Enclosed; exposed;C-C for me 3) Truss designed for v Gable End Details a 4) WARNING: This lor handling and erectio Trusses ("BCSI"), jo qualified registered of permanent individua bracing. 5) Provide adequate dr 6) All plates are 3x4 Mi 7) Gable requires conti 8) Gable studs spaced 9) This truss has be will fit between the 11) Provide mechanica 	e loads have been considered for this de /ult=120mph (3-second gust) Vasd=95m MWFRS (directional) and C-C Exterior(mbers and forces & MWFRS for reactio vind loads in the plane of the truss only. s applicable, or consult qualified building ag span truss requires extreme care and in guidance, see Guide to Good Practice intly produced by SBCA and TPI. The b design professional for the design and ir al truss member restraint/bracing. MiTek rainage to prevent water ponding. T20 unless otherwise indicated. inuous bottom chord bearing. at 2-0-0 oc. designed for a 10.0 psf bottom chord liv en designed for a live load of 20.0psf or bottom chord and any other members. al connection (by others) of truss to bear 65, 66, 67, 68, 51, 49, 48, 45, 44, 42, 4*	ph; TCDL=6.0psf; BCDL= 2) zone; cantilever left ann ns shown; Lumber DOL= For studs exposed to win g designer as per ANSI/TI experience for proper an for Handling, Installing & uilding owner or the owne ispection of the temporan assumes no responsibili	d right exposed ; er 1.60 plate grip DOL nd (normal to the fa Pl 1. d safe handling an Bracing of Metal F r's authorized ager y installation restrai ty for truss manufa n any other live loar reas where a recta	nd vertical I =1.60 ace), see S d erection. Plate Conno t shall con int/bracing cture, hance ds. ngle 3-6-0	left and right tandard Indu For general ected Wood tract with a and the dling, erection tall by 2-0-0	stry n, or wide	SEA 04492	ER RAIN

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

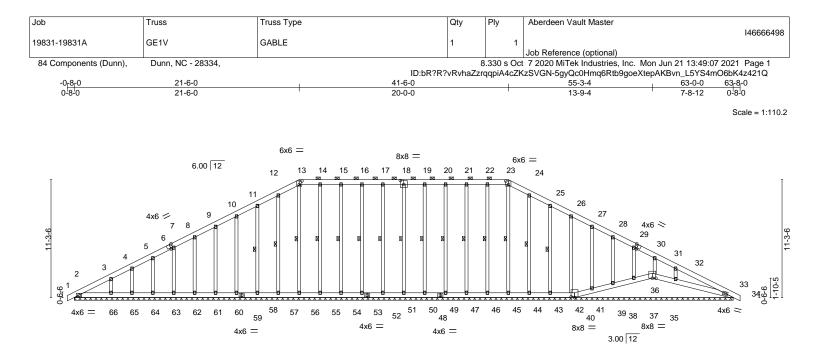
A MiTek A 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Aberdeen Vault Master		
19831-19831A	GE1	GABLE	1	1	146666497		
					Job Reference (optional)		
84 Components (Dunn),	Dunn, NC - 28334,		8	.330 s Oct	7 2020 MiTek Industries, Inc. Mon Jun 21 13:49:04 2021 Page 2		
		ID:bR?R?vRvhaZzrqqpiA4cZKzSVGN-h5GH_?FuXB3lkixDyPKxBXli6a_euBie3Quxjmz421T					

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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		47-10-0 47-10-0				-0-0 3-12
Plate Offsets (X,Y)	[6:0-2-5,Edge], [13:0-3-0,0-4-0], [18:0-4		[30:0-2-5,Edge], [36:0	-4-0,0-0-0], [40:0-0-0,0-2-12		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.14 BC 0.10 WB 0.13 Matrix-S	DEFL. i Vert(LL) 0.0 Vert(CT) 0.0 Horz(CT) 0.0	1 34 n/r 90	PLATES MT20 Weight: 615 lb	GRIP 244/190 FT = 20%
BOT CHORD 2x6 S	P No.2 P No.2 P No.3		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing 2-0-0 oc purlins (6-0-0 ma Rigid ceiling directly appli 6-0-0 oc bracing: 35-36. 1 Row at midpt	ax.): 13-23.	Except: 5-54, 14-55, 13-56,
(lb) - Max H	earings 63-0-0. Horz 2=188(LC 11) Jplift All uplift 100 lb or less at joint(s) 4 60, 61, 62, 63, 64, 65, 66, 49, 47, 4				23-44, 24-43, 25-42	- , -, -,

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 12-13=-106/268, 13-14=-94/257, 14-15=-94/257, 15-16=-94/257, 16-17=-94/257, 17-18=-94/257, 18-19=-94/257, 19-20=-94/257, 20-21=-94/257, 21-22=-94/25, 21-22=-94/2

37 except 66=274(LC 21), 35=455(LC 1)

Max Grav All reactions 250 lb or less at joint(s) 2, 40, 36, 33, 50, 51, 53, 54, 55,

56, 57, 58, 60, 61, 62, 63, 64, 65, 49, 47, 46, 45, 44, 43, 42, 41, 39, 38,

- 22-23=-94/257, 23-24=-106/268
- WEBS 32-35=-322/172

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 3x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide Continuited between the bottom chord and any other members.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling 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 sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



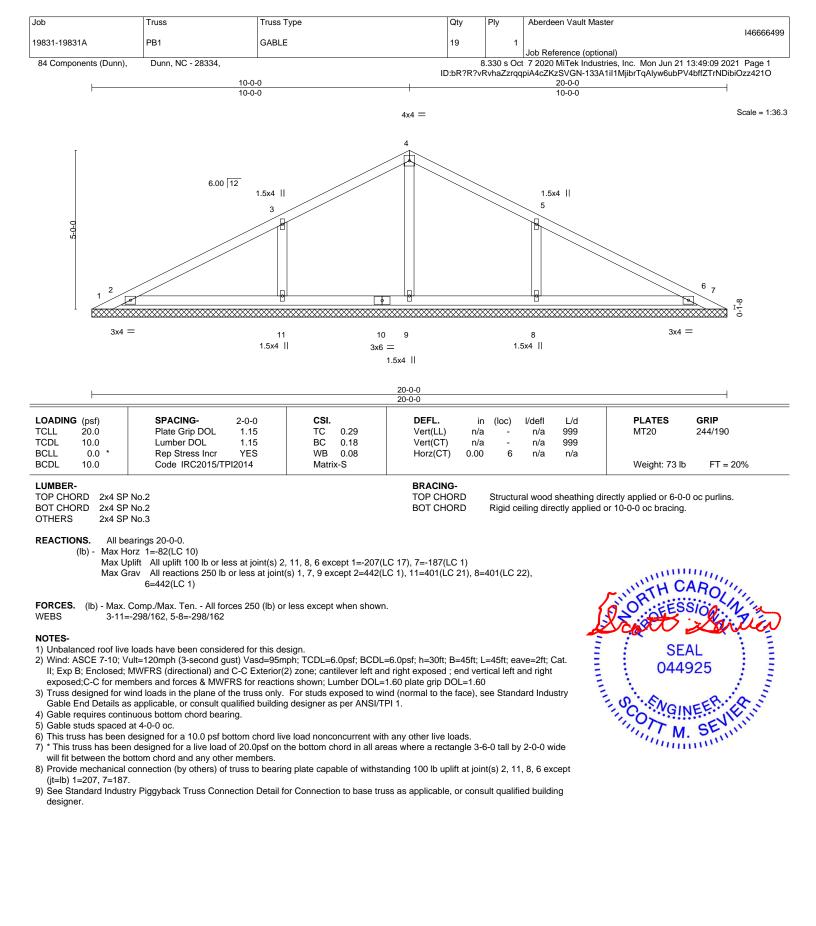


Job	Truss	Truss Type	Qty	Ply	Aberdeen Vault Master
19831-19831A	GE1V	GABLE	1	1	146666498
19631-19631A	GEIV	GABLE	'		Job Reference (optional)
84 Components (Dunn),	Dunn, NC - 28334,	1	8		7 2020 MiTek Industries, Inc. Mon Jun 21 13:49:07 2021 Page 2
		ID:bR?R?	vRvhaZzr	qqpiA4cZK	zSVGN-5gyQc0Hmq6Rtb9goeXtepAKBvn_L5YS4mO6bK4z421Q

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40, 36, 33, 50, 51, 53, 54, 57, 58, 60, 61, 62, 63, 64, 65, 66, 49, 47, 46, 43, 42, 41, 39, 38, 37, 35.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 36, 39, 38, 37, 35.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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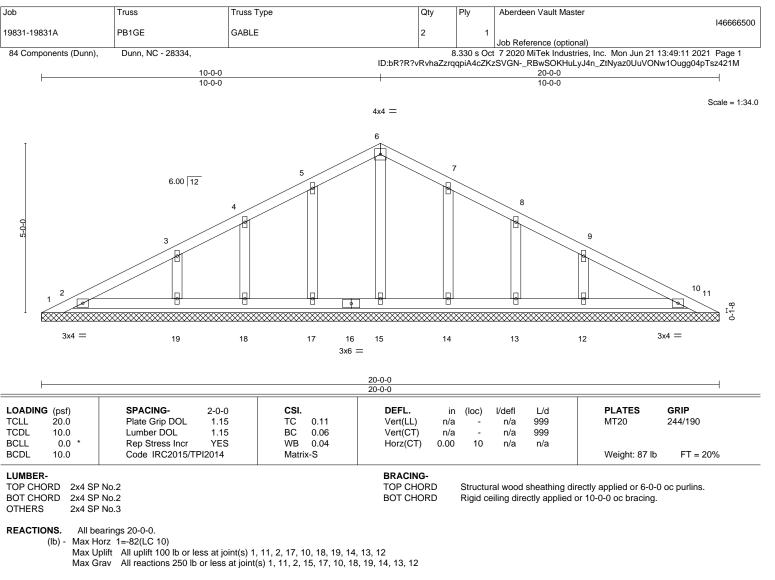




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FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

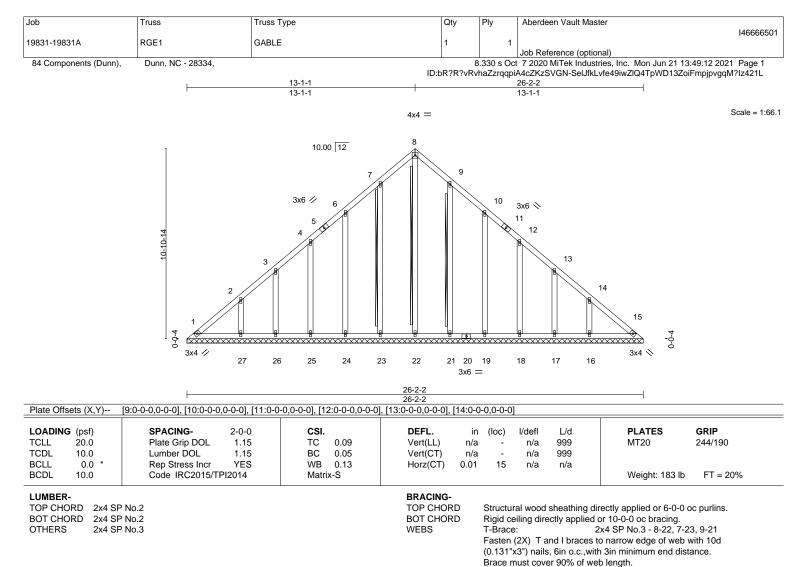
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 2, 17, 10, 18, 19, 14, 13, 12.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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REACTIONS. All bearings 26-2-2.

(lb) - Max Horz 1=-217(LC 10)

- Max Uplift All uplift 100 lb or less at joint(s) 1, 23, 24, 25, 26, 27, 21, 19, 18, 17, 16, 15
- Max Grav All reactions 250 lb or less at joint(s) 1, 22, 23, 24, 25, 26, 27, 21, 19, 18, 17, 16, 15

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

NOTES-

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 1.5x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 23, 24, 25, 26, 27, 21, 19, 18, 17, 16, 15.

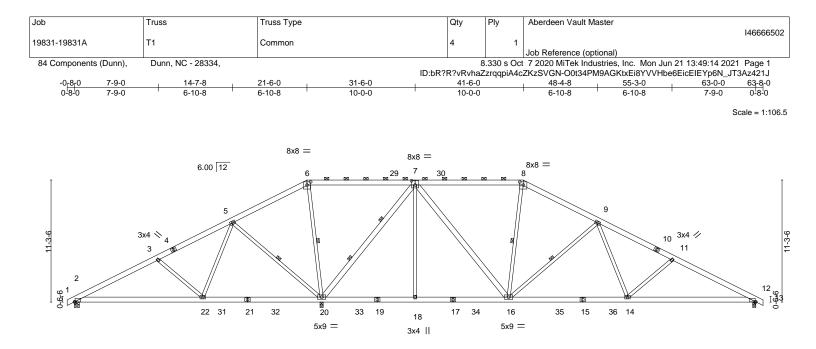
8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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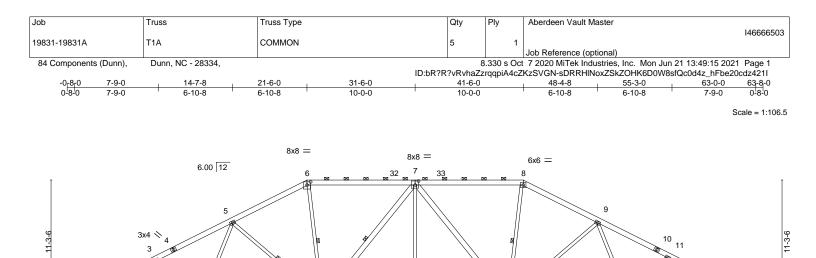
¹⁾ Unbalanced roof live loads have been considered for this design.



		1-10-6	22-10-4	31-6-0		-1-12			51-1-10	63-0	
Plate Offs		1-10-6 [2:0-0-12,0-0-0], [6:0-4-0	10-11-14 ,0-3-8], [7:0-4-0,	<u>8-7-12</u> 0-4-12], [8:0-4-0,0-3-8],	-	7-12		1	10-11-14	11-1	0-6
LOADING TCLL TCDL BCLL BCDL		SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TI	2-0-0 1.15 1.15 YES	CSI. TC 0.81 BC 0.66 WB 0.86 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.16	(loc) 14-16 14-16 12	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 489 lb	GRIP 244/190 FT = 20%
	DRD 2x6 SP DRD 2x6 SP 2x4 SP				BRACING- TOP CHOF BOT CHOF WEBS	RD	except 2-0-0 o Rigid c 1 Row	c purlins	(6-0-0 max. ectly applied	directly applied or 4-3-12): 6-8. I or 6-0-0 oc bracing. 5-20, 6-20, 8-16, 9-16 7-20	2 oc purlins,
REACTIC	Max H Max U	e) 2=0-5-8, 20=0-3-8 (orz 2=-188(LC 10) plift 2=-37(LC 12), 20=-1 irav 2=520(LC 21), 20=3	64(LC 12), 12=-8	32(LC 12)				·			
FORCES TOP CHO BOT CHO WEBS	ORD 2-3=- 9-11= ORD 2-22= 12-14 3-22=	Comp./Max. Ten All fo 483/368, 3-5=-144/503, 4 2106/346, 11-12=-2401 283/396, 20-22=-569/19 4=-247/2099 482/226, 5-22=-17/705, =0/440, 7-16=-124/1074,	5-6=-49/1287, 6- /390 90, 18-20=0/338, 5-20=-896/248,	7=0/1193, 7-8=-944/287 , 16-18=0/338, 14-16=-7 6-20=-986/185, 7-20=-2	7, 8-9=-1122/282, 75/1538, 2286/320,						
 Wind: A II; Exp expose WARN handlir Trusse qualifie perman bracing Provid All plat This tr will fit k WARN Provid (jt=lb) 2 	ASCE 7-10; V B; Enclosed; ed;C-C for me IING: This lor og and erectio s ("BCSI"), jo ad registered of nent individua g. e adequate dr tes are 4x6 M uss has been truss has been truss has been truss has been truss has been truss compared to the petween the b IING: Require e mechanical 20=164.	a loads have been consid fult=120mph (3-second g MWFRS (directional) and mbers and forces & MWI ng span truss requires ex an guidance, see Guide to intly produced by SBCA a design professional for th al truss member restraint/ rainage to prevent water p T20 unless otherwise ind designed for a 10.0 psf b n designed for a live load bottom chord and any oth d bearing size at joint(s) i connection (by others) of presentation does not dep	ust) Vasd=95mp d C-C Exterior(2) FRS for reactions treme care and e o Good Practice I and TPI. The bui e design and ins pracing. MiTek a ponding. icated. ottom chord live of 20.0psf on th er members, with 20 greater than in truss to bearing	h; TCDL=6.0psf; BCDL= zone; cantilever left an s shown; Lumber IoDL= experience for proper an ior Handling, Installing & Iding owner or the owne pection of the temporar assumes no responsibili load nonconcurrent with e bottom chord in all are h BCDL = 10.0psf. nput bearing size. plate capable of withsta	d right exposed ; e 1.60 plate grip DC Id safe handling al & Bracing of Metal r's authorized age y installation restra ty for truss manufa h any other live loa eas where a rectar anding 100 lb uplif	end ver L=1.60 Plate (Plate (ant shal aint/bra acture, ads. agle 3-6 t at joir	tical left a tion. For Connecte I contract cing and handling 6-0 tall by ht(s) 2, 12	and right r general ed Wood xt with a I the g, erectior y 2-0-0 w 2 except	n or 🦊	SEA 0449	25 SEVIEN

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818 Soundside Road Edenton, NC 27932



	11-10-6 11-10-6	<u>22-10-4</u> 10-11-14	8-	1-6-0 -7-12	40-1-12 8-7-12	51-1-10 10-11-14	55-3-8	63-0-0 7-8-8	
Plate Offsets (X,Y)	[2:0-0-4,Edge], [6:0-4-0,	0-3-8], [7:0-3-12	,0-4-8]						
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- Plate Grip DOL	2-0-0 1.15 1.15	CSI. TC 0.74 BC 0.49	DEFL. Vert(Ll Vert(C	/	I/defI L/d >999 240 >999 180	PLATES MT20	GRIP 244/190	

19

3x4 ||

18 37 17

5x9 =

38 16 39 15

14

3x4 ||

21

23 22

5x9 =

2036

BCLL 0.0 BCDL 10.0	* Rep Stress Incr YES	WB 0.89 Matrix-MS	Horz(CT) 0.0	2 14 n/a n/a	Weight: 497 lb FT = 20%
LUMBER-			BRACING-		
TOP CHORD	2x6 SP No.2		TOP CHORD	Structural wood sheathing	g directly applied or 6-0-0 oc purlins, except
BOT CHORD	2x6 SP No.2			2-0-0 oc purlins (6-0-0 ma	ax.): 6-8.
WEBS	2x4 SP No.3 *Except*		BOT CHORD	Rigid ceiling directly appli	ed or 6-0-0 oc bracing.
	7-22,7-17: 2x6 SP No.2		WEBS	1 Row at midpt	5-22, 6-22, 7-22, 8-17
REACTIONS.	(size) 2=0-5-8, 22=0-3-8 (req. 0-4-9), 14=	0-3-8		SUPPI EMENITARY REARIN	IG PLATES SPECIAL ANCHORAGE OR

Max Horz 2=188(LC 11) Max Uplift 2=-49(LC 12), 22=-123(LC 12), 14=-111(LC 12) Max Grav 2=651(LC 21), 22=2921(LC 17), 14=1894(LC 22)

25 34 24 35

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

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-771/178, 3-5=-433/133, 5-6=0/831, 6-7=0/760, 7-8=-655/192, 8-9=-811/180, 9-11=-492/64, 11-12=-362/763 BOT CHORD 2-25=-55/659, 19-22=0/431, 17-19=0/431, 15-17=0/541, 14-15=-578/398, 12-14=-578/398

WEBS 3-25=-477/226. 5-25=-17/701. 5-22=-895/248. 6-22=-765/151. 7-22=-1651/188. 7-19=0/439, 7-17=0/441, 9-15=-755/278, 11-15=-139/1189, 11-14=-1701/418

NOTES-

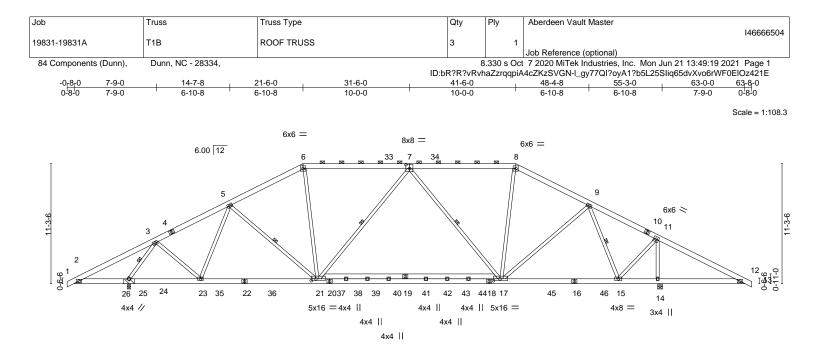
0-<u>6</u>-6

- 1) 2x6 SP No.2 bearing block 12" long at jt. 22 attached to front face with 3 rows of 10d (0.120"x3") nails spaced 3" o.c. 12 Total fasteners. User Defined Bearing crushing capacity= 425psi.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 4x6 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) WARNING: Required bearing size at joint(s) 22 greater than input bearing size.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 22=123, 14=111,
- 11) 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. 5/19/2020 BEFORE USE
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign valid to less only with with twe commendations. This besign is based only upon parameters and properly incorporate this design into the overall 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601







	5-0-0	11-10-6	22-10-4	31-6-0	40-1-12		51-1-10		63-0-0
	5-0-0	6-10-6	10-11-14	8-7-12	8-7-12	1	10-11-14	4-1-14	7-8-8
Plate Olls	ets (X,Y)	[7:0-4-0,0-4-8], [17:0	-7-4,0-2-0], [17:0-1	-12,0-0-0], [21:0-1-12,0-0	-0], [21:0-5-4,0-2-0]				
LOADING TCLL TCDL	(psf) 20.0 10.0	SPACING- Plate Grip DO Lumber DOL	2-0-0 L 1.15 1.15	CSI. TC 0.64 BC 0.78	Vert(LL) -0.3	n (loc) 3 17-21 3 17-21	l/defl L/d >999 240 >999 180	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 * 10.0	Rep Stress In Code IRC201		WB 0.86 Matrix-MS	Horz(CT) 0.0	8 14	n/a n/a	Weight: 504 lb	FT = 20%
LUMBER TOP CHC BOT CHC WEBS	0RD 2x6 SF 0RD 2x6 SF 16-18, 2x4 SF	P No.2 P No.2 *Except* 20-22: 2x6 SP DSS P No.3 *Except* -17: 2x4 SP No.2			BRACING- TOP CHORD BOT CHORD WEBS	2-0-0 o Rigid o	oc purlins (4-5-0 max ceiling directly applied		. , .
REACTIO	Max H Max L	e) 14=0-5-8, 25=0- lorz 25=188(LC 11) Jplift 14=-146(LC 12), Grav 14=2772(LC 58)	25=-226(LC 12)		OTHER MEANS T WIDTH (SUCH AS	O ALLOW COLUMN NSIBILITY	IG PLATES, SPECIAL A FOR THE MINIMUM R I CAPS, BEARING BLO ' OF THE TRUSS MANU IER.	EQUIRED SUPPORT CKS, ETC.)	
FORCES. TOP CHC)RD 2-3=		274, 5-6=-2436/370	less except when shown 0, 6-7=-2198/372, 7-8=-19 765					
BOT CHC	RD 2-25		276, 21-23=-59/22	08, 17-21=-43/2340, 15-1	7=0/1339,				
WEBS	3-23:	=-42/1033, 5-23=-569	/155, 6-21=0/665,	7-21=-360/113, 7-17=-704 1944, 11-14=-2546/529, 3					
fastene 2) Unbala	ers. User Defi nced roof live	ined Bearing crushing e loads have been co	capacity= 425psi. nsidered for this de	t face with 3 rows of 10d sign. ph: TCDI =6 0psf: BCDI =					1100

3) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 4) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 4x6 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) WARNING: Required bearing size at joint(s) 25 greater than input bearing size.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=146, 25=226.

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Aberdeen Vault Master
					146666504
19831-19831A	T1B	ROOF TRUSS	3	1	
					Job Reference (optional)
84 Components (Dunn),	Dunn, NC - 28334,		6	3.330 s Oct	7 2020 MiTek Industries, Inc. Mon Jun 21 13:49:19 2021 Page 2
		ID:b	R?R?vRvł	naZzrqqpiA	4cZKzSVGN-I_gy77QI?oyA1?b5L25SIiq65dvXvo6rWF0ElOz421E

11) Load case(s) 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

12) MULTIPLE LOADCASES – This design is the composite result of multiple load cases.

13) User moving load cases exist: Review the load cases for details.

14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

15) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

16) 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 Except:

50) Reversal: User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 27-30=-20(F)

51) Reversal: 1st User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 21-27=-20(F), 21-37=-50(F=-20), 30-37=-20(F) 52) Reversal: 2nd User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

- Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 27-37=-20(F), 37-39=-50(F=-20), 30-39=-20(F)
- 53) Reversal: 3rd User Defined Moving Load User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
- Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 27-39=-20(F), 39-40=-50(F=-20), 30-40=-20(F) 54) Reversal: 4th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 27-40=-20(F), 19-40=-50(F=-20), 19-30=-20(F)

55) Reversal: 5th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 19-27=-20(F), 19-41=-50(F=-20), 30-41=-20(F) 56) Reversal: 6th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 27-41=-20(F), 41-42=-50(F=-20), 30-42=-20(F)

- 57) Reversal: 7th User Defined Moving Load User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
- Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 27-42=-20(F), 42-43=-50(F=-20), 30-43=-20(F) 58) Reversal: 8th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
- Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 27-43=-20(F), 18-43=-50(F=-20), 18-30=-20(F)
- 59) Reversal: 9th User Defined Moving Load User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 27-44=-20(F), 17-44=-50(F=-20), 17-30=-20(F) 60) User defined: Lumber Increase=1.15, Plate Increase=1.15

- Uniform Loads (plf)
 - Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 27-30=-20(F)
- 61) 1st User Defined Moving Load User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 21-27=-20(F), 21-37=-50(F=-20), 30-37=-20(F) 62) 2nd User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

- Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 27-37=-20(F), 37-39=-50(F=-20), 30-39=-20(F) 63) 3rd User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
- Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 27-39=-20(F), 39-40=-50(F=-20), 30-40=-20(F) 64) 4th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf) Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 27-40=-20(F), 19-40=-50(F=-20), 19-30=-20(F) 65) 5th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 19-27=-20(F), 19-41=-50(F=-20), 30-41=-20(F) 66) 6th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15

(b) Oth Oser Denned Moving Load - Oser denned. Lumber increase=1.15, Frate increase=1.15 Uniform Loads (plf) Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 27-41=-20(F), 41-42=-50(F=-20), 30-42=-20(F)

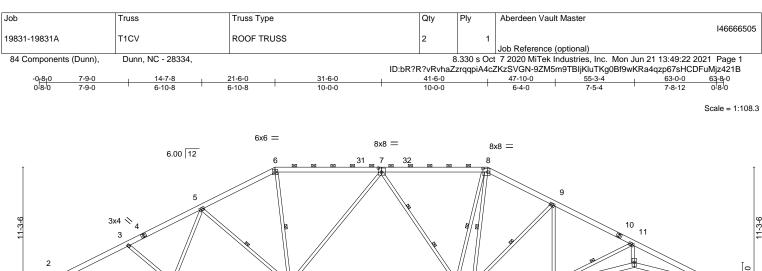
 67) 7th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

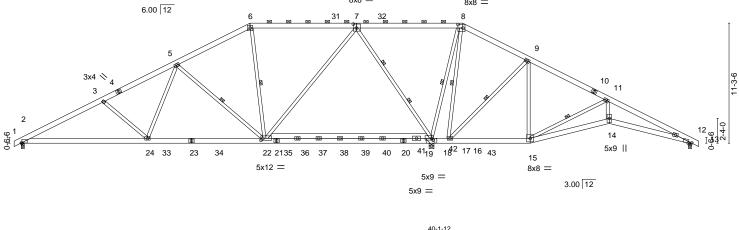
- Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 27-42=-20(F), 42-43=-50(F=-20), 30-43=-20(F) 68) 8th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
- Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 27-43=-20(F), 18-43=-50(F=-20), 18-30=-20(F) 69) 9th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-60(F), 6-8=-60(F), 8-13=-60(F), 27-44=-20(F), 17-44=-50(F=-20), 17-30=-20(F)



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	11-10-6	22-10-4	31-6-0	38-4-0	40-1- 38-6-12			55-3-4	63-0-0
	11-10-6	10-11-14	8-7-12	6-10-0	0-2-12 1-7-	7-8-4		7-5-4	7-8-12
ate Offsets (X,Y) [2:0-0-12,0-0-0], [7:0-3-8,)-4-8]. [8:0-5-8.0)-4-0]. [12:0-3-11.Edge]	. [18:0-1-12.0-2-0])-2-4.0-2-4]		
						,			
OADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.14 18		240	MT20	244/190
CDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.26 24		180		
CLL 0.0 *		YES	WB 0.99	Horz(CT)	0.05	12 n/a	n/a		
CDL 10.0	Code IRC2015/TP	12014	Matrix-MS					Weight: 511	lb FT = 20%
UMBER-				BRACING-					
OP CHORD 2x	6 SP No.2			TOP CHOR	D St	tructural wood	sheathing d	lirectly applied or 4-5	5-1 oc purlins, except
OT CHORD 2x	6 SP No.2 *Except*					-0-0 oc purlins			. , .
15	-20,20-21: 2x6 SP DSS			BOT CHOR	D R	igid ceiling dire	ctly applied	or 6-0-0 oc bracing	, Except:
VEBS 2x	4 SP No.3 *Except*					0-0-0 oc bracin	g: 2-24,22-2	24.	
7-3	22: 2x4 SP No.2, 7-18: 2x4 SP	No.1		WEBS		Row at midpt		5-22, 9-16, 11-15, 6	-22, 8-16, 8-18
					2	Rows at 1/3 pt	S	7-18	
EACTIONS.	(size) 2=0-3-8, 12=0-3-8, 18	3=0-5-8 (req. 0-	5-11)						
	ax Horz 2=-188(LC 10)				SL	JPPLEMENTAR	Y BEARING I	PLATES, SPECIAL AN	ICHORAGE, OR
	ax Uplift 2=-80(LC 12), 12=-44							OR THE MINIMUM REG	
IVI	ax Grav 2=1332(LC 22), 12=4	76(LC 23), 18=3	3620(LC 58)					APS, BEARING BLOC F THE TRUSS MANUF	
	Max. Comp./Max. Ten All for	250 (lb) or lo	es avaant whan shown			R THE BUILDING			AUTORER
()	2-3=-2266/363, 3-5=-1933/318	()							
	3-9=-26/1249, 9-11=0/578, 11-		, 0-7=-031/232, 7-0=-10	5/1551,					
	2-24=-217/1997, 22-24=-44/14		221 16-18=-1053/344	15-16-442/198					
	14-15=-141/630, 12-14=-122/6	,	LE1, 10 10- 1000/011,	10 10 112/100,					
	3-24=-464/222, 5-24=-23/667,		7-22=-91/1364, 7-18=-*	1983/381.					
	9-16=-913/232, 9-15=-13/588,	,	,	,					
NOTES-									
	aring block 12" long at jt. 18 at		ace with 3 rows of 10d	(0.120"x3") nails s	paced 3"	o.c. 12 Total			
	Defined Bearing crushing capa								
	of live loads have been conside								IIIII.
	10; Vult=120mph (3-second gu							all'al C	AD
	sed; MWFRS (directional) and					al left and right	~	IN ATH C	00/11
	or members and forces & MWF is long span truss requires extreme to the section of the section o						~ ~	O O VEES	SSID ALL
	ection guidance, see Guide to							X ~ . OFF	N. TX
	"), jointly produced by SBCA a						~	JCAU	Jenner
	ered design professional for the								
	vidual truss member restraint/b							: SF	EAL : E

permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.

5) Provide adequate drainage to prevent water ponding.

6) All plates are 4x6 MT20 unless otherwise indicated.

 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

9) WARNING: Required bearing size at joint(s) 18 greater than input bearing size.

10) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Continued on page 2

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	T	Turne Turne	05	DI		
Job	Truss	Truss Type	Qty	Ply	Aberdeen Vault Master	146666505
19831-19831A	T1CV	ROOF TRUSS	2	1	Job Reference (optional)	
84 Components (Dunn),	Dunn, NC - 28334,				7 2020 MiTek Industries, Inc. Mon Jun 21 13: ZKZSVGN-9ZM5m9TBIjKluTKg0Bf9wKRa4qzp6	
 Load case(s) 50, 51, 5 are correct for the inte MULTIPLE LOADCAS User moving load case Graphical purlin repres ATTIC SPACE SHOW 	2, 53, 54, 55, 56, 57, 58, 59, nded use of this truss. ES – This design is the comp as exist: Review the load cas sentation does not depict the N IS DESIGNED AS UNINH.	to bearing plate capable of withstanding 60, 61, 62, 63, 64, 65, 66, 67, 68, 69 has posite result of multiple load cases. es for details. size or the orientation of the purlin along	100 lb uplift at jo /have been mod the top and/or be	int(s) 2, 1 ified. Build	2 except (jt=lb) 18=159. ding designer must review loads to verify that	·
LOAD CASE(S) Standard 50) Reversal: User defined Uniform Loads (plf)	d Except: d: Lumber Increase=1.15, Pla	ate Increase=1.15		10 10 0		0(5)
51) Reversal: 1st User De Uniform Loads (plf) Vert: 1-6=-50	fined Moving Load - User del	ined: Lumber Increase=1.15, Plate Increa	ase=1.15		0(F), 15-43=-50(F), 14-15=-20(F), 14-28=-2 6=-20(F), 36-42=-50(F), 42-43=-20(F), 15-4	
52) Reversal: 2nd User De Uniform Loads (plf) Vert: 1-6=-50	efined Moving Load - User de			-20), 36-3	7=-80(F=-50), 37-42=-50(F), 42-43=-20(F),	
53) Reversal: 3rd User De Uniform Loads (plf)	fined Moving Load - User de (F), 6-8=-50(F), 8-13=-50(F),	fined: Lumber Increase=1.15, Plate Incre		, 37-38=-8	0(F=-50), 38-42=-50(F), 42-43=-20(F), 15-4	3=-50(F),
54) Reversal: 4th User De Uniform Loads (plf)	fined Moving Load - User de (F), 6-8=-50(F), 8-13=-50(F),	fined: Lumber Increase=1.15, Plate Incre 25-33=-20(F), 33-34=-50(F), 34-36=-20(I		, 38-39=-8	0(F=-50), 39-42=-50(F), 42-43=-20(F), 15-4	3=-50(F),
55) Reversal: 5th User De Uniform Loads (plf) Vert: 1-6=-50	fined Moving Load - User de (F), 6-8=-50(F), 8-13=-50(F),	fined: Lumber Increase=1.15, Plate Increase=1.15, Plate Increase=20(F), 33-34=-50(F), 34-36=-20(I		, 39-40=-8	0(F=-50), 40-42=-50(F), 42-43=-20(F), 15-4	3=-50(F),
56) Reversal: 6th User De Uniform Loads (plf) Vert: 1-6=-50	(F), 6-8=-50(F), 8-13=-50(F),	fined: Lumber Increase=1.15, Plate Increase=1.15, Plate Increase=20(F), 33-34=-50(F), 34-36=-20(I		, 40-41=-8	0(F=-50), 41-42=-50(F), 42-43=-20(F), 15-4	3=-50(F),
57) Reversal: 7th User De Uniform Loads (plf) Vert: 1-6=-50	Ū	fined: Lumber Increase=1.15, Plate Increase=1.15, Plate Increase=20(F), 33-34=-50(F), 34-36=-20(I		, 41-42=-8	i0(F=-50), 42-43=-20(F), 15-43=-50(F), 14-1	5=-20(F),
Uniform Loads (plf)	Ū.	fined: Lumber Increase=1.15, Plate Increase=1.15, Plate Increase=20(F), 33-34=-50(F), 34-36=-20(F)		, 17-42=-5	0(F=-20), 17-43=-20(F), 15-43=-50(F), 14-1	5=-20(F),
Uniform Loads (plf) Vert: 1-6=-50	(F), 6-8=-50(F), 8-13=-50(F),	fined: Lumber Increase=1.15, Plate Incre 25-33=-20(F), 33-34=-50(F), 34-36=-20(I i0(F), 14-15=-20(F), 14-28=-20(F)		, 19-42=-2	10(F),	
Uniform Loads (plf) Vert: 1-6=-50	Increase=1.15, Plate Increas (F), 6-8=-50(F), 8-13=-50(F), 14-15=-20(F), 14-28=-20(F)	25-33=-20(F), 33-34=-50(F), 34-36=-20(I	F), 36-42=-50(F)	, 42-43=-2	0(F),	
Uniform Loads (plf) Vert: 1-6=-50	(F), 6-8=-50(F), 8-13=-50(F),	ber Increase=1.15, Plate Increase=1.15 25-33=-20(F), 33-34=-50(F), 22-34=-20(I , 14-15=-20(F), 14-28=-20(F)	F), 22-35=-50(F=	-20), 35-3	16=-20(F),	
62) 2nd User Defined Mov Uniform Loads (plf) Vert: 1-6=-50	ing Load - User defined: Lun (F), 6-8=-50(F), 8-13=-50(F),	25-33=-20(F), 33-34=-50(F), 34-35=-20(F), 14-15=-20(F), 14-28=-20(F)	F), 35-36=-50(F=	-20), 36-3	7=-80(F=-50),	
63) 3rd User Defined Mov Uniform Loads (plf) Vert: 1-6=-50	ng Load - User defined: Lum (F), 6-8=-50(F), 8-13=-50(F),	ber Increase=1.15, Plate Increase=1.15 25-33=-20(F), 33-34=-50(F), 34-36=-20(I	F), 36-37=-50(F)	, 37-38=-8	0(F=-50),	
64) 4th User Defined Movi Uniform Loads (plf) Vert: 1-6=-50	ng Load - User defined: Lum (F), 6-8=-50(F), 8-13=-50(F),	, 14-15=-20(F), 14-28=-20(F) ber Increase=1.15, Plate Increase=1.15 25-33=-20(F), 33-34=-50(F), 34-36=-20(I , 14-15=-20(F), 14-28=-20(F)	F), 36-38=-50(F)	, 38-39=-8	0(F=-50),	
65) 5th User Defined Movi Uniform Loads (plf) Vert: 1-6=-50	ng Load - User defined: Lum (F), 6-8=-50(F), 8-13=-50(F),	ber Increase=1.15, Plate Increase=1.15 25-33=-20(F), 33-34=-50(F), 34-36=-20(I	F), 36-39=-50(F)	, 39-40=-8	i0(F=-50),	
		, 14-15=-20(F), 14-28=-20(F) ber Increase=1.15, Plate Increase=1.15				

Continued on page 3

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Job	Truss	Truss Type	Qty	Ply	Aberdeen Vault Master
					146666505
19831-19831A	T1CV	ROOF TRUSS	2	1	
					Job Reference (optional)
84 Components (Dunn),	Dunn, NC - 28334,		6	3.330 s Oct	7 2020 MiTek Industries, Inc. Mon Jun 21 13:49:22 2021 Page 3

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Jun 21 13:49:22 2021 Page 3 ID:bR?R?vRvhaZzrqqpiA4cZKzSVGN-9ZM5m9TBIjKluTKg0Bf9wKRa4qzp67sHCDFuMjz421B

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-6--50(F), 6-8=-50(F), 8-13=-50(F), 25-33=-20(F), 33-34=-50(F), 34-36=-20(F), 36-40=-50(F), 40-41=-80(F=-50), 41-42=-50(F), 42-43=-20(F), 14-15=-20(F), 14-28=-20(F), 14-28=-20(F

67) 7th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-6-50(F), 6-8=-50(F), 8-13=-50(F), 25-33=-20(F), 33-34=-50(F), 34-36=-20(F), 36-41=-50(F), 41-42=-80(F=-50), 42-43=-20(F), 15-43=-50(F), 14-15=-20(F), 14-28=-20(F), 14-28=-20(F)

68) 8th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

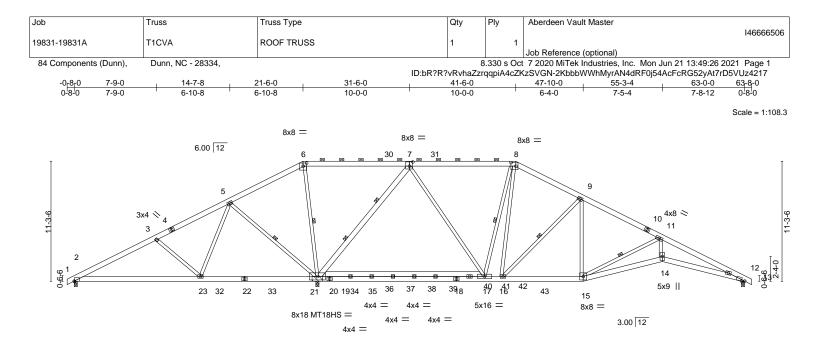
Vert: 1-6=-50(F), 6-8=-50(F), 8-13=-50(F), 25-33=-20(F), 33-34=-50(F), 34-36=-20(F), 36-42=-50(F), 17-42=-50(F=-20), 17-43=-20(F), 15-43=-50(F), 14-15=-20(F), 14-28=-20(F)

69) 9th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-50(F), 6-8=-50(F), 8-13=-50(F), 25-33=-20(F), 33-34=-50(F), 34-36=-20(F), 36-42=-50(F), 19-42=-20(F), 16-19=-50(F=-20), 16-43=-20(F), 14-15=-20(F), 14-15=-20(F), 14-28=-20(F), 14-28=-20(F

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	11-10-6	22-8-8	22-10-4	31-6-0	1 38	-6-12	40-1-	-1 ₁ 2 4	7-10-0	I.	55-3-4	, 6	3-0-0	
	11-10-6	10-10-2	0-1 ["] 12	8-7-12		-0-12	1-7-	-d	7-8-4		7-5-4	7	-8-12	
Plate Offsets (X,Y)	[2:0-0-0,0-0-4], [6:0-4-0,0-	3-8], [7:0-3-12,0-	4-12], [8:	0-5-8,0-4-0],	[12:0-3-7,0-0	13]								
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TP	2-0-0 1.15 1.15 YES 12014	CSI. TC BC WB Matrix	0.94 0.91 0.90 x-MS	DEFL Vert(L Vert(C Horz(C	_) - T) -	in (0.20 0.40 14 0.13	`14́>9 4-15 >9		L/d 240 180 n/a	MT: MT	ATES 20 18HS ight: 522 lb	GRIP 244/190 244/190 FT = 20	7%
		12014	Wath									Igrit: 022 10	11 - 20	570
7-2		No.2			BRAC TOP C BOT C WEBS	HORD	2- 0 R 1	-0-0 oc pi	urlins (2 ng direct nidpt	-2-0 max. ly applied	or 2-2-0 oc		•	except
M. M. M. FORCES. (lb) - N. TOP CHORD 2 BOT CHORD 2 MEBS 3 S	8-9=-627/229, 9-11=-1314/269, 11-12=-3576/472 BOT CHORD 2-23=-1001/104, 20-23=-1292/282, 17-20=-477/252, 16-17=0/531, 15-16=0/1085, 14-15=-332/3133, 12-14=-338/3254													
 fasteners. Beari 2) Unbalanced roo 3) Wind: ASCE 7-' II; Exp B; Enclose exposed; C-C fo 4) WARNING: Thinhandling and err Trusses ("BCSI" qualified registe permanent indiversing. 5) Provide adequa 6) All plates are M 7) All plates are 4x 8) This truss has b 9) * This truss has to 9) * This truss has to 9) * WARNING: Ref 	aring block 12" long at jt. 20 at ing is assumed to be SP No.2. I live loads have been conside 0; Vult=120mph (3-second gu- aed; MWFRS (directional) and members and forces & MWFI s long span truss requires extr action guidance, see Guide to), jointly produced by SBCA ar red design professional for the idual truss member restraint/bit the drainage to prevent water por f20 plates unless otherwise indic een designed for a 10.0 psf bo been designed for a live load o he bottom chord and any other quired bearing size at joint(s) : (s) 12 considers parallel to gra- ping surface	red for this design st) Vasd=95mph; C-C Exterior(2) z RS for reactions s eme care and ext Good Practice for nd TPI. The buildi design and inspe racing. MiTek as: onding. dicated. ated. to chord live lo of 20.0psf on the l r members, with E 20 greater than in	n. TCDL=6 cone; cant shown; Lu perience r Handling ing owne ection of f sumes no bottom cl BoCDL = 1 pott beat	Copsf; BCDL illever left an umber DOL= for proper ar g, Installing & r or the owner the temporar o responsibilit poncurrent witt hord in all ard 0.0psf. ing size.	=6.0psf; h=30 d right expose 1.60 plate grij d safe handli & Bracing of M ar's authorized y installation r ity for truss m h any other liv eas where a r	t; B=4 d ; end DOL= ng and etal Pl agent estrain anufact e loads ectangl	5ft; L=4. d vertica =1.60 le rection late Cont t shall co tt/bracin ture, han s. le 3-6-0	5ft; eave: al left and n. For geinnected V ontract wi g and the ndling, er tall by 2-	=7ft; Ca I right neral Vood ith a ection, o	or		SEA 0449	25 EER.	

MEEDING

818 Soundside Road Edenton, NC 27932

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Aberdeen Vault Master						
19831-19831A	T1CVA	ROOF TRUSS	1	1		146666506					
84 Components (Dunn),	Dunn, NC - 28334,				Job Reference (optional) t 7 2020 MiTek Industries, Inc. Mon Jun 21 13:49:26	2021 Page 2					
	Dunn, NC - 20004,	IC			<pre>x2220 Winter industries, inc. Won 501 21 10:49:20 x2SVGN-2KbbbWWhMyrAN4dRF0j54AcFcRG52yAt7r</pre>						
 Load case(s) 50, 51, are correct for the int MULTIPLE LOADCA User moving load cas Graphical purlin repre ATTIC SPACE SHOW 	52, 53, 54, 55, 56, 57, 58, 59, ended use of this truss. SES – This design is the com ses exist: Review the load cas seentation does not depict the VN IS DESIGNED AS UNINH	posite result of multiple load cases. es for details. size or the orientation of the purlin along	s/have been mod	ified. Build	ding designer must review loads to verify that they						
Uniform Loads (plf) Vert: 1-6=-50	ed: Lumber Increase=1.15, Pla D(F), 6-8=-50(F), 8-13=-50(F),	24-32=-20(F), 32-33=-50(F), 33-35=-20(, 41-43=-2	20(F), 15-43=-50(F), 14-15=-20(F), 14-27=-20(F)						
Uniform Loads (plf) Vert: 1-6=-50	Vert: 1-6=-50(F), 6-8=-50(F), 8-13=-50(F), 24-32=-20(F), 32-33=-50(F), 20-33=-20(F), 20-34=-50(F=-20), 34-35=-20(F), 35-41=-50(F), 41-43=-20(F), 15-43=-50(F),										
52) Reversal: 2nd User D Uniform Loads (plf) Vert: 1-6=-50	Vert: 1-6=-50(F), 6-8=-50(F), 8-13=-50(F), 24-32=-20(F), 32-33=-50(F), 33-34=-20(F), 34-35=-50(F=-20), 35-36=-80(F=-50), 36-41=-50(F), 41-43=-20(F),										
53) Reversal: 3rd User D Uniform Loads (plf) Vert: 1-6=-50	Ū	fined: Lumber Increase=1.15, Plate Incre		, 36-37=-8	30(F=-50), 37-41=-50(F), 41-43=-20(F), 15-43=-50	(F),					
54) Reversal: 4th User D Uniform Loads (plf) Vert: 1-6=-50	efined Moving Load - User de D(F), 6-8=-50(F), 8-13=-50(F),	fined: Lumber Increase=1.15, Plate Incre 24-32=-20(F), 32-33=-50(F), 33-35=-20(, 37-38=-8	30(F=-50), 38-41=-50(F), 41-43=-20(F), 15-43=-50	(F),					
55) Reversal: 5th User D Uniform Loads (plf)	·	fined: Lumber Increase=1.15, Plate Incre 24-32=-20(F), 32-33=-50(F), 33-35=-20(, 38-39=-8	30(F=-50), 39-41=-50(F), 41-43=-20(F), 15-43=-50	(F),					
56) Reversal: 6th User D Uniform Loads (plf)	<u> </u>	fined: Lumber Increase=1.15, Plate Incre 24-32=-20(F), 32-33=-50(F), 33-35=-20(, 39-40=-8	30(F=-50), 40-41=-50(F), 41-43=-20(F), 15-43=-50	(F),					
57) Reversal: 7th User D Uniform Loads (plf)	-	fined: Lumber Increase=1.15, Plate Incre 24-32=-20(F), 32-33=-50(F), 33-35=-20(, 40-41=-8	30(F=-50), 41-43=-20(F), 15-43=-50(F), 14-15=-20	(F),					
Uniform Loads (plf)	efined Moving Load - User de D(F), 6-8=-50(F), 8-13=-50(F),	fined: Lumber Increase=1.15, Plate Incre 24-32=-20(F), 32-33=-50(F), 33-35=-20(, 17-41=-5	50(F=-20), 17-43=-20(F), 15-43=-50(F), 14-15=-20	(F),					
59) Reversal: 9th User D Uniform Loads (plf) Vert: 1-6=-50	efined Moving Load - User de D(F), 6-8=-50(F), 8-13=-50(F),	fined: Lumber Increase=1.15, Plate Incre 24-32=-20(F), 32-33=-50(F), 33-35=-20(50(F), 14-15=-20(F), 14-27=-20(F)		, 41-42=-2	20(F),						
Uniform Loads (plf) Vert: 1-6=-50	r Increase=1.15, Plate Increas 0(F), 6-8=-50(F), 8-13=-50(F),), 14-15=-20(F), 14-27=-20(F)	24-32=-20(F), 32-33=-50(F), 33-35=-20(F), 35-41=-50(F)	, 41-43=-2	20(F),						
Uniform Loads (plf) Vert: 1-6=-50		ber Increase=1.15, Plate Increase=1.15 24-32=-20(F), 32-33=-50(F), 20-33=-20(I . 14-15=-20(F), 14-27=-20(F)	F), 20-34=-50(F=	-20), 34-3	35=-20(F),						
62) 2nd User Defined Mo Uniform Loads (plf) Vert: 1-6=-50	ving Load - User defined: Lun D(F), 6-8=-50(F), 8-13=-50(F),	nber Increase=1.15, Plate Increase=1.15 24-32=-20(F), 32-33=-50(F), 33-34=-20(-20), 35-3	36=-80(F=-50),						
63) 3rd User Defined Mor Uniform Loads (plf) Vert: 1-6=-50	Vert: 1-6=-50(F), 6-8=-50(F), 8-13=-50(F), 24-32=-20(F), 32-33=-50(F), 33-35=-20(F), 35-36=-50(F), 36-37=-80(F=-50),										
64) 4th User Defined Mov Uniform Loads (plf) Vert: 1-6=-50		ber Increase=1.15, Plate Increase=1.15 24-32=-20(F), 32-33=-50(F), 33-35=-20(F), 35-37=-50(F)	, 37-38=-8	30(F=-50),						
65) 5th User Defined Mov Uniform Loads (plf) Vert: 1-6=-50	ving Load - User defined: Lum	ber Increase=1.15, Plate Increase=1.15 24-32=-20(F), 32-33=-50(F), 33-35=-20(F), 35-38=-50(F)	, 38-39=-8	30(F=-50),						
		ber Increase=1.15, Plate Increase=1.15									

Continued on page 3

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Job	Truss	Truss Type	Qty	Ply	Aberdeen Vault Master
					146666506
19831-19831A	T1CVA	ROOF TRUSS	1	1	
					Job Reference (optional)
84 Components (Dunn),	Dunn, NC - 28334,		8	3.330 s Oct	7 2020 MiTek Industries, Inc. Mon Jun 21 13:49:26 2021 Page 3

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Jun 21 13:49:26 2021 Page 3 ID:bR?R?vRvhaZzrqqpiA4cZKzSVGN-2KbbbWWhMyrAN4dRF0j54AcFcRG52yAt7rD5VUz4217

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-6=-50(F), 6-8=-50(F), 8-13=-50(F), 24-32=-20(F), 32-33=-50(F), 33-35=-20(F), 35-39=-50(F), 39-40=-80(F=-50), 40-41=-50(F), 41-43=-20(F), 15-43=-50(F), 41-43=-20(F), 41-43=-20(F 14-15=-20(F), 14-27=-20(F)

67) 7th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-6=-50(F), 6-8=-50(F), 8-13=-50(F), 24-32=-20(F), 32-33=-50(F), 33-35=-20(F), 35-40=-50(F), 40-41=-80(F=-50), 41-43=-20(F), 15-43=-50(F), 14-15=-20(F), 14-15=-20(F 14-27=-20(F)

68) 8th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

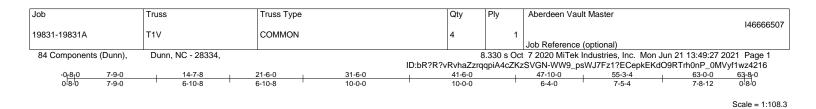
Vert: 1-6=-50(F), 6-8=-50(F), 8-13=-50(F), 24-32=-20(F), 32-33=-50(F), 33-35=-20(F), 35-41=-50(F), 17-41=-50(F=-20), 17-43=-20(F), 15-43=-50(F), 14-15=-20(F), 14-15=-20(F 14-27=-20(F)

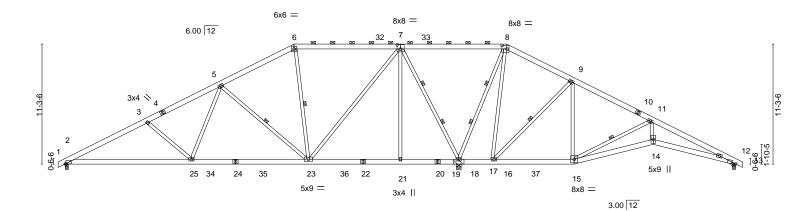
69) 9th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-50(F), 6-8=-50(F), 8-13=-50(F), 24-32=-20(F), 32-33=-50(F), 33-35=-20(F), 35-41=-50(F), 41-42=-20(F), 16-42=-50(F=-20), 16-43=-20(F), 15-43=-50(F), 15-50(F), 15-14-15=-20(F), 14-27=-20(F)

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					40-1-12			
	11-10-6	22-10-4 10-11-14	31-6-0	36-9-0 36-11- 5-3-0 0-2-1	23-2-0	47-10-0	55-3-4 7-5-4	63-0-0 7-8-12
Plate Offsets (X,			5-8,0-4-0], [12:0-3-11,Edge		23-2-0	7-0-4	7-3-4	7-0-12
		, 12,0 1 12], [010 0	, o,o : oj,[:2:0 o ::,2:0g	-]				
OADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL	1.15	TC 0.87	Vert(LL) -0	.15 23-25	>999 240	MT20	244/190
CDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(CT) -0	.25 23-25	>999 180		
BCLL 0.0	* Rep Stress Inc	r YES	WB 0.93	Horz(CT) 0	.05 12	n/a n/a		
BCDL 10.0	Code IRC2015	5/TPI2014	Matrix-MS				Weight: 49	91 lb FT = 20%
UMBER-	1	I	ł	BRACING-				
	2x6 SP No.2			TOP CHORD	Structur	al wood sheathin	g directly applied or 4	-7-10 oc purlins
	2x6 SP No.2				except		g alloony applied of	r ro oo parinto,
	2x4 SP No.3 *Except*					purlins (6-0-0 ma	ax.): 6-8.	
	7-23: 2x4 SP No.2, 7-18: 2x4	SP No.1		BOT CHORD			ied or 6-0-0 oc bracin	ıq.
				WEBS	1 Řow a		5-23, 9-16, 11-15,	
					2 Rows	at 1/3 pts	7-18, 8-18	
REACTIONS.	(size) 2=0-3-8, 12=0-3-8	3, 18=0-5-8 (req. 0)-5-9)					
	Max Horz 2=-188(LC 10)							
I	Max Uplift 2=-77(LC 12), 12:	=-49(LC 12), 18=-1	57(LC 12)					
I	Max Grav 2=1247(LC 21), 1	2=556(LC 22), 18=	=3556(LC 18)					
		050 (11)						
	- Max. Comp./Max. Ten All			07 0 0 0/4004				
OP CHORD	2-3=-2081/336, 3-5=-1748/		, 6-7=-638/234, 7-8=-9/14	27, 8-9=0/1061,				
BOT CHORD	9-11=0/405, 11-12=-1067/1 2-25=-194/1821, 23-25=-22		V272 18 21 E00/272 16	10 704/222				
DOT CHORD	2-25=-194/1821, 25-25=-22			-10=-794/322,				
VEBS	3-25=-466/224, 5-25=-15/6			102/212				
VED3	9-16=-907/229, 9-15=-8/57	,	, ,	,				
	8-16=-72/741, 7-21=0/375,		0, 11-14=0/017, 0-23=-27	4/19,				
	0 10 12/141, 1 21 - 0/010,	0 10= 1000/200						
NOTES-								
) 2x6 SP No.2 b	pearing block 12" long at jt. 1	8 attached to front	face with 3 rows of 10d (0.120"x3") nails spa	ced 3" o.c. 12	2 Total		
	er Defined Bearing crushing							uum.
	oof live loads have been con						and the second s	CADILL
	7-10; Vult=120mph (3-second					ve=7ft; Cat.	TH	UARO
						ind right	ANOT	con VIA La
nbalanced ro ind: ASCE 7 Exp B; Encl	oof live loads have been con	sidered for this des d gust) Vasd=95m and C-C Exterior(2	ph; TCDL=6.0psf; BCDL=6) zone; cantilever left and	right exposed ; end	vertical left a	ve=7ft; Cat. Ind right	AUNTH	CAROLIN

- exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 4) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 4x6 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) WARNING: Required bearing size at joint(s) 18 greater than input bearing size.
- 10) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify Continueation plageazing surface.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling 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 sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





ſ	Job	Truss	Truss Type	Qty	Ply	Aberdeen Vault Master			
	19831-19831A	T1V	COMMON		1	146666507			
	19031-19031A	TIV	COMMON	4	1	Job Reference (optional)			
L	84 Components (Dunn),	Dunn, NC - 28334,	8.330 s Oct 7 2020 MITek Industries, Inc. Mon Jun 21 13:49:28 2021 Page 2						
			ID:bR?F	ID:bR?R?vRvhaZzrqqpiA4cZKzSVGNjjM0CXxtZ5ucOnqMRIZ9bhcCF1FWsEAb9iCZMz4215					

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12 except (jt=lb) 18=157.

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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