RELEASED FOR CONSTRUCTION As Noted on Plans Review

Development Services Department Lee's Summit, Missouri 06/23/2022



816-324-5951 816-324-3835

CRANE-CONSTRUCTION.COM

LETTER OF TRANSMITTAL

DATE	5/26/2022
то	Joe Stewart Architect
	125 Highland Park Avenue
	Excelsior Springs, MO 64024
PHONE	816-830-2754
FAX	
EMAIL	joe@jsa-kc.com

ATTENTION	Joe Stewart								
JOB NO									
RE:									
Market Str	Market Street Center								
Lee's Su	Lee's Summit, MO								
Submittal #09 - Trusses									

WE ARE SENDING YOU via Email

COPIES	DATE CREATED	DESCRIPTION
1		Submittal #09 - Trusses - Layout, Calculations
		Mid-America Truss

REMARKS

5/26/22

For Review and Approval; Prompt Handling Requested, Thank You.

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Crane Construction Company has reviewed the attached submittal and has approved on the basis that all materials will be provided and installed in strict accordance with the Contract Documents, no exceptions/ substitutions. Crane Construction Company's review does no relieve the Subcontractor and/or Supplier the requirements set forth in the Contract Documents NCS By:

SIGNED

Nick Salmons

Date:_



<u>34-</u> ′	1-15																																		
γ	PARAPET HEIGHT 7'6"									$\gamma\gamma$	Y																								
	M2 M2	A M	W2	MZ	MZ	M2	M	W	MZ	M2	M2	M2 M	E E	W	M2 M	M M M	Z Z	M2	M M	M2	M2SGE	M2	M2	MZ	M2	M2	M2 M2	N N N	E M M	M2	M2	MZ	Z Z V	Ž Ž	MZ
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PARAPET HEIGHT

145-10-0

ARCH VERIFY PARAPET HEIGHTS







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





- MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate
- DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4. 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 4 and 46 lb uplift at joint 3.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 1-11-4 from the left end to connect truss(es) 9)
- to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15. Plate Increase=1.15
 - Uniform Loads (plf) Vert: 1-2=-61, 3-4=-20 Concentrated Loads (lb) Vert: 5=-671(F)









Continued on page 2

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RELEASED FOR

Sommed on page 5

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASED FOR

						CONSTRUCTION	
Job	Truss	Truss Type	Qty	Ply	CRANE CONST - MARKET	ST CENTER ON STRUCTION	l
			,	,		As Noted on Plans Rewiew	I
MKT_ST_CTR	M1	Monopitch	20	1			
					Job Reference (optional)	Development Services Departm	ent
Mid America Truss, Je	fferson City, MO - 65101,		8.4	130 s Aug 1	6 2021 MiTek Industries, Inc.	Mon May 23 17:14:10 2022 Page 3	
		ID:I	- gERapFm	nl8k6Mgruy	mui65z94f -10gkPBIAAaFnV	LO9oiAwHYa03fQiqq4c2xxulzDYo?	
			• •		- 0	06/23/2022	

LOAD CASE(S) Standard

- 32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 4-16=-60, 7-16=-83, 8-12=-20, 2-3=-20 Trapezoidal Loads (plf)
 - Vert: 1=-80-to-2=-19, 2=-79-to-4=-60

35) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 2-16=-20, 7-16=-51, 12-18=-20, 8-18=-40, 2-3=-20

36) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 2-16=-60, 7-16=-103, 12-18=-20, 8-18=-40, 2-3=-60 37) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 2-16=-20, 7-16=-46, 12-18=-20, 8-18=-35, 2-3=-20

38) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 2-16=-50, 7-16=-85, 12-18=-20, 8-18=-35, 2-3=-50







								RELEASED FOR	
Job	Truss	Truss Type		Qty	Ply	CRANE CONS	T - MARKET	ST CENTER CONSTRUCTION	
MKT_ST_CTR	M1A	Roof Special		1	1			AS NOTED ON Plansing treating w	
Mid America Truss	Jefferson City, MO - 65101			84	130 s Aug	Job Reference (optional)	Development Services Departme	ent
	6 0 4 0			ID:FqERapFm	8k6Mqruy	ymui65z94fVCE	7cXloxtNe70	VejVDPTUSrcS6ISHXEqigUCkzDY0_	
	6-2-13	+		6-2-13				3-10-2	
								Scale = 1:27.3	
2×6 —			0.32 12						
6x10 =							2x4		
		25	k5 = 11				3	5x5 =	
								-	
				_					
								-12	
					\sim			5-2	
						\rightarrow			
						L		L	
8 2×4 II		7	_				6 4×8 —	5 2×6 II	
			-				4.0 —	210 11	
 	<u>6-2-13</u> 6-2-13			12-5-10 6-2-13				<u> </u>	
Plate Offsets (X,Y)	[1:0-3-8,0-3-8]								
LOADING (psf) TCLL (roof) 20	D.0 SPACING-	2-0-0	CSI.	DEFL.	in	(loc) l/defl	L/d	PLATES GRIP	
Snow (Pf/Pg) 15.4/20	0.0 Plate Grip DC Lumber DOL	L 1.15 1.15	BC 0.51	Vert(LL) Vert(CT)	-0.11	6-7 >999 6-7 >999	360 240	MT20 244/190	
BCLL (0.0 Rep Stress In Code IBC201	cr NO 8/TPI2014	WB 0.65 Matrix-P	Horz(CT) 0.02	5 n/a	n/a	Weight: 97 lb FT = 3%	
BCDL 10	J.0		BR	ACING-					
TOP CHORD 2x6 SF	P No.1		то	P CHORD	Structu	ral wood sheathi	ng directly a	applied or 6-0-0 oc purlins,	
WEBS 2x4 SF	^o No.2 ^o No.2		во	T CHORD	Rigid ce	end verticals. eiling directly app	blied or 5-10	0-3 oc bracing.	
OTHERS 2x4 SF	P No.2								
REACTIONS. (siz	e) 5=Mechanical, 10=0-2-4								
Max L	Jplift 5=-37(LC 16), $10=-42(LC$	12)							
Max 0	Grav 5=691(LC 2), 10=748(LC	2)							
FORCES. (lb) - Max.	. Comp./Max. Ten All forces	250 (lb) or less except	when shown.						
BOT CHORD 6-7=	-997/1475								
1-7= 1-10	-989/1463, 2-7=-403/449, 2-6= =-774/521	=-382/250, 3-6=-327/35	60, 4-6=-830/1246,						
NOTES-									
1) Wind: ASCE 7-16; MWERS (envelope)	/ult=115mph (3-second gust) '	/asd=91mph; TCDL=6	.0psf; BCDL=6.0psf; h	=25ft; Cat. II; E	xp C; En	closed; for members			
and forces & MWFF	RS for reactions shown; Lumbe	r DOL=1.33 plate grip	DOL=1.33						
2) TCLL: ASCE 7-16; DOL=1.15); ls=1.0;	Pr=20.0 psf (roof LL: Lum DOL Rough Cat C; Partially Exp.; C	.=1.15 Plate DOL=1.15 e=1.0; Cs=1.00; Ct=1.	b); Pg=20.0 pst; Pt=15. 10; Min. flat roof snow	4 pst (Lum DO load governs.	L=1.15 P	late			
 Unbalanced snow lo Plates checked for a 	bads have been considered for a plus or minus 3 degree rotati	[·] this design. on about its center.							
5) Refer to girder(s) fo	r truss to truss connections.		angle to grain formula	Ruilding docio	nor chou	ld vorify		OF MISS	
capacity of bearing	surface.		angle to grain formula.	Building desig				NE COL	
 Provide mechanical Provide mechanical 	l connection (by others) of trus l connection (by others) of trus	s to bearing plate at joi s to bearing plate capa	nt(s) 10. ble of withstanding 37	lb uplift at joint	5 and 42	2 lb uplift at		XUEGANG	
joint 10. 9) This truss is design	ed in accordance with the 201	3 International Building	Code section 2306 1 a	and referenced	standaro	ANSI/TPI 1	Z		
	idord			2.5151511000			E	NAN VVV	
1) Dead + Snow (bala	nced): Lumber Increase=1.15,	Plate Increase=1.15					7	F-29713	
Uniform Loads (plf) Vert: 1-11=	71, 4-11=-51, 5-8=-20								
								SONAL EN	
								iviay 24,2022	



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

						RELEASED FOR
Job	Truss	Truss Type	Qty	Ply	CRANE CONST - MAR	KET ST CENTER CONSTRUCTION
MKT_ST_CTR	M1B	Monopitch	1	1		AS NOTED ON FIAISE INSAME
Mid America Truss, Je	fferson City, MO - 65101,		8.	430 s Aug	Job Reference (optional) 16 2021 MiTek Industries,	Inc. Mon May 23-12: 110-2002 Resource
			ID:FqERapFml8k 5-4-8	6Mqruymu	i65z94fzOoVqtmQiBVVk	AUnHDke0iexPsVgBpwN3M02xAzDYnz 06/23/2022
			5-4-8			
						Scale = 1:59.5
		7				
		3				
		5x6				
			12.00 12			
		0-9-0	082 12			
			0.32 12 8 5v6 \\			
			4x8	1		
		4x6 = 1		Ī		
				1-12	μ.	
				5-1-8	- -	
		⊠ 6	5			
		2x6	3x4 =	:		
			5.4.0			
			5-4-8			
LOADING (psf)	SPACING-	2-0-0 CSI.	DEFL.	in	(loc) l/defl L/d	PLATES GRIP
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL Lumber DOL	1.15 TC 0.61 1.15 BC 0.27	Vert(LL) Vert(CT	0.00	6 **** 360 5-6 >999 240	MT20 244/190
TCDL 10.0 BCLL 0.0	Rep Stress Incr	NO WB 0.38	Horz(CT) 0.01	4 n/a n/a	Waight: 67 lb ET - 2%
BCDL 10.0						
LUMBER- TOP CHORD 2x6 SP No	o.1		BRACING- TOP CHORD	Structu	ral wood sheathing direct	ly applied or 5-4-8 oc purlins,
BOT CHORD 2x4 SP No WEBS 2x4 SP No).2 2 *Excent*		BOT CHORD	except Rigid ce	end verticals.	-0-0 oc bracing
6-7: 2x6 S	P No.1		Bor onlong	rtigia ot	sing anoonly appriod of a	
REACTIONS. (size)	6=0-5-8, 4=Mechanical, 5=I	Mechanical				
Max Horz Max Uplifi	6=-406(LC 13) : 6=-460(LC 11), 4=-307(LC	12), 5=-62(LC 12)				
Max Grav	6=696(LC 25), 4=467(LC 24	4), 5=162(LC 13)				
FORCES. (Ib) - Max. Co	mp./Max. Ten All forces 25	0 (lb) or less except when shown.				
BOT CHORD 5-6=-301	//1123, 1-3=-550/891, 1-2=-3 1/839	90/854, 2-3=-1035/570				
WEBS 1-5=-844	1/297					
NOTES- 1) Unbalanced roof live loa	ads have been considered fo	r this design				
2) Wind: ASCE 7-16; Vult=	=115mph (3-second gust) Va	sd=91mph; TCDL=6.0psf; BCDL=6.0p	osf; h=25ft; Cat. II; I	Exp C; En	closed;	
vertical left and right ex	posed;C-C for members and	forces & MWFRS for reactions showr	i; Lumber DOL=1.3	a right ex 3 plate gri	ip DOL=1.33	
 3) TCLL: ASCE 7-16; Pr=2 DOL=1.15): Is=1.0: Rou 	20.0 psf (roof LL: Lum DOL= igh Cat C: Partially Exp.: Ce	1.15 Plate DOL=1.15); Pg=20.0 psf; P =1.0: Cs=1.00: Ct=1.10: Min. flat roof :	f=15.4 psf (Lum DC snow load governs.)L=1.15 P	late	
 4) Unbalanced snow loads 5) Plates checked for a plut 	s have been considered for th	nis design.	<u>j</u>			
6) Refer to girder(s) for tru	ss to truss connections.	about its center.				MILLIN
joint 4 and 62 lb uplift a	inection (by others) of truss t i joint 5.	o bearing plate capable of withstandir	g 460 lb uplift at joi	nt 6, 307	ib uplift at	E OF MISS
 8) This truss is designed in 9) Load case(s) 1, 4, 5, 6. 	n accordance with the 2018 I 21, 22, 24, 25, 26, 27, 32 ha	nternational Building Code section 23 s/have been modified. Building design	06.1 and referenced er must review load	d standard ds to verif	d ANSI/TPI 1.	14 U.I.I
correct for the intended	use of this truss.		and the ten and/or k	ottom ob	and	XUEGANG
11) Gap between inside of	f top chord bearing and first of	liagonal or vertical web shall not exce	ed 0.500in.		Jid.	
LOAD CASE(S) Standard	ł					
1) Dead + Snow (balanced Uniform Loads (plf)	d): Lumber Increase=1.15, Pl	ate Increase=1.15				O. E-29713
Vert: 5-6=-20						
i rapezoidal Loads (plf)	2=-6 2=-57-to-4=-51 3=-131	-to-2=-57				ONALEN
Vert: 1=-80-to-						
Vert: 1=-80-to-:	_ 0,_ 0, 0, 0, 0, 0, 0					May 24.2022

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RELEASED FOR CRANE CONST - MARKET ST CENTER CONSTRUCTION Job Truss Truss Type Qty Ply As Noted on Plans Review MKT ST CTR M1B Monopitch 1 1
 Job Reference (optional)
 Development Services Department

 8.430 s Aug 16 2021 MiTek Industries, Inc.
 Mon May 23 15: 41,17,007, Mag 20 15: 41,17,007, M Mid America Truss, Jefferson City, MO - 65101, LOAD CASE(S) Standard 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 5-6=-20 Trapezoidal Loads (plf) Vert: 1=-60-to-2=-5, 2=-48-to-4=-43, 3=-103-to-2=-48 5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 5-6=-20 Trapezoidal Loads (plf) Vert: 1=-60-to-2=-5, 2=-32-to-4=-27, 3=-87-to-2=-32 6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 5-6=-20 Trapezoidal Loads (plf) Vert: 1=-60-to-2=-5, 2=-53-to-4=-48, 3=-108-to-2=-53 21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 5-6=-20 Trapezoidal Loads (plf) Vert: 1=-80-to-2=-6, 2=-36-to-4=-29, 3=-109-to-2=-36 22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 5-6=-20 Trapezoidal Loads (plf) Vert: 1=-80-to-2=-6, 2=-64-to-4=-57, 3=-137-to-2=-64 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 5-6=-20 Horz: 1-6=18, 1-3=18, 3-7=38, 2-4=-5, 4-5=5, 2-3=6 Trapezoidal Loads (plf) Vert: 1=-60-to-2=-5, 2=-43-to-4=-38, 3=-97-to-2=-42 25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 5-6=-20 Horz: 1-6=-5, 1-3=-5, 3-7=-38, 2-4=-12, 4-5=-18, 2-3=-10 Trapezoidal Loads (plf) Vert: 1=-60-to-2=-5, 2=-35-to-4=-31, 3=-113-to-2=-57 26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 5-6=-20 Horz: 1-6=14, 1-3=14, 3-7=-25, 2-4=-5, 4-5=3, 2-3=5 Trapezoidal Loads (plf) Vert: 1=-60-to-2=-5, 2=-43-to-4=-38, 3=-98-to-2=-43 27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 5-6=-20 Horz: 1-6=-3, 1-3=-3, 3-7=-25, 2-4=-12, 4-5=-14, 2-3=12 Trapezoidal Loads (plf) Vert: 1=-60-to-2=-5, 2=-35-to-4=-31, 3=-91-to-2=-35 32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 5-6=-20 Trapezoidal Loads (plf) Vert: 1=-80-to-2=-6, 2=-66-to-4=-60, 3=-100-to-2=-26









RELEASED FOR CONSTRUCTION CRANE CONST - MARKET ST CENTER AS Noted on Plans Beyiew Job Truss Truss Type Qty Ρlv MKT ST CTR M1G Roof Special Girder 2 Job Reference (optional) Job Reference (optional) Development Services Depart 8.430 s Oct 22 2021 MiTek Industries, Inc. Toe Way 24 12:53:37 202 Depart ID:FqERapFml8k6Mqruymui65294f_-4ubDEZ9nRplzZqH383rR1 1997866441252114;14/2597471 hent Mid America Truss, Jefferson City, MO 65101, Mitek 06/23/2022 LOAD CASE(S) Standard 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 4-16=-51, 7-16=-71, 8-12=-20 Concentrated Loads (lb) Vert: 18=-249(F) 19=-461(F) Trapezoidal Loads (plf) Vert: 1=-80-to-2=-19, 2=-69-to-4=-51, 3=-131-to-2=-69 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 4-16=-43, 7-16=-61, 8-12=-20 Concentrated Loads (lb) Vert: 18=-207(F) 19=-399(F) Trapezoidal Loads (plf) Vert: 1=-60-to-2=-14, 2=-57-to-4=-43, 3=-103-to-2=-57 5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 4-16=-27, 7-16=-40, 8-12=-20 Concentrated Loads (lb) Vert: 18=-207(F) 19=-399(F) Trapezoidal Loads (plf) Vert: 1=-60-to-2=-14, 2=-41-to-4=-27, 3=-87-to-2=-41 6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 4-16=-49, 16-17=-67, 7-17=-61, 8-12=-20 Concentrated Loads (lb) Vert: 18=-207(F) 19=-399(F) Trapezoidal Loads (plf) Vert: 1=-60-to-2=-14, 2=-63-to-4=-49, 3=-109-to-2=-63 21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 4-16=-29, 7-16=-43, 8-12=-20 Concentrated Loads (lb) Vert: 18=-249(F) 19=-461(F) Trapezoidal Loads (plf) Vert: 1=-80-to-2=-19, 2=-48-to-4=-29, 3=-109-to-2=-48 22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 4-16=-58, 16-17=-78, 7-17=-71, 8-12=-20 Concentrated Loads (lb) Vert: 18=-249(F) 19=-461(F) Trapezoidal Loads (plf) Vert: 1=-80-to-2=-19, 2=-77-to-4=-58, 3=-138-to-2=-77 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 4-16=-38, 7-16=-68, 8-12=-20 Horz: 1-12=18, 1-3=18, 3-13=38, 2-7=-5, 8-14=5, 2-3=6 Concentrated Loads (lb) Vert: 18=83(F) 19=19(F) Trapezoidal Loads (plf) Vert: 1=-60-to-2=-14, 2=-52-to-4=-38, 3=-97-to-2=-51 25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 4-16=-31, 7-16=-51, 8-12=-20 Horz: 1-12=-5, 1-3=-5, 3-13=-38, 2-7=-12, 8-14=-18, 2-3=-10 Concentrated Loads (lb) Vert: 18=83(F) 19=19(F) Trapezoidal Loads (plf) Vert: 1=-60-to-2=-14, 2=-45-to-4=-31, 3=-113-to-2=-67 26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 4-16=-38, 7-16=-60, 8-12=-20 Horz: 1-12=14, 1-3=14, 3-13=-25, 2-7=-5, 8-14=3, 2-3=5 Concentrated Loads (lb) Vert: 18=83(F) 19=19(F) Trapezoidal Loads (plf) Vert: 1=-60-to-2=-14, 2=-52-to-4=-38, 3=-98-to-2=-52 XUEGANG 27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33 1 IU Uniform Loads (plf) Vert: 4-16=-31, 7-16=-50, 8-12=-20 Horz: 1-12=-3, 1-3=-3, 3-13=-25, 2-7=-12, 8-14=-14, 2-3=12 Concentrated Loads (lb) Vert: 18=83(F) 19=19(F) Trapezoidal Loads (plf) Vert: 1=-60-to-2=-14, 2=-45-to-4=-31, 3=-91-to-2=-45 32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15 ONA Uniform Loads (plf) Vert: 4-16=-60, 7-16=-83, 8-12=-20 May 24,2022

Continued on page 3

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

							RELEASED FOR
							CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply		CRANE CONST - MARKET S	CENTER Noted on Plans Review
MKT ST CTD	MIC	Deef Special Cirder	2		4		AS NOTED OIT 1 18113 15214 9462
	WIG	Rooi Special Gilder	2			Job Reference (optional)	Development Services Department
Mid America Truss, Jefferson Ci	ity, MO 65101, Mitek				8	8.430 s Oct 22 2021 MiTek Indu	stries, Inc. Tue May 24 12:53:31 2022 Page 3
			ID:FqERapFm	nl8k6Mqruy	ymu	ii65z94f4ubDEZ9hRplzZ0	
LOAD CASE(S) Standar	d						06/23/2022
Concentrated Loads (u Ib)						
Vort: 19- 240	(E) 10 - 461(E)						
Transzoidal Loads (ni	f)						
Vert: 180-to	'/ 219 279-to-460 '	3100-to-239					
53) Reversal: Dead + 0.75	5 Snow (bal) + 0.75(0.6 M)	/WERS Wind (Neg. Int) Left): Lumber	r Increase-1 33 Plate	Increase-	_1 '	22	
Liniform Loads (plf)		in the wind (Neg. int) Eerly. Europe	11010030-1.00, 1 1010	morease-			
Vert: 4-16=-3	8 7-16=-68 8-12=-20						
Horz: 1-12=1	8 1-3=18 3-13=38 2-7=	-5 8-14=5 2-3=6					
Concentrated Loads (lb)	0, 0 1 1-0, 2 0-0					
Vert: 18=-317	(E) 19=-305(E)						
Trapezoidal Loads (pl	() / / / / / / / / / / / / / / / / / / /						
Vert: 1=-60-to	-/ -2=-14. 2=-52-to-4=-38. 3	3=-97-to-2=-51					
54) Reversal: Dead + 0.75	5 Snow (bal.) + 0.75(0.6 N	WFRS Wind (Neg. Int) Right): Lumb	er Increase=1.33. Plat	e Increas	e=1	.33	
Uniform Loads (plf)							
Vert: 4-16=-3	1, 7-16=-51, 8-12=-20						
Horz: 1-12=-5	5, 1-3=-5, 3-13=-38, 2-7=-	12, 8-14=-18, 2-3=-10					
Concentrated Loads (lb)						
Vert: 18=-317	(F) 19=-305(F)						
Trapezoidal Loads (pl	f)						
Vert: 1=-60-to	0-2=-14, 2=-45-to-4=-31, 3	3=-113-to-2=-67					
55) Reversal: Dead + 0.75	5 Snow (bal.) + 0.75(0.6 N	IWFRS Wind (Neg. Int) 1st Parallel):	Lumber Increase=1.33	B, Plate In	ncre	ase=1.33	
Uniform Loads (plf)							
Vert: 4-16=-3	8, 7-16=-60, 8-12=-20						
Horz: 1-12=14	4, 1-3=14, 3-13=-25, 2-7=	-5, 8-14=3, 2-3=5					
Concentrated Loads (lb)						
Vert: 18=-317	'(F) 19=-305(F)						
Trapezoidal Loads (pl	f)						
Vert: 1=-60-to)-2=-14, 2=-52-to-4=-38, 3	3=-98-to-2=-52					
56) Reversal: Dead + 0.75	5 Snow (bal.) + 0.75(0.6 N	IWFRS Wind (Neg. Int) 2nd Parallel):	Lumber Increase=1.3	3, Plate li	ncre	ease=1.33	
Uniform Loads (plf)							
Ven: 4-16=-3	1, 7-16=-50, 8-12=-20	40 0 44 44 0 0 40					
HUIZ: I-IZ=-3	3, 1-3=-3, 3-13=-23, 2-7=- lb)	12, 8-14=-14, 2-3=12					
	10) 7(E) 10- 205(E)						
	(F) 19=-303(F) A						
	1) > 2_ 14 2_ 45 to 4_ 24 4	2 - 01 to $2 - 45$					
ven. i=-60-10	-2 = 14, 2 = 40 = 10 - 4 = -31, 3	5=-31-10-2=-43					









						RELEASED FOR
Job	Truss	Truss Type	Qty	Ply	CRANE CONST - MARKET	ST CENTER CONSTRUCTION As Noted on Planse Restiew
MKT_ST_CTR	M1GE	GABLE	2		1	
Mid America Truss, Je	∫ ⊮fferson City, MO - 65101,		ہ ID:FqERapFm	3.430 s Au Il8k6Mqruy	Job Reference (optional) g 16 2021 MiTek Industries, Inc. ymui65z94fs91?gEpxlQ?xDno	Development Services Department Mon May 222 13: 13 January Missouri YW2paAYogKTVR 202, 295428 Ynv
LOAD CASE(S) Standar	4					08/23/2022
1) Dead + Snow (balanced	d): Lumber Increase=1.15. P	late Increase=1.15				
Uniform Loads (plf)	, ,					
Vert: 6-33=-51,	, 16-33=-71, 17-30=-20					
I rapezoidal Loads (plf)	4-10 4-60 to 6-54 2-1	21 to 1- 60				
4) Dead + 0.75 Snow (bala	anced): Lumber Increase=1.	15. Plate Increase=1.15				
Uniform Loads (plf)	,	-,				
Vert: 6-33=-43,	, 16-33=-61, 17-30=-20					
I rapezoidal Loads (plf)	1-11 1-57-to-6-15 3-1	03-to-157				
5) Dead + 0.75 Snow (Unit	bal. Left): Lumber Increase=	1.15, Plate Increase=1.15				
Uniform Loads (plf)						
Vert: 6-33=-27,	, 16-33=-40, 17-30=-20					
Vert: 1=-60-to-	414 441-to-629 38	7-to-4=-41				
6) Dead + 0.75 Snow (Unit	bal. Right): Lumber Increase	=1.15, Plate Increase=1.15				
Uniform Loads (plf)	0,					
Vert: 6-33=-49,	, 33-35=-67, 16-35=-61, 17-3	30=-20				
Vert: 1=-60-to-	414 463-to-651 31	09-to-4=-63				
21) Dead + Snow (Unbal.	Left): Lumber Increase=1.15	5, Plate Increase=1.15				
Uniform Loads (plf)						
Vert: 6-33=-2	9, 16-33=-43, 17-30=-20					
Vert: 1=-80-to) -4=-19, 4=-48-to-6=-32, 3=-	109-to-4=-48				
22) Dead + Snow (Unbal.	Right): Lumber Increase=1.4	15, Plate Increase=1.15				
Uniform Loads (plf)	0 00 05 70 40 05 74 47					
Vert: 6-33=-5 Trapezoidal Loads (pli	3, 33-35=-78, 16-35=-71, 17 A	-30=-20				
Vert: 1=-80-to) -4=-19, 4=-77-to-6=-62, 3=-	138-to-4=-77				
24) Dead + 0.75 Snow (ba	I.) + 0.75(0.6 MWFRS Wind	I (Neg. Int) Left): Lumber Increase	=1.33, Plate Increase=	1.33		
Uniform Loads (plf)	0 16 00 - 60 16 00 - E 17 (30 30				
Horz: 1-30=18	3, 10-33=-08, 10-32=-5, 17-3 8 1-3=18 3-31=38 4-16=-5	16-17=5 3-4=6				
Trapezoidal Loads (pl	i)	,				
Vert: 1=-60-to	-4=-14, 4=-52-to-6=-41, 3=-	97-to-4=-51				
25) Dead + 0.75 Snow (ba	il.) + 0.75(0.6 MWFRS Wind	I (Neg. Int) Right): Lumber Increase	e=1.33, Plate Increase	=1.33		
Vert: 6-33=-3	1. 16-33=-51. 16-32=18. 17-	30=-20				
Horz: 1-30=-5	, 1-3=-5, 3-31=-38, 4-16=-12	2, 16-17=-18, 3-4=-10				
Trapezoidal Loads (pl	·)	112 10 1 67				
26) Dead + 0 75 Snow (ba	-4=-14, $4=-45-10-6=-33$, $3=-31$	l (Neg. Int) 1st Parallel): Lumber In	crease=1.33 Plate Inc	rease=1	33	
Uniform Loads (plf)) · • • • • • • • • • • • • • • • • • •					
Vert: 6-33=-3	3, 16-33=-60, 16-32=-3, 17-3	30=-20				
Horz: 1-30=14	4, 1-3=14, 3-31=-25, 4-16=-5	5, 16-17=3, 3-4=5				
Vert: 1=-60-to) -4=-14. 4=-52-to-6=-41. 3=-'	98-to-4=-52				
27) Dead + 0.75 Snow (ba	al.) + 0.75(0.6 MWFRS Wind	l (Neg. Int) 2nd Parallel): Lumber I	ncrease=1.33, Plate In	crease=1	.33	
Uniform Loads (plf)	4 40 00 50 40 00 44 47	20. 20				
Vert: 6-33=-3 Horz: 1-30=-3	1, 16-33=-50, 16-32=14, 17- 1-3=-3_3-31=-25_4-16=-1	30=-20 2 16-17=-14 3-4=12				
Trapezoidal Loads (pl	() () () () () () () () () () () () () (2, 10 11 - 11, 0 1-12				
Vert: 1=-60-to	-4=-14, 4=-45-to-6=-33, 3=-	91-to-4=-45				
32) Dead + Minimum Snor	w: Lumber Increase=1.15, P	late Increase=1.15				
Vert: 6-33=-6	0, 16-33=-83, 17-30=-20					
Trapezoidal Loads (pl))					
Vert: 1=-80-tc	-4=-19, 4=-79-to-6=-63, 3=-	100-to-4=-39				





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16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

RELEASED FOR

Job	Truss	Truss Type	Qty	Ply	CRANE CONST - MARKET	ST CENTER CONSTRUCTION
MICT OT OTD		N da u a a titala	50			As Noted on Plans Reader
	M2	Monopitch	52	1	Job Reference (optional)	Development Services Department
Mid America Truss,	Jefferson City, MO - 65101,		8.4	30 s Aug	16 2021 MiTek Industries, Inc.	Mon May 23 17:14:17 2022 Page 2
			ID:FqERapFm	nl8k6Mqru	ymui65z94fKMbOtaqZWj7or	xNk3mKpjILILt3Jswz6Dd7pcOzDYnu
IOAD CASE(S) Stondo	rd					00/20/2022
4) Dead + 0 75 Snow (ba	lanced): Lumber Increase=1 *	15 Plate Increase=1 15				
Uniform Loads (plf)						
Vert: 2-15=-4	3, 5-15=-61, 6-10=-20					
Trapezoidal Loads (pl)					
Vert: 1=-103-	0-2=-43	15 Plate Increase-1 15				
Uniform Loads (plf)	ibal. Left). Lumber increase-	1.10, 1 ale molease=1.10				
Vert: 2-15=-4	9, 5-15=-67, 6-10=-20					
Trapezoidal Loads (pli)					
Vert: 1=-103-	o-14=-91, 14=-97-to-2=-49	4.45 Dista la secona 4.45				
6) Dead + 0.75 Snow (UI	nbal. Right): Lumber Increase	=1.15, Plate Increase=1.15				
Vert: 2-15=-2	7 5-15=-40 6-10=-20					
Trapezoidal Loads (pl)					
Vert: 1=-87-to	-2=-27					
21) Dead + Snow (Unbal	. Left): Lumber Increase=1.15	, Plate Increase=1.15				
Uniform Loads (plf)						
Trapezoidal Loads (r	08, 5-15=-78, 6-10=-20					
Vert: 1=-131	-to-14=-115, 14=-123-to-2=-5	8				
22) Dead + Snow (Unbal	. Right): Lumber Increase=1.1	5, Plate Increase=1.15				
Uniform Loads (plf)						
Vert: 2-15=-	29, 5-15=-43, 6-10=-20					
Vert· 1=-100	-10-2=-29					
24) Dead + 0.75 Snow (b	al.) + 0.75(0.6 MWFRS Wind	(Neg. Int) Left): Lumber Increase=1.33, Plate	e Increase=1.	33		
Uniform Loads (plf)		(13), 1, 1111111111,				
Vert: 2-15=-	31, 5-15=-60, 6-10=-20					
Horz: 1-10=	18, 1-11=38, 1-5=-12, 6-12=5					
I rapezoidal Loads (p	nr) :					
25) Dead + 0.75 Snow (b	al.) + 0.75(0.6 MWFRS Wind	(Neg. Int) Right): Lumber Increase=1.33, Pla	ate Increase="	1.33		
Uniform Loads (plf)						
Vert: 2-15=-	38, 5-15=-58, 6-10=-20					
Horz: 1-10=	5, 1-11=-38, 1-5=-5, 6-12=-18	3				
Vert: 1=-98-	nn) :∩-2=-38					
26) Dead + 0.75 Snow (b	al.) + 0.75(0.6 MWFRS Wind	(Neg. Int) 1st Parallel): Lumber Increase=1.3	33, Plate Incre	ease=1.33	3	
Uniform Loads (plf)	, ,	(3)				
Vert: 2-15=-	31, 5-15=-52, 6-10=-20					
Horz: 1-10= Tropozoidal Loada (r	14, 1-11=-25, 1-5=-12, 6-12=3					
Vert: 1=-91-	in-2=-31					
27) Dead + 0.75 Snow (b	al.) + 0.75(0.6 MWFRS Wind	(Neg. Int) 2nd Parallel): Lumber Increase=1.	.33, Plate Incr	ease=1.3	3	
Uniform Loads (plf)						
Vert: 2-15=-	38, 5-15=-58, 6-10=-20					
Horz: 1-10= Transported Leads (r	·3, 1-11=-25, 1-5=-5, 6-12=-14	ł				
Vert: 1=-98-	n) n-2=-38					
32) Dead + Minimum Sn	ow: Lumber Increase=1.15, Pl	ate Increase=1.15				
Uniform Loads (plf)						
Vert: 2-15=-	60, 5-15=-83, 6-10=-20					
I rapezoidal Loads (p	NT) -to-260					
ven. 1=-140	10 2-00					



May 24,2022



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Continued on page 2

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						RELEASED FOR
Job	Truss	Truss Type	Qty	Ply	CRANE CONST - MARKE	
MKT_ST_CTR	M2SGE	Monopitch Structural Gable	1		1	
Mid America Truss,	Jefferson City, MO - 65101,		ID:FqERapFmI	3.430 s Au 8k6Mqruyr	g 16 2021 MiTek Industries, In nui65z94foY9m4wrBH1FfS5	Development Services Department c. Mon May 23.17: 13:18:2027 Page 20 vxdTr2Fzuw4HPybNDC8HM99c2Vrit 06/23/2022
LOAD CASE(S) Standa 1) Dead + Snow (balance Uniform Loads (plf) Vert: 2-26=-5	rd ed): Lumber Increase=1.15 1 5-26=-71 6-10=-20	, Plate Increase=1.15				
Trapezoidal Loads (pli	f) to-2–-51					
4) Dead + 0.75 Snow (ba Uniform Loads (plf) Vert: 2-26=-4:	alanced): Lumber Increase: 3, 5-26=-61, 6-10=-20	=1.15, Plate Increase=1.15				
Trapezoidal Loads (pl Vert: 1=-103-	f) to-2=-43					
5) Dead + 0.75 Snow (U Uniform Loads (plf) Vert: 2-26=-4	nbal. Left): Lumber Increas 9, 5-26=-67, 6-10=-20	e=1.15, Plate Increase=1.15				
Trapezoidal Loads (pl Vert: 1=-103-	f) to-25=-91, 25=-97-to-2=-49)				
6) Dead + 0.75 Snow (Un Uniform Loads (plf)	nbal. Right): Lumber Increa	se=1.15, Plate Increase=1.15				
Vert: 2-26=-2 Trapezoidal Loads (pli	7, 5-26=-40, 6-10=-20 f)					
21) Dead + Snow (Unbal Uniform Loads (plf)	I. Left): Lumber Increase=1	.15, Plate Increase=1.15				
Vert: 2-26=- Trapezoidal Loads (p	58, 5-26=-78, 6-10=-20 blf)	59				
22) Dead + Snow (Unbal Uniform Loads (olf)	I. Right): Lumber Increase=	=-56 =1.15, Plate Increase=1.15				
Vert: 2-26=- Trapezoidal Loads (p	29, 5-26=-43, 6-10=-20 blf)					
Vert: 1=-109 24) Dead + 0.75 Snow (b	9-to-2=-29 bal.) + 0.75(0.6 MWFRS W	ind (Neg. Int) Left): Lumber Increase=1.	33, Plate Increase=	1.33		
Vert: 2-26=- Horz: 1-10=	31, 5-26=-60, 6-10=-20 18 1-11=38 1-5=-12 6-23	=5				
Trapezoidal Loads (p Vert: 1=-91-	blf) to-2=-31					
25) Dead + 0.75 Snow (b Uniform Loads (plf)	oal.) + 0.75(0.6 MWFRS W	ind (Neg. Int) Right): Lumber Increase=	1.33, Plate Increase	=1.33		
	38, 5-26=-58, 6-10=-20 -5, 1-11=-38, 1-5=-5, 6-23= \lf\	18				
Vert: 1=-98- 26) Dead + 0.75 Snow (b	to-2=-38 bal.) + 0.75(0.6 MWFRS W	ind (Neg. Int) 1st Parallel): Lumber Incre	ease=1.33, Plate In	crease=1.	33	
Uniform Loads (plf) Vert: 2-26=-	31, 5-26=-52, 6-10=-20					
Horz: 1-10= Trapezoidal Loads (p Vert: 191-	14, 1-11=-25, 1-5=-12, 6-23 blf) to-231	3=3				
27) Dead + 0.75 Snow (b Uniform Loads (plf)	bal.) + 0.75(0.6 MWFRS W	ind (Neg. Int) 2nd Parallel): Lumber Incr	ease=1.33, Plate Ir	crease=1	.33	
Vert: 2-26=- Horz: 1-10=-	38, 5-26=-58, 6-10=-20 -3, 1-11=-25, 1-5=-5, 6-23=	14				
Trapezoidal Loads (p Vert: 1=-98-	olf) to-2=-38					
32) Dead + Minimum Sn Uniform Loads (plf)	ow: ∟umber Increase=1.15	, Plate Increase=1.15				
Trapezoidal Loads (p Vert: 1=-140	Dlf))-to-2=-60					









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 property incorporate this design in to 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing tabrication, 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



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Job	Truss	Truss Type	Qty	Ply	CRANE CONST - MARKET	ST CENTER CONSTRUCTION
MKT_ST_CTR	М3	MONOPITCH	20	1		AS NOLEU ON FIAISZ INAASE
					Job Reference (optional)	Development Services Department
Mid America Truss,	lefferson City, MO - 65101,		8. ID:FqERapFml8	430 s Aug k6Mqruym	16 2021 MiTek Industries, Inc. ui65z94fkxHWVcsRpeVNiP6	Mon May 23 17:13 17:02 Missouri JlutWKOzKK58C3Qy ybMD jzD Ynr
						06/23/2022
LOAD CASE(S) Standa	rd Except:					
Vert: 1-16=-71	16-17=-51 8-12=-20 5-7=-	51				
Trapezoidal Loads (plf)					
Vert: 17=-51-t	o-5=-59, 5=-8-to-6=-80					
4) Dead + 0.75 Snow (ba	lanced): Lumber Increase=1.7	15, Plate Increase=1.15				
Uniform Loads (pif)	1 4-1643 9-1220 5-74	3				
Trapezoidal Loads (plf)	5				
Vert: 4=-43-to	, -5=-52, 5=-9-to-6=-60, 9=-18-	to-8=-80				
5) Dead + 0.75 Snow (Ur	bal. Left): Lumber Increase=1	1.15, Plate Increase=1.15				
Uniform Loads (plf)	7 4 16 40 0 12 20 5 7 4	2				
Trapezoidal Loads (plf)	3				
Vert: 4=-49-to	, -5=-58, 5=-9-to-6=-60, 9=-18-	to-8=-80				
Dead + 0.75 Snow (Ur	bal. Right): Lumber Increase	=1.15, Plate Increase=1.15				
Uniform Loads (plf)		_				
Vert: 1-16=-40 Transzoidal Loads (plf), 4-16=-27, 9-12=-20, 5-7=-2	/				
Vert: 4=-27-to	/ -5=-36. 5=-9-to-6=-60. 9=-18-	to-8=-80				
21) Dead + Snow (Unbal	. Left): Lumber Increase=1.15	, Plate Increase=1.15				
Uniform Loads (plf)						
Vert: 1-16=-7	78, 16-17=-58, 8-12=-20, 5-7= ^{IE}	51				
Vert: 17=-58	-to-5=-66 5=-8-to-6=-80					
22) Dead + Snow (Unbal	. Right): Lumber Increase=1.1	5, Plate Increase=1.15				
Uniform Loads (plf)						
Vert: 1-16=-4	43, 16-17=-29, 8-12=-20, 5-7=	29				
I rapezoidal Loads (p	IT) -to-537 58-to-680					
24) Dead + 0.75 Snow (b	al.) + 0.75(0.6 MWFRS Wind	(Neg. Int) Left): Lumber Increase=1.	.33, Plate Increase=1	.33		
Uniform Loads (plf)	, (,			
Vert: 1-16=-6	60, 4-16=-31, 9-12=-20, 5-7=-	53				
HOIZ: 12-14= Tranezoidal Loads (n	=18, 1-5=-12, 6-8=5, 6-7=5, 7- .lf)	13=38, 5-7=10				
Vert: 4=-31-t		3-to-8=-80				
25) Dead + 0.75 Snow (b	al.) + 0.75(0.6 MWFRS Wind	(Neg. Int) Right): Lumber Increase=	1.33, Plate Increase=	=1.33		
Uniform Loads (plf)		07				
Vent: 1-16=-		37 7-1338 5-76				
Trapezoidal Loads (p	lf)	1 10-00, 0 1-0				
Vert: 4=-38-t	o-5=-47, 5=-9-to-6=-60, 9=-18	8-to-8=-80				
26) Dead + 0.75 Snow (b	al.) + 0.75(0.6 MWFRS Wind	(Neg. Int) 1st Parallel): Lumber Incre	ease=1.33, Plate Inci	ease=1.3	3	
Vert: 1-16=-	57 4-16=-31 9-12=-20 5-7=-	31				
Horz: 12-14=	=14, 1-5=-12, 6-8=3, 6-7=3, 7-	-13=25, 5-7=-12				
Trapezoidal Loads (p	lf)					
Vert: 4=-31-t	0-5=-40, 5=-9-to-6=-60, 9=-18	3-to-8=-80	raaaa 1.00 Diata ina		20	
27) Dead + 0.75 Show (b Uniform Loads (blf)	al.) + 0.75(0.6 MWFRS Wind	(Neg. Int) 2nd Parallel): Lumber Incl	rease=1.33, Plate Inc	rease=1.	33	
Vert: 1-16=-6	65, 4-16=-38, 9-12=-20, 5-7=-	38				
Horz: 12-14=	-3, 1-5=-5, 6-8=-14, 6-7=-14,	7-13=25, 5-7=-5				
Trapezoidal Loads (p	lf)					
32) Dead + Minimum Sno	0-5=-47, 5=-9-10-6=-60, 9=-18	5-10-8=-80 ate Increase=1 15				
Uniform Loads (plf)						
Vert: 1-16=-8	83, 16-17=-60, 8-12=-20, 5-7=	20				
Trapezoidal Loads (p	lf)					
vert: 17=-60	-เบ-ฃ=-ซฮ, ๖=-ฮ-เ0-๒=-ชบ					
						ALLIN.









Job Truss Truss Type Qty Ply CRANE CONST - MARKET ST C	
	As Noted on Plane Periow
	AS NOTED OILLING STURATORE M
MKT_ST_CTR M3GE GABLE 2 1	
Mid America Truss Jefferson City MO - 65101 8430 s Aug 16 2021 MiTck (optional) Di	Development Services Department
ID:FqERapFml8k6Mqruymui65z94fhJPHwHuhLGH4¥iFis.	isJw_Qp2l7uzAXQNrMvraibzDYnp
	06/23/2022
LOAD CASE(S) Standard	
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (pit)	
Velt. 1-5-71, 5-11-51, 10-29-20, 12-14-51	
Vert: 11=53-to-12=-68, 12=-17-to-15=-80	
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 1-5=-61, 5-11=-43, 16-29=-20, 12-14=-43	
Irapezoidal Loads (pii)	
5) Dead + 0.75 Snow (Linbai Left): Lumber Increase=1.15 Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 1-5=-67, 5-11=-49, 16-29=-20, 12-14=-43	
Trapezoidal Loads (plf)	
Vert: 11=-50-to-12=-62, 12=-13-to-15=-60	
b) Dead + 0.75 Show (Unbal. Kight): Lumber increase=1.15, Plate increase=1.15	
Onitothi Edats (pi) Vert: 1-5=40 5-11=-27 16-29=-20 12-14=-27	
Trapezoidal Loads (plf)	
Vert: 11=-28-to-12=-40, 12=-13-to-15=-60	
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 1-5=-78, 5-11=-58, 16-29=-20, 12-14=-51 Transpoidal Logis (nfi	
Vert: 11=-60-to-12=-76. 12=-17-to-15=-80	
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 1-5=-43, 5-11=-29, 16-29=-20, 12-14=-29	
Trapezoidal Loads (pft)	
Vert: 11=-31-10-12=-47, 12=-17-00-15=-80 24) Dead + 0.75 (Down (ha) + 0.75(0.6 MWEPS Wind (here lat) off) + 1 umber Increase - 1.33. Plate Increase - 1.33.	
Uniform Loads (plf)	
Vert: 1-30=-18, 1-5=-60, 5-11=-31, 16-29=-20, 12-14=-53	
Horz: 1-29=18, 1-12=-12, 15-16=5, 14-15=5, 14-31=38, 12-14=10	
Trapezoidal Loads (plf)	
Vert: 11=-32-t0-12=-44, 12=-13-t0-15=-50 25 Dood + 0.75 Spow (ba) - 0.75(0.6 MWEPS Wind (blog. lat) Picht): Lumber Instructor-122 Plate Instructor-122	
2) Deau + 0.75 Show (bail) + 0.75(0.0 WWW KS Wind (Neg. int) Kigit). Lamber increase=1.35, Frate increase=1.35	
Vert: 1-30=5, 1-5=-58, 5-11=-38, 16-29=-20, 12-14=-37	
Horz: 1-29=-5, 1-12=-5, 15-16=-18, 14-15=-18, 14-31=-38, 12-14=-6	
Trapezoidal Loads (plf)	
Vert: 11=-40-to-12=-51, 12=-13-to-15=-60	
20) Dead + 0.75 Show (bail) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber increase=1.53, Plate increase=1.53	
Vert: 1-30=-14, 1-5=-57, 5-11=-31, 16-29=-20, 12-14=-31	
Horz: 1-29=14, 1-12=-12, 15-16=3, 14-15=3, 14-31=25, 12-14=-12	
Trapezoidal Loads (plf)	
Vert: 11=-32-to-12=-44, 12=-13-to-15=-60	
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33	
Oninonin Loads (pin) Vent: 1:30=3 1-5=-65 5-11=-38 16-29=-20 12-14=-38	
Horz: 1-29=-3, 1-12=-5, 15-16=-14, 14-15=-14, 14-31=25, 12-14=-5	
Trapezoidal Loads (plf)	
Vert: 11=-40-to-12=-51, 12=-13-to-15=-60	
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (pir) Vert: 1-583 5-1160 16-2920 12-1420	
Tracezoidal Loads (olf)	
Vert: 11=-62-to-12=-77, 12=-17-to-15=-80	









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				RELEASED FOR
	_			CONSTRUCTION
Truss Type	Qty	Ply	CRANE CONST - MARKET	ST CENTER ON STRUCTION
				As Noted on Plans_nRenkiew
MONOPITCH	52	1		
			Job Reference (optional)	Development Services Department
	8.4	130 s Aug	16 2021 MiTek Industries, Inc.	Mon May 23 17:14:23 2022 Page 2
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LOAD CASE(S) Standard		
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15		
Uniform Loads (plf)		
Vert: 1-15=-61, 4-15=-43, 6-10=-20		
Trapezoidal Loads (plf)		
Vert: 4=-43-to-5=-103		
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15		
Uniform Loads (plf)		
Vert: 1-14=-61, 14-15=-67, 4-15=-49, 6-10=-20		
Trapezoidal Loads (plf)		
Vert: 4=-49-to-5=-109		
Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15		
Uniform Loads (plf)		
Vert: 1-15=-40, 4-15=-27, 6-10=-20		
Trapezoidal Loads (plf)		
Vert: 4=-27-to-5=-87		
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15		
Uniform Loads (plf)		
Vert: 1-14=-71, 14-15=-78, 4-15=-58, 6-10=-20		
Trapezoidal Loads (plf)		
Vert: 4=-58-to-5=-138		
 Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15 		
Uniform Loads (plf)		
Vert: 1-15=-43, 4-15=-29, 6-10=-20		
Trapezoidal Loads (plf)		
Vert: 4=-29-to-5=-109		
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Pla	te Increase=1.33	
Uniform Loads (plf)		
Vert: 1-15=-60, 4-15=-31, 6-10=-20		
Horz: 10-12=18, 1-5=-12, 5-6=5, 5-11=38		
Trapezoidal Loads (plf)		
Vert: 4=-31-to-5=-91		
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, P	late Increase=1.33	
Uniform Loads (plf)		
Vert: 1-15=-58, 4-15=-38, 6-10=-20		
Horz: 10-12=-5, 1-5=-5, 5-6=-18, 5-11=-38		
Trapezoidal Loads (plf)		
Vert: 4=-38-to-5=-98		
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1	.33, Plate Increase=1.33	
Uniform Loads (pit)		
Vert: 1-15=-57, 4-15=-31, 6-10=-20		
Horz: 10-12=14, 1-5=-12, 5-6=3, 5-11=25		
I rapezoidal Loads (pir)		
Vert: 4=-31-to-5=-91		
27) Dead + 0.75 Snow (bai.) + 0.75(0.6 MWFRS wind (Neg. Int) 2nd Parallel): Lumber Increase=	1.33, Plate Increase=1.33	
Vert: 1-15=-65, 4-15=-38, 6-10=-20		
Horz: 10-12=-3, 1-5=-5, 5-6=-14, 5-11=25		
I rapezoidal Loads (pir)		
Vert: 4=-38-00-Density - 0-20-00-00-00-00-00-00-00-00-00-00-00-00		
52) Deau + Minimum Show: Lumber increase=1.15, Plate Increase=1.15		
ven. 1-10=-83, 4-10=-80, 8-10=-20 Tranazaidal Laada (alf)		
Nort: $4 = 60$ to $5 = 140$		
V GIL +UV-U-U-1+V		

Job

MKT_ST_CTR

Mid America Truss,

Truss

Jefferson City, MO - 65101,

M4



May 24,2022



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® 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

16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

Jake True Trues T							RELEASED FOR	
Interf Marge Monopatch Structural Gable 1 1 1 De Reference (optional) Description Md America Tusas Addresson Get, MO - 65101. 8.430 s Aug 16 2021 MTek Industres, Inc. Mon Mug 2014. Signature T Description	Job	Truss	Truss Type	Qty	Ply	CRANE CONST - MARKET	ST CENTER CONSTRUCTION	
Initial America Trass. Jetterson City, MO - 65101. Laber Augustic Transmission Control of Laber Augustic Control of Laber Auguste Control of La	MKT_ST_CTR	M4SGE	Monopitch Structural Gable	1	1		A3 NOTEG ON 1 10132 113408-	
IOAD CASE(5) Standard 1) Deat 4.50% (bialance): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (pl) Vert 1.52~11, 4.32~51, 6.10~20 Tapezcidal Loads (pl) Vert 1.52~11, 4.32~51, 6.10~20 Tapezcidal Loads (pl) Vert 1.52~11, 4.32~61, 4.32~61, 6.10~20 Tapezcidal Loads (pl) Vert 4.33~50~00 Vert 4.33~50~00 5) Deat 4.775 Show (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (pl) Vert 1.31~61, 31.32~67, 4.32~40, 6-10~20 Tapezcidal Loads (pl) Vert 1.32~60, 4.32~27, 6-10~20 Trapezcidal Loads (pl) Vert 4.52~60~67 Vert 4.52~60~67 10 Bead + 5.000 (Unbal. Left): Lumber Increase=1.15 Uniform Loads (pl) Vert 4.52~60~50~31 10 Bead + 5.000 (Unbal. Left): Lumber Increase=1.15 Uniform Loads (pl) Vert 4.52~60~50~32 10 Bead + 5.000 (Unbal. Reft): Lumber Increase=1.15 Unform Loads (pl) Vert 4.52~60~50~31 20 Dead + 5.000 (Inbal. Reft): Lumber Increase=1.15 Unform Loads (pl) Vert 4.53~50.000 (Inbal. PR)? Unber Increase=1.15 Unform Loads (pl) </td <td>Mid America Truss, Je</td> <td>Ifferson City, MO - 65101,</td> <td></td> <td>٤ ID:FqERapFm</td> <td>.430 s Aug I8k6Mqruyn</td> <td>Dob Reference (optional) 16 2021 MiTek Industries, Inc. nui65z94fdiW1Lzwytt?oA0P4</td> <td>Development Services Departr Mon May 23 17: 17: 24 2021 Page 20 kySVE7z1IVu?8R8gDknMU2DVnn 06/23/2022</td> <td>nent</td>	Mid America Truss, Je	Ifferson City, MO - 65101,		٤ ID:FqERapFm	.430 s Aug I8k6Mqruyn	Dob Reference (optional) 16 2021 MiTek Industries, Inc. nui65z94fdiW1Lzwytt?oA0P4	Development Services Departr Mon May 23 17: 17: 24 2021 Page 20 kySVE7z1IVu?8R8gDknMU2DVnn 06/23/2022	nent
 (4) Dead + 0.75 Show (bialanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (pl) Vert. 4:a-34-65-5a-103 (5) Dead + 0.75 Show (bial.Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (pl) Vert. 4:a-34-65-a-103 (6) Dead + 0.75 Show (bial.Left): Lumber Increase=1.15, Plate Increase=1.15 (1) Uniform Loads (pl) Vert. 4:a-48-65-a-103 (7) Dead + 0.75 Show (bial.Left): Lumber Increase=1.15, Plate Increase=1.15 (1) Uniform Loads (pl) Vert. 4:a-48-65-a-103 (7) Dead + 0.75 Show (bial.Left): Lumber Increase=1.15, Plate Increase=1.15 (1) Uniform Loads (pl) Vert. 4:a-48-65-a-67 (2) Dead + 0.75 Show (bial.Left): Lumber Increase=1.15, Plate Increase=1.15 (1) Uniform Loads (pl) Vert. 4:a-74-65-a-67 (2) Dead + 0.75 Show (bial.Left): Lumber Increase=1.15, Plate Increase=1.15 (1) Uniform Loads (pl) Vert. 4:a-58+0:5-a-138 (2) Dead + 5.75 Show (bial.Right): Lumber Increase=1.15, Plate Increase=1.15 (1) Uniform Loads (pl) Vert. 4:a-58+0:5-a-138 (2) Dead + 5.75 Show (bial.Right): Lumber Increase=1.15, Plate Increase=1.15 (1) Uniform Loads (pl) Vert. 4:a-58+0:5-a-138 (2) Dead + 5.75 Show (bial.A: Right): Lumber Increase=1.15, Plate Increase=1.33, Plate Increase=1.33 (1) Uniform Loads (pl) Vert. 4:a-58+0:5-a-109 (2) Dead + 5.75 Show (bial.) + 0.75(0.6 MW/RR Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33 (1) Uniform Loads (pl) Vert. 1:32=-64, 4:32=-31, 6:10=-20 Hor:: 10:28=16, 1:5=12, 5:6=15, 5:11=-38 (1) Trapezoidal Loads (pl) (2) Dead + 0.75 Show (bial.) + 0.75(0.6 MW/RR Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33 (2) Dead + 0.75 Show (bial.) + 0.75(0.6 MW/RR Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33 (2) Dead + 0.75 Show (bial.) + 0.75(0.6 MW/RR Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33 (2) Dead + 0.75	LOAD CASE(S) Standard 1) Dead + Snow (balanced Uniform Loads (plf) Vert: 1-32=-71, Trapezoidal Loads (plf) Vert: 4=-51-to-	j j): Lumber Increase=1.15, 4-32=-51, 6-10=-20 5=-131	Plate Increase=1.15					
 (5) Dead + 0.75 Show (Unball Lett); Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (pl) Vert: 43=49-45-5-109 Vert: 4-49-40-5-5-109 Uniform Loads (pl) Vert: 4-49-40-5-5-109 Uniform Loads (pl) Vert: 4-27-to-5-87 (21) Dead + 5.75 Show (Unball Lett); Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (pl) Vert: 4-27-to-5-87 (22) Dead + 5.70 w (Unball Lett); Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (pl) Vert: 4-27-to-5-87 (22) Dead + 5.70 w (Unball Lett); Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (pl) Vert: 4-27-to-5-87 (22) Dead + 5.70 w (Unball Lett); Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (pl) Vert: 4-29-to-5-138 (22) Dead + 5.70 w (Unball Lett); Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (pl) Vert: 4-29-to-5-109 (24) Dead + 0.75 Show (Unball Kett); Lumber Increase=1.15, Plate Increase=1.33, Plate Increase=1.33 (24) Dead + 0.75 Show (Unball Kett); Lumber Increase=1.15, Plate Increase=1.33, Plate Increase=1.33 (24) Dead + 0.75 Show (Unball Kett); Lumber Increase=1.33, Plate Increase=1.33 (24) Dead + 0.75 Show (Unball Kett); Lumber Increase=1.33, Plate Increase=1.33 (25) Dead + 0.75 Show (Unball Kett); Lumber Increase=1.33, Plate Increase=1.33 (26) Dead + 0.75 Show (Unball + 0.75(0.6 MWFRS Wind (Neg. Int) Right); Lumber Increase=1.33, Plate Increase=1.33 (27) Dead + 0.75 Show (Unball + 0.75(0.6 MWFRS Wind (Neg. Int) Right); Lumber Increase=1.33, Plate Increase=1.33 (28) Dead + 0.75 Show (Unball + 0.75(0.6 MWFRS Wind (Neg. Int) Right); Lumber Increase=1.33, Plate Increase=1.33 (29) Dead + 0.75 Show (Unball + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); Lumber Increase=1.33, Plate Increase=1.33 (20) Dead + 0.75 Show (Dall + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel); Lumber Increase=1.33, Plate Increase=1.33 (21) Dead + 0.75 Show (Dall + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel); Lumber In	4) Dead + 0.75 Snow (bala Uniform Loads (plf) Vert: 1-32=-61, Trapezoidal Loads (plf)	anced): Lumber Increase=1 4-32=-43, 6-10=-20	1.15, Plate Increase=1.15					
 6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (pl) Vert: 4-274o-5=-87 21) Dead + 5now (Unbal. Icit): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (pl) Vert: 1-31=-71, 31-32=-78, 4-32=-58, 6-10=-20 Trapezoidal Loads (pl) Vert: 1-32=-71, 31-32=-78, 4-32=-58, 6-10=-20 Trapezoidal Loads (pl) Vert: 1-32=-73, 4-32=-29, 6-10=-20 Trapezoidal Loads (pl) Vert: 1-32=-74, 4-32=-29, 6-10=-20 Horz: 10-29=-10, 6-109 Vert: 1-32=-76, 4-32=-31, 6-10=-20 Horz: 10-29=-10, 15-012, 5-65, 5-11=38 Trapezoidal Loads (pl) Vert: 1-32=-60, 4-32=-31, 6-10=-20 Horz: 10-29=4, 1-5=-12, 5-65, 5-11=38 Trapezoidal Loads (pl) Vert: 1-32=-60, 4-32=-31, 6-10=-20 Horz: 10-29=4, 1-5=-12, 5-6=5, 5-11=38 Trapezoidal Loads (pl) Vert: 1-32=-60, 4-32=-31, 6-10=-20 Horz: 10-29=4, 1-5=-12, 5-6=-5, 5-11=38 Trapezoidal Loads (pl) Vert: 1-32=-60, 4-32=-38, 6-10=-20 Horz: 10-29=4, 1-5=-12, 5-6=-5, 5-11=38 Trapezoidal Loads (pl) Vert: 1-32=-60, 4-32=-38, 6-10=-20 Horz: 10-29=5, 1-5=-5, 5-6=-18, 5-11=-38 Trapezoidal Loads (pl) Vert: 1-32=-60, 4-32=-38, 6-10=-20 Horz: 10-29=6, 4-32=-39, 6-10=-20 Horz: 10-29=7, 1-2, 5-6=-5, 5-11=26 Trapezoidal Loads (pl) Vert: 1-32=-67, 4-32=-31, 6-10=-20 Horz: 10-29=1, 1-5=-12, 5-6=-5, 5-11=25 Trapezoidal Loads (pl) Vert: 1-32=-65, 4-32=-38, 6-10=-20 Horz: 10-29=-4, 1-5=-12, 5-6=-5, 5-11=25 Trapezoidal Loads (pl) Vert: 1-32=-65, 4-32=-38, 6-10=-20 Horz: 10-29=-3, 1-5=-5-5	5) Dead + 0.75 Snow (Unt Uniform Loads (plf) Vert: 1-31=-61, Trapezoidal Loads (plf) Vert: 4=-49-to-	31-32=-67, 4-32=-49, 6-1(5=-109	=1.15, Plate Increase=1.15 0=-20					
 21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (pl) Vert: 1-31=-71, 31-32=-78, 4-32=-58, 6-10=-20 Trapezoidal Loads (pl) Vert: 4-58+to-5=-138 22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (pl) Vert: 4-32+43, 4-32=-29, 6-10=-20 Trapezoidal Loads (pl) Vert: 4-32+o1o5=-109 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (pl) Vert: 4-32+0.63=-10, 4-32=-31, 6-10=-20 Horz: 10-29=1, 81, 15=-12, 5-6=5, 5-11=38 7 Trapezoidal Loads (pl) Vert: 4-32-60, 4-32=-31, 6-10=-20 Horz: 10-29=5, 1.5=-5, 5-6=-18, 5-11=38 7 Trapezoidal Loads (pl) Vert: 1-32=-56, 4-32=-38, 6-10=-20 Horz: 10-29=-5, 1.5=-5, 5-6=-18, 5-11=-38 7 Trapezoidal Loads (pl) Vert: 4-324-05=-91 25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (pl) Vert: 4-324-05=-98 26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (pl) Vert: 4-324-05=-98 26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (pl) Vert: 4-324-05=-98 27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (pl) Vert: 4-314-05=-91 27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (pl) Vert: 4-324-05, 4-32=-31, 6-10=-20 Horz: 10-294-1, 1.5=-12, 5-6=3, 5-11=25 77 Trapezoidal Loads (pl) Vert: 4-324-05, 4-32=-38, 6-10=-20 Horz: 10-294-1, 1.5=-65, 5-6=-14, 5-11=25 77 Trapezoidal Loads (pl) Vert: 4-324-05, 5-43=-38, 6-10=-20 Horz: 10-294-1, 1.5=-65, 5-6=-14, 5-11=25 77 Trapezoidal Loads (pl) 	6) Dead + 0.75 Snow (Unb Uniform Loads (plf) Vert: 1-32=-40, Trapezoidal Loads (plf) Vert: 4=-27-to-:	≀al. Right): Lumber Increas 4-32=-27, 6-10=-20 5=-87	e=1.15, Plate Increase=1.15					
 22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-32=-43, 4-32=-29, 6-10=-20 Trapezoidal Loads (plf) Vert: 4-29-40-55=-109 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 1-32=-60, 4-32=-31, 6-10=-20 Horz: 10-29=18, 1-55=-12, 5-6=5, 5-11=38 Trapezoidal Loads (plf) Vert: 4-31-t0-55=-91 25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 1-32=-58, 4-32=-38, 6-10=-20 Horz: 10-29=-5, 1-55=-5, 5-6=18, 5-11=-38 Trapezoidal Loads (plf) Vert: 4-32-65, 4-52=-98 26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 1-32=-58, 4-32=-31, 6-10=-20 Horz: 10-29=-14, 1-5=-98 26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 1-32=-57, 4-32=-31, 6-10=-20 Horz: 10-29=-14, 1-5=-12, 5-6=3, 5-11=25 Trapezoidal Loads (plf) Vert: 4-3-11-05=-91 27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33 Vinform Loads (plf) Vert: 4-3-11-05=-91 27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33 Vinform Loads (plf) Vert: 1-32=-65, 4-32=-38, 6-10=-20 Horz: 10-29=-3, 1-5==-5, 5-6=-14, 5-11=25 Trapezoidal Loads (plf) Vert: 1-32=-65, 4-32=-38, 6-10=-20 Horz: 10-29=-3, 1-5==-5, 5-6=-14, 5-11=25 Trapezoidal Loads (plf) Vert: 1-32=-65, 4-32=-38, 6-10=-20 Horz: 10-29=-3, 1-5==-5,	21) Dead + Snow (Unbal. Uniform Loads (plf) Vert: 1-31=-7 Trapezoidal Loads (plf Vert: 4=-58-tc	Left): Lumber Increase=1.1 1, 31-32=-78, 4-32=-58, 6-) -5=-138	15, Plate Increase=1.15 10=-20					
Vert: 4=-29-to-5=-109 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 1-32=-60, 4-32=-31, 6-10=-20 Horz: 10-29=18, 1-5=-12, 5-6=5, 5-11=38 Trapezoidal Loads (plf) Vert: 4=-31+to-5=-91 25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 1-32=-58, 4-32=-38, 6-10=-20 Horz: 10-29=-5, 1-5=-5, 5-6=-18, 5-11=-38 Trapezoidal Loads (plf) Vert: 4=-38+to-5=-98 26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 1-32=-57, 4-32=-31, 6-10=-20 Horz: 10-29=-54, 1-5=-93 26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 1-32=-57, 4-32=-31, 6-10=-20 Horz: 10-29=14, 1-5=-12, 5-6=3, 5-11=25 Trapezoidal Loads (plf) Vert: 4=-31+to-5=-91 27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33 Viniform Loads (plf) Vert: 1-32=-65, 4-32=-38, 6-10=-20 <	22) Dead + Snow (Unbal. Uniform Loads (plf) Vert: 1-32=-4: Trapezoidal Loads (plf	Right): Lumber Increase=1 3, 4-32=-29, 6-10=-20	.15, Plate Increase=1.15					
Trapezoidal Loads (plf) Vert: 4=-31-to-5=-91 25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 1-32=-58, 4-32=-38, 6-10=-20 Horz: 10-29=-5, 1-5=-5, 5-6=-18, 5-11=-38 Trapezoidal Loads (plf) Vert: 438-to-5=-98 26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 1-32=-57, 4-32=-31, 6-10=-20 Horz: 10-29=-41, 1-5=-12, 5-6=3, 5-11=25 Trapezoidal Loads (plf) Vert: 431-to-5=-91 27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 431-to-5=-91 27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 1-32=-65, 4-32=-38, 6-10=-20 Horz: 10-29=-3, 1-5=-5, 5-6=-14, 5-11=25 Trapezoidal Loads (plf) Vert: 1-32=-65, 4-32=-38, 6-10=-20 Horz: 10-29=-3, 1-5=-5, 5-6=-14, 5-11=25 Trapezoidal Loads (plf) Vert: 1-32=-65, 4-32=-38, 6-10=-20 Horz: 10-29=-3, 1-5=-5, 5-6=-14, 5-11=25 </td <td>Vert: 4=-29-to 24) Dead + 0.75 Snow (ba Uniform Loads (plf) Vert: 1-32=-6/</td> <td>-5=-109 II.) + 0.75(0.6 MWFRS Win 0, 4-32=-31, 6-10=-20 19.4-5 - 42.5 - 5 - 5 - 44 - 2</td> <td>d (Neg. Int) Left): Lumber Increase=1.</td> <td>33, Plate Increase=</td> <td>1.33</td> <td></td> <td></td> <td></td>	Vert: 4=-29-to 24) Dead + 0.75 Snow (ba Uniform Loads (plf) Vert: 1-32=-6/	-5=-109 II.) + 0.75(0.6 MWFRS Win 0, 4-32=-31, 6-10=-20 19.4-5 - 42.5 - 5 - 5 - 44 - 2	d (Neg. Int) Left): Lumber Increase=1.	33, Plate Increase=	1.33			
 Vinitian Loads (pii) Vert: 1-32=-58, 4-32=-38, 6-10=-20 Horz: 10-29=-5, 1-5=-5, 5-6=-18, 5-11=-38 Trapezoidal Loads (plf) Vert: 4=-38-to-5=-98 26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 1-32=-57, 4-32=-31, 6-10=-20 Horz: 10-29=14, 1-5=-12, 5-6=3, 5-11=25 Trapezoidal Loads (plf) Vert: 4=-31-to-5=-91 27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 1-32=-65, 4-32=-38, 6-10=-20 Horz: 10-29=-3, 1-5=-5, 5-6=-14, 5-11=25 Trapezoidal Loads (plf) Vert: 1-32=-65, 4-32=-38, 6-10=-20 Horz: 10-29=-3, 1-5=-5, 5-6=-14, 5-11=25 Trapezoidal Loads (plf) 	Trapezoidal Loads (plf Vert: 4=-31-to 25) Dead + 0.75 Snow (ba	io, 1-5=-12, 5-6=5, 5-11=3) i-5=-91 il.) + 0.75(0.6 MWFRS Win	o nd (Neg. Int) Right): Lumber Increase=	1.33, Plate Increase	=1.33			
 Velt: 4=-36-0-52-98 26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 1-32=-57, 4-32=-31, 6-10=-20 Horz: 10-29=14, 1-5=-12, 5-6=3, 5-11=25 Trapezoidal Loads (plf) Vert: 4=-31-to-5=-91 27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 1-32=-65, 4-32=-38, 6-10=-20 Horz: 10-29=-3, 1-5=-5, 5-6=-14, 5-11=25 Trapezoidal Loads (plf) 	Vert: 1-32=-58 Horz: 10-29=- Trapezoidal Loads (plf)	3, 4-32=-38, 6-10=-20 -5, 1-5=-5, 5-6=-18, 5-11=-;) 5 = 00	38					
Vert: 4=-31-to-5=-91 27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (plf) Vert: 1-32=-65, 4-32=-38, 6-10=-20 Horz: 10-29=-3, 1-5=-5, 5-6=-14, 5-11=25 Trapezoidal Loads (plf)	26) Dead + 0.75 Snow (ba Uniform Loads (plf) Vert: 1-32=-5 Horz: 10-29=' Trapezoidal Loads (plf)	-ɔ=-98 I.) + 0.75(0.6 MWFRS Win 7, 4-32=-31, 6-10=-20 14, 1-5=-12, 5-6=3, 5-11=2 7)	nd (Neg. Int) 1st Parallel): Lumber Incre	ease=1.33, Plate Inc	rease=1.33	3		
	Vert: 4=-31-to 27) Dead + 0.75 Snow (ba Uniform Loads (plf) Vert: 1-32=-6 Horz: 10-29=- Trapezoidal Loads (plf)	-5=-91 I.) + 0.75(0.6 MWFRS Win 5, 4-32=-38, 6-10=-20 -3, 1-5=-5, 5-6=-14, 5-11=2	nd (Neg. Int) 2nd Parallel): Lumber Incr 25	ease=1.33, Plate In	crease=1.3	3		
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-32=-83, 4-32=-60, 6-10=-20 Trapezoidal Loads (plf)	32) Dead + Minimum Snov Uniform Loads (plf) Vert: 1-32=-8; Trapezoidal Loads (plf	-5=-90 w: Lumber Increase=1.15, 3, 4-32=-60, 6-10=-20) -5=-140	Plate Increase=1.15					







Symbols

PLATE LOCATION AND ORIENTATION



maasiry or	
ANSI/TPI1:	National Design Specification for Metal
	Plate Connected Wood Truss Construction
DSB-89:	Design Standard for Bracing.
BCSI:	Building Component Safety Information,
	Guide to Good Practice for Handling,
	Installing & Bracing of Metal Plate
	Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

CONSTRUCTION As Noted on Plans Review General Safety Notes Development Services Department

Lee's Summit, Missouri

RELEASED FOR

Failure to Follow Could Cause Property/23/2022 Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- 2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- 3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other.
- 6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- 8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- 9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- 16. Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

21. The design does not take into account any dynamic or other loads other than those expressly stated.