

RE:	241089-A
	Clayton Builder-P240989-Lot 209- 2750 SW

Site Information:

Customer:Premier Building SupplyProject Name:241089-ALot/Block:209Model:Address:2750 SW 11th TerrSubdivision:City:Lee's SummitState:MO

MiTek, Inc. 400 Sunrise Ave., Suite 270 Roseville, CA 95661 916.755.3571

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

11th Terr

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 Roof Load: 45.0 psf Design Program: MiTek 20/20 8.8 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 57 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Seal# R85979578 R85979579 R85979580 R85979581 R85979582 R85979583 R85979584 R85979585 R85979586 R85979587 R85979588 R85979588 R85979589 R85979590 R85979590 R85979591 R85979592 R85979593 R85979593 R85979594	Truss Name J4 H4 CG4 J5 J6 H1 TG2 J1 J2 J3 J8 J9 J11 J15 LG2 H2	Date 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024	No. 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	Seal# R85979598 R85979599 R85979600 R85979601 R85979602 R85979603 R85979604 R85979605 R85979605 R85979606 R85979607 R85979608 R85979609 R85979610 R85979611 R85979612 R85979613 R85979614	Truss Name LG1 A12 A11 A6 A7 A8 A10 A9 J13 CG2 J14 B1 J21 A1 A2 A3 A4	Date 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024 12/27/2024
16	R85979593	LG2	12/27/2024	36	R85979613	A3	12/27/2024
17	R85979594	H2	12/27/2024	37	R85979614	A4	12/27/2024
18	R85979595	H3	12/27/2024	38	R85979615	A5	12/27/2024
19	R85979596	CG6	12/27/2024	39	R85979616	CG3	12/27/2024
20	R85979597	HG1	12/27/2024	40	R85979617	J7	12/27/2024

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

based on the parameters provided by Direct Lumber of Colorado.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2025. Missouri COA: 001193

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





RE: 241089-A - Clayton Builder-P240989-Lot 209- 2750 SW 11th Terr

MiTek, Inc. 400 Sunrise Ave., Suite 270 Roseville, CA 95661 916.755.3571

Site Information:

Project Customer:Premier Building SupplyProject Name:241089-ALot/Block:209Subdivision:Address:2750 SW 11th TerrCity, County:Lee's SummitState:MO

No.	Seal#	Truss Name	Date
41	R85979618	J10	12/27/2024
42	R85979619	J12	12/27/2024
43	R85979620	LG6	12/27/2024
44	R85979621	A16	12/27/2024
45	R85979622	A15	12/27/2024
46	R85979623	A14	12/27/2024
47	R85979624	A13	12/27/2024
48	R85979625	CG1	12/27/2024
49	R85979626	J16	12/27/2024
50	R85979627	J17	12/27/2024
51	R85979628	J18	12/27/2024
52	R85979629	LG7	12/27/2024
53	R85979630	LG5	12/27/2024
54	R85979631	LG4	12/27/2024
55	R85979632	CG5	12/27/2024
56	R85979633	J19	12/27/2024
57	R85979634	J20	12/27/2024

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J4	Jack-Closed	3	1	Job Reference (optional	R85979578 LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Denv	er, CO - 80221,	Run: 8.83 S Dec 4 2 ID:v0F888O3WtPtKyl	2024 Print: 8 Dp5Xbz8dzi	.830 S Dec Zls3-RfC?Ps	4 2024 MiTek Industries, Inc. F B70Hq3NSgPqnL8w3uITXbGK	Dec 27 124654/07/2925 VrCDoi7542JO?f
		5-7-	-8			
		5-7-	-8			
		12 4 Г	2		2x4 II	
	T	3x4 =		5	, P	
	2-6-8	2				
		X				
		3x4 II			2x4 u	

Scale = 1:29

Plate Offsets (X, Y): [1:0-1-8,0-5-5]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.61	Vert(LL)	-0.05	1-4	>999	240	MT20	169/123
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.11	1-4	>608	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%

5-7-8

LUMBER

TOP CHORD	2x4 SPF I	No.2
BOT CHORD	2x4 SPF I	No.2
WEBS	2x4 SPF I	No.2
SLIDER	Left 2x4 V	VW Stud 2-10-0
BRACING		
TOP CHORD	Structura	wood sheathing directly applied or
	5-7-8 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	1=0-3-8, 4= Mechanical
	Max Horiz	1=104 (LC 11)
	Max Uplift	1=-45 (LC 8), 4=-64 (LC 12)
	Max Grav	1=247 (LC 1), 4=247 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	·
TOP CHORD	1-3=-133/	/92, 3-4=-240/261
BOT CHORD	1-4=-45/4	9
NOTES		

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft;
- Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 5-5-12 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Bearings are assumed to be: Joint 1 SPF No.2 .
- Refer to girder(s) for truss to truss connections. 4)
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1 and 64 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



December 27,2024



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P240	AS NOTED FOR PLAN REVIEW 989-Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	H4	Hip Girder	1	2	Job Reference (option	R85979579 ali LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Denv	er, CO - 80221,	Run: 8.83 S Dec 4 20 ID:91pJOUCQI3LYjBG	024 Print: 8.83 Gryx5FKIzWQ	30 S Dec 42 KQ-RfC?Psl	2024 MiTek Industries, Inc 370Hq3NSgPqnL8w3uITX	F Dec 27 12 4053/07/2025
	F	5-3-0 9-8-14	10-11-2	15-5-0	20-8-	21-6-8
	F	5-5-0 4-5-14	1-2-4 20-8-0	4-0-14	5-5-6	, 0-10-8
			4x4=			
, , , , , , , , , , , , , , , , , , ,	1 	4^{12} $4x4 = 2$ $4x4 =$	3x6 = 4 4 1 109 6 = 8x14 = 324		3x4 ± 5 14 15 8 3x6 II	6 7 4x10=

	5-3-0	9-7-2	11-0-14	15-5-0	20-8-0	
Scale = 1:51	5-3-0	4-4-2	1-5-12	4-4-2	5-3-0	

Plate Offsets (X, Y): [10:0-7-0,0-6-0]

(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
25.0	Plate Grip DOL	1.15		TC	0.45	Vert(LL)	-0.09	11-12	>999	240	MT20	197/144	
10.0	Lumber DOL	1.15		BC	0.43	Vert(CT)	-0.15	11-12	>999	180	-		
0.0	Rep Stress Incr	NO		WB	0.25	Horz(CT)	0.03	6	n/a	n/a			
10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 197 lb	FT = 20%	
		0)						-				1 0 00	
		3)	Unbalanced	roof live loads have	e been (considered fo	r	•	Vert: 1-	3=-70,	3-4=-70, 4-7=-70	, 1-6=-20	
2x4 SPF No.2		4)		7 16. Vult 115mpk	h (2 aac	and quat)		C	oncentra	ted Lo		47 4007 (D)	
2X8 SPF 1950F 1.7E		4)	Vasd-91mpt	TCDI -6 Opsf: BC		Inst h-35ft			10 22	=-221 7 (D) 1	(B), 10=-150 (B),	17=-1007 (B),	
2X4 SPF N0.2			Ke=1 00: Ca	t II: Exp C: Enclose	ed MW	FRS (envelor	ne)		10=-221	(Б), Т	9=-227 (D)		
	athing directly opplie		exterior zone	and C-C Exterior(2	2E) 0-1	-12 to 5-3-0.	,						
	aming directly applie	a or	Interior (1) 5-	3-0 to 9-8-14, Exte	rior(2E	9-8-14 to							
2-0-0 oc purlins, exc	epi -0 max): 3-4		10-11-2, Éxte	erior(2R) 10-11-2 to	5 18 [`] -0-0), Interior (1)							
Rigid ceiling directly	applied or 10-0-0 oc		18-0-0 to 21-	6-8 zone; cantileve	er left ar	nd right expos	sed ;						
bracing.			end vertical l	eft and right expose	ed;C-C	for members	and						
(size) 1=0-3-8 6	-0-3-8		forces & MW	FRS for reactions s	shown;	Lumber							
Max Horiz 1=-67 (LC	17)	_`	DOL=1.60 pl	ate grip DOL=1.60									
Max Uplift 1=-677 (L0	C 8), 6=-371 (LC 9)	5)	Provide adec	luate drainage to p	revent	water ponding	j .						
Max Grav 1=2819 (L	.C 1), 6=1584 (LC 1)	6)	This truss ha	s been designed to	ora 10.0 vith anv) pst bottom	de						
(lb) - Maximum Com	pression/Maximum	7)	All bearings	are assumed to be	SPF 19	00161 117E 102	us.						
Tension		8)	Provide mecl	hanical connection	(by oth	ers) of truss t	0						
1-2=-6039/1711, 2-3	=-3530/1051,	,	bearing plate	capable of withsta	inding 6	77 Ib uplift at	joint						
3-4=-3064/965, 4-5=	-3305/991,		1 and 371 lb	uplift at joint 6.		•							
5-6=-3497/1024, 6-7	=0/6	9)	This truss is	designed in accord	lance w	ith the 2018							
1-12=-1532/5595, 11	-12=-1532/5595,		International	Residential Code s	sections	R502.11.1 a	nd						
9-11=-824/3254, 8-9	=-900/3204,		R802.10.2 ar	nd referenced stand	dard AN	ISI/TPI 1.							
0-8=-900/3204 3-11356/1373 3-0	668/204	10) Graphical pu	rlin representation	does no	of depict the s	size						
4-9=-224/810 2-11=	-2550/772		bottom chord	alion of the punin al	iong the	e top and/or					000	TO	
5-9=-243/277. 2-12=	-403/1780, 5-8=-62/ ²	105 11	Lise MiTek II	ı. ∐S24 (With 4₌10d r	nails int	o Girder & 2-	10d				OF M	Alson	
,	,	- 11	nails into Tru	ss) or equivalent st	paced a	at 4-0-12 oc m	nax.			1	TIE	10.V	
s to be connected toget	her with 10d		starting at 2-	0-0 from the left en	d to 9-6	-5 to connect	t			A	NY accord	Ner	
") nails as follows:			truss(es) to b	ack face of bottom	chord.					A	s/ scori	M. YAY	۱.
ds connected as follows	: 2x4 - 1 row at 0-9-0) 12) Fill all nail ho	les where hanger is	s in cor	tact with lum	ber.			B.	/ SEVI		3
		13) Hanger(s) or	other connection d	levice(s) shall be				1	1		2
nords connected as follo	ows: 2x8 - 2 rows		provided suff	icient to support co	oncentra	ated load(s) 1	667			NV.	# .	X a alla	4
d at 0-5-0 oc.			Ib down and	466 lb up at 4-0-13	3 on bo	ttom chord. 1	he			SA C	but	- MAN	
nected as follows: 2x4 -	1 row at 0-9-0 oc.		design/select	tion of such connect	ction de	vice(s) is the				17	PE-20010	18807 188	1
are considered equally a	applied to all plies,	<u>م</u> ه	responsibility	or others.						N	11-2001	128	
	(psf) 25.0 10.0 0.0 10.0 2x4 SPF No.2 2x8 SPF 1950F 1.7E 2x4 SPF No.2 Structural wood shea 4-8-1 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. (size) 1=0-3-8, 6 Max Horiz 1=-67 (LC Max Uplift 1=-677 (LI Max Grav 1=2819 (L (lb) - Maximum Com Tension 1-2=-6039/1711, 2-3 3-4=-3064/965, 4-5= 5-6=-3497/1024, 6-7 1-12=-1532/5595, 11 9-11=-824/3254, 8-9 6-8=-900/3204 3-11=-356/1373, 3-9 4-9=-224/810, 2-11= 5-9=-243/277, 2-12= s to be connected toget ") nails as follows: ds connected as follows: brords connected as follows: 2x4 - are considered equally 2x50 - 200	$\begin{array}{c c} (psf) \\ 25.0 \\ 10.0 \\ 10.0 \\ 0.0 \\ 0.0 \\ 10.0 \\ 0.0 \\ 10$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(psf) 25.0 Spacing Plate Grip DOL 1.15 2-0-0 Plate Grip DOL 1.15 10.0 Lumber DOL 1.15 1.15 0.0 Rep Stress Incr Rep Stress Incr NO CodeNO $2x4$ SPF No.23)Unbalanced this design. $2x4$ SPF No.24)Wind: ASCE Vasd=91mpt Ke=1.00; Car exterior zone Interior (1) 5- $2-0-0$ oc purlins, except $2-0-0$ oc purlins (6-0-0 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.4)Wind: ASCE vasd=91mpt Ke=1.00; Car exterior zone Interior (1) 5- $10-11-2$, Ext $10-11-2$, Ext $10-0-0$ oc bracing.3)Unbalanced this design.(size)1=0-3-8, 6=0-3-8 Max Horiz $1=-677$ (LC 17)4)Wind: ASCE Vasd=91mpt Ke=1.00; Car exterior zone brock aded of 21- end vertical I forces & MW DOL=1.60 p1 forces & MW DOL=1.60 p1 Solution to 21- end vertical I forces & MW DOL=1.60 p1 Solution to 21- end vertical I forces & MW DOL=1.60 p1(b) - Maximum Compression/Maximum Tension $1-2=-6039/1711, 2-3=-3530/1051,$ $5-6=-3497/1024, 6-7=0/6$ $1-1=-824/3254, 8-9=-900/3204,$ $6-8=-900/3204,$ $6-8=-900/3204,$ $6-8=-900/3204,$ $6-8=-900/3204,$ $6-8=-900/3204,$ $6-8=-900/3204,$ $1-1=-2550/772,$ $5-9=-243/277, 2-12=-403/1780, 5-8=-62/105,$ $11) Use MiTek J10 Graphical puor the orientalbottom choro12 Fill all nail h013 Hanger(s) orprovided sufflb down anddesign/selectresponsibilitylb down anddesign/selectresponsibility$	(psf) 25.0 10.0 Spacing Plate Grip DOL 1.15 CSI TC TC TC TC TC 10.0 Rep Stress Incr Rep Stress Incr CodeNOWB $2x4$ SPF No.2Matrix-S3)Unbalanced roof live loads have this design. $2x4$ SPF No.2 $2x4$ SPF No.23)Unbalanced roof live loads have this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have this design. $2x4$ SPF No.2 3 3 $2x4$ SPF No.2 3 3 $3x4$ serior zone primins, except 4 $2-00$ oc purins (6-0-0 max.): $3-4$. 3 $(ib) - Maximum Compression/MaximumTension1-12=-1532/595, 11-12=-1532/595, 11-12=-1532/595, 9-11-22=403/1780, 5-8=-62/1051-12=-6039/1711, 2-3=-3530/1051, -3=-243/2274, 2-12=-403/1780, 5-8=-62/10511-2=-6039/1711, 2-3=-3530/1051, -3=-243/2274, 2-12=-403/1780, 5-8=-62/10511-2=-6039/1711, 2-3=-3530/1051, -3=-243/2274, 2-12=-403/1780, 5-8=-62/10511-2=-6039/1711, 2-3=-3530/1051, -3=-243/2274, 2-12=-403/1780, 5-8=-62/10511-1=-326/1373, 3-9=-668/204, -3=-9=-900/320413 to be connected together with 10d") nails as follows: 2x4 - 1 row at 0-9-013 to be connected as follows: 2$	(psf) 25.0 10.0 Spacing Plate Grip DOL 1.15 20.0 CSI TC C 10.0 Lumber DOL Rep Stress Incr 10.0 1.15 BC C 0.43 WB 0.25 $2x4$ SPF No.2 3 Unbalanced roof live loads have been this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have been this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have been this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have been this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have been this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have been this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have been this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have been this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have been this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have been this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have been this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have been this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have been this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have been this design. $2x4$ SPF No.2 3 Unbalanced roof live loads have been the stress retrier the operation design 3 $1-0.2$ 3 3 $1-0.2$ 3 3 $1-0.7$ 3	(psf) 25.0 10.0 Spacing Plate Grip DOL 1.15 CSi TC C DEFL Vert(LL) Vert(CT) Horz(CT) 0.0 0.0 Rep Stress Incr ROSNO WB 0.25 0.25 $2x4 SPF No.2$ 3)Unbalanced roof live loads have been considered for this design. $2x4 SPF No.2$ 3)Unbalanced roof live loads have been considered for this design. $2x4 SPF No.2$ 3)Unbalanced roof live loads have been considered for this design. $2x4 SPF No.2$ 3)Unbalanced roof live loads have been considered for this design. $2x4 SPF No.2$ 4)Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0pst; BCDL=6.0pst; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelop exterior 20ne and C-C Exterior(2E) 9-8-14 to 10-11-2; Exterior(2R) 10-11-2 to 18-0-0, Interior (1) 5-3-0 to 9-8-14, Exterior(2E) 9-8-14 to 10-11-2; Exterior(2R) 10-11-2 to 18-0-0, Interior (1) 5-3-0 to 9-8-14, Exterior(2E) 9-8-14 to 10-11-2; Exterior(2R) 10-11-2 to 18-0-0, Interior (1) 5-3-0 to 21-6-8 zone; cantilever left and right exposed; C-C for members forces & MWFRS for reactions shown; Lummer DDL=1.60 plate grip DDL=1.60(b) - Maximum Compression/Maximum Tension 1-2=-6039/1711, 2-3=-3530f/991, 5-6=-349/17024, 6-7=0/6 1-12=-550/772, 5-9=-243/277, 2-12=-403/1780, 5-8=-62/1055) Provide adequate drainage to pervent water ponding or the orientation of the purin along the top and/or bortom chord.7) All bearings are assumed to be SPF 1950F 1.7E. 9=-243/277, 2-12=-403/1780, 5-8=-62/1058) Frowide adequate drainage to prevent water ponding 11=-356/1373, 3-9=-668/204, -9=-2243/277, 2-12=-403/1780, 5-8=-62/1059) T	(psf) 25.0 10.0Spacing Plate Grip DOL 1.152-0-0 1.15CSI TC TC 0.43DEFL Vert(L1) -0.09 Vert(CT) 0.132.00 2.00 2.84 SPF No.2NO CodeIRC2018/TPI2014Matrix-S2.44 SPF No.23)Unbalanced roof live loads have been considered for this design.Matrix-S2.44 SPF No.23)Unbalanced roof live loads have been considered for this design.Matrix-S2.44 SPF No.23)Unbalanced roof live loads have been considered for this design.Matrix-S3)Unbalanced roof live loads have been considered for this design.Mini X-S2.44 SPF No.23)Unbalanced roof live loads have been considered for this design.Mini X-S3)Unbalanced roof live loads have been considered for this design.Mini X-S3)Unbalanced roof live loads have been considered for this design.Mini X-S3)Unbalanced roof live loads have been considered for this design.Mini X-S3)Unbalanced roof live loads have been considered for this design.Mini X-S3)Unbalanced roof live loads have been considered for this design.Mini X-S3)Unbalanced roof live loads have been considered for this design.Mini X-S4)Direct All Second gust Verticit2 9-1-12 to 5-30.Interior (1) 18-00 to 21-6-8 zone; cantilever left and right exposed (2-C for members and forces & MWFRS for reactions shown; Lumber DDL=1.601)Direct All Second gust Max Horiz 1=-67 (LC 17)Provide mechanical connection the yother is of the zon thar	(psf) 25.0Spacing Plate Grip DOL 1.152-0-0CSI TCDEFL vert(CT)in(loc) 910.0Lumber DOL 1.151.15TC0.43Vert(LL) -0.09 11-1210.0CodeIRC2018/TPI2014WB0.25Horz(CT) 0.15 11-122x4 SPF No.23)Unbalanced roof live loads have been considered for this design.Horz(CT) 0.03 62x4 SPF No.24)Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0pst; BCDL=6.0pst; BCDL=6.0	(psf) 25.0Spacing Plate Gip DOL Lumber DOL 0.01.15CSI TCDEFL vert(LT)in(toc) vert(LT)//deft2.00Rep Stress Incr CodeNO CodeRRC2018/TPI2014WB0.25Vert(CT)0.036 n/a 2.x4 SPF No.2	(pst) 25.0Spacing Plate Grip DOL 1.152-0-0CSI TC CDEFL vert(L1) -0.09(inc) vert(L1) -0.09(inc) 1.12 vert(L1) -9.03(inc) 1.12 vert(L1) -9.03(inc) vert(L1)<	(pst) 25.0 Plate Grip DDL 1.15Spacing 1.152-0-0 1.15CSI TC C 0.45DEFL vert(CT) vert(CT) 0.03in (00.0)PLATES MT2010.0CodeiRC2018/TPI2014Matrix-SWeit(CT) WB 0.250.036 n/a n/a 2x4 SPF No.2 2x4 SPF No.2T 2x4 SPF No.23)Unbalanced roof live loads have been considered for this design.3)Unbalanced roof live loads have been considered for this design.3)Unbalanced roof live loads have been considered for this design.3)Vert: 1-3=-70, 3-4=-70, 4-7=-70 Unbalanced roof live loads have been considered for this design.3)Unbalanced roof live loads have been considered for this design.Vert: 1-3=-70, 3-4=-70, 4-7=-70 Concentrated Loads (lb)2x4 SPF No.2 2x4 SPF No.23)Unbalanced roof live loads have been considered for this design.3)Unbalanced roof live loads have been considered for this design.Vert: 1-3=-70, 3-4=-70, 4-7=-70 Concentrated Loads (lb)2x4 SPF No.2 2x4 SPF No.21-0-3-8, 6=-0-3-8 Max Horiz 1=-67 (LC 17) Max Grav 1=2819 (LC 1), 6=1584 (LC 1) (lb).101-12-1532(55) 51-1-2=1532(55)101-12-1532(55) 51-12=-1532(55)11-12-1532(55) 51-12=-1532(55) 51-12=-1532(55) 51-12=-1532(55)11-12-1532(55) 51-12=-1532(55) 51-12=-1532(55) 51-12=-1532(55)11-12-1532(55) 51-12=-1532(55) 51-12=-1532(55) 51-12=-1532(55) 51-12=-1532(55) 51-12=-1532(55)11-12-1532(55) 51-12=-1532(55) 51-12=-1532(55) 51-12=-1532(55) 51-12=-1532(55) 51-12=-1532(55) 51-12=-1532(55) 51-12=-1532(55) 51-12=-1532(55) 51-12=-153	(psf) Spacing 2-0-0 CSI DEFL in (loc) i/def Ld PLATES GRIP 26.0 Lumber DoL 1.15 TC 0.43 Vert(L1) 0.05 11-12 >999 24.0 MT20 197/144 0.0 Rep Stress Incr NO Code Vert(L1) 0.05 16 n/a n/a No 2x4 SPF No.2 XSP FN0.2 Vasd-S1 FN0.67 Wink: ASCE 7-16; Vull=115mph (3-second gust) Vasd-S1 FN0.72 Vert: 13=-70, 34=-70, 4-7=-70, 1-6=-20 2x4 SPF No.2 Wink: ASCE 7-16; Vull=115mph (3-second gust) Vasd-S1 FN0.72 Vert: 13=-70, 34=-70, 4-7=-70, 1-6=-20 Concentrated Loads (lb) Vert: 13=-70, 34=-70, 4-7=-70, 1-6=-20 Structural wood sheating directly applied or 1-0-0 oc bracing. Wink: ASCE 7-16; Vull=115mph (3-second gust) Vasd-S1 FN0.2 Vert: 13=-70, 34=-70, 4-7=-70, 1-6=-20 Concentrated Loads (lb) Vert: 13=-70, 34=-70, 4-7=-70, 1-6=-20 Structural wood sheating directly applied or 1-0-0 oc bracing. Wink: ASCE 7-16; Vull=115mpl (14) Vert: 11=-70, 24=-70, 4-7=-70, 1-6=-20 Concentrated Loads (lb) Vert: 13=-70, 34=-70, 4-7=-70, 1-6=-20 Max Horiz 1=-67 (LC 7) Max Horiz 1=-67 (LC 7) Max Horiz 1=-67 (LC 7)

 All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

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PE-2001018807

December 27,2024

400 Sunrise Ave., Suite 270 Roseville, CA 95661 916.755.3571 / MITEk-US.com



Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.29 0.17 0.18	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.04 0.01	(loc) 7-8 7-8 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 40 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD	2x4 SPF No.2 2x6 SPF 1650F 1.5E 2x4 SPF No.2 Left 2x4 SPF No.2 Structural wood shea 5-2-3 oc purlins, exo 2-0-0 oc purlins (5-6	1-7-13 athing directly applic cept end verticals, a -11 max.): 4-6.	7) 8) ed or 9) nd	Provide mec bearing plate 7 and 195 lb This truss is International R802.10.2 a Graphical pu or the orienta bottom chorr	chanical connectii e capable of with uplift at joint 2. designed in acco Residential Cod nd referenced sta urlin representation ation of the purlir d.	on (by oth standing 1 ordance w le sections andard AN on does no along the	ers) of truss = 84 lb uplift a th the 2018 R502.11.1 a ISI/TPI 1. tot depict the s top and/or	to t joint and size					
BOT CHORD	Rigid ceiling directly bracing. (size) 2=0-3-8, 7 Max Horiz 2=67 (LC Max Uplift 2=-195 (LI Max Grav 2=669 (LC	applied or 10-0-0 or 7= Mechanical 9) C 8), 7=-184 (LC 8) C 1), 7=652 (LC 1)	c 10 1' 12	 10) Use Mi lek JUS24 (With 4-10d halls into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 6-0-0 from the left end to 8-0-0 to connect truss(es) to front face of bottom chord. 11) Fill all nail holes where hanger is in contact with lumber. 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated had(s) 87 lb. 									
Max Grav 2=669 (LC 1), 7=652 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-10/0, 2-4=-1235/488, 4-5=-1084/496, 5-6=-64/40, 6-7=-110/86 BOT CHORD 2-8=-491/1097, 7-8=-463/858 WEBS 4-8=0/230, 5-8=-36/274, 5-7=-927/496				down and 90 up at 6-0-0, top chord, ar bottom chorc device(s) is t 3) In the LOAD of the truss a	b) b) up at 3-11-4, and 64 lb down and and 227 lb down and d. The design/se the responsibility CASE(S) section are noted as from	, and 64 lb and 90 lb and 62 lb u election of of others. n, loads ap t (F) or ba	o down and 9 up at 8-0-0 c p at 3-11-4 such connec oplied to the ck (B).	0 lb on on tion face					
 NOTES Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C- C for members and forces & MWFRS for reactions 				of the truss are noted as front (F) or back (B). LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-4=-70, 4-6=-70, 2-7=-20 Concentrated Loads (lb) Vert: 4=-64 (F), 8=-227 (F), 10=-64 (F), 11=-64 (F), 12=-19 (F), 13=-19 (F)								MISSOURIER	

- shown; Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. 3)
- This truss has been designed for a 10.0 psf bottom 4)
- chord live load nonconcurrent with any other live loads.
- 5) Bearings are assumed to be: Joint 2 SPF 1650F 1.5E . 6) Refer to girder(s) for truss to truss connections.

THE SSIONAL December 27,2024

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NIMB

PE-200101880

C

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	CG4	Diagonal Hip Girder	1	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. F Dec 27 1246 51 07/2 10:25 ID:coUezWRZa6vloaWaKNfvITzZls?-RfC?PsB70Hq3NSgPqnL8w3uITXbGK vrCDoi79420?





Scale = 1:21.7

Plate Offsets (X, Y): [2:0-2-6,0-0-3]

		-											
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO		CSI TC BC WB	0.61 0.33 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.09 0.00	(loc) 2-5 2-5 5	l/defl >999 >673 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Left 2x4 WW Stud Structural wood she 5-5-5 oc purlins, ex Rigid ceiling directly bracing. (size) 2=0-4-9, 1 Max Horiz 2=69 (LC Max Uplift 2=-76 (LC Max Gray 2=282 (L	• 2-7-15 eathing directly applie cept end verticals. rapplied or 10-0-0 oc 5= Mechanical 9) 2 8), 5=-57 (LC 12) C 1), 5=236 (LC 1)	Hanger(s) or provided suf down and 66 up at 2-9-8 of lb down at 2 of such conn- others. In the LOAD of the truss a AD CASE(S) Dead + Roo Plate Increa Uniform Lo Vert: 1-4	r other connection of ficient to support co 5 lb up at 2-9-8, an on top chord, and 2 2-9-8 on bottom cho hection device(s) is 0 CASE(S) section, are noted as front (1 Standard of Live (balanced): ase=1.15 ads (lb/ft) =-70, 2-5=-20	device(s oncentra d 18 lb 2 lb dow ord. The the res loads a F) or ba) shall be ted load(s) 1 down and 66 n at 2-9-8, a e design/sele ponsibility of opplied to the l ck (B). Increase=1.	8 lb lb nd 2 ction face 15,						
FORCES	(lb) - Maximum Com Tension	npression/Maximum											
TOP CHORD BOT CHORD	1-2=-15/0, 2-4=-97/0 2-5=-33/36	60, 4-5=-183/230											
NOTES													
1) Wind: AS Vasd=91r Ke=1.00; exterior zc and right of C for men shown; Lu	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Corner (3 exposed ; end vertical nbers and forces & MV umber DOL=1.60 plate	a (3-second gust) CDL=6.0psf; h=35ft; d; MWFRS (envelop b) zone; cantilever lef left and right exposed VFRS for reactions grip DOL=1.60								Å	ATE OF M	AISSOL	

- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) Bearings are assumed to be: Joint 2 SPF No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 57 lb uplift at joint 5 and 76 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J5	Jack-Open	2	1	Job Reference (optional	R85979582 LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Denv	er, CO - 80221,	Run: 8.83 S Dec 4 2 ID:v0F888O3WtPtKyl	2024 Print: 8. Dp5Xbz8dzZ	830 S Dec 4 Is3-RfC?PsB	2024 MiTek Industries, Inc. F 70Hq3NSgPqnL8w3uITXbGK	I Dec 27 124654/07/249:25 VrCDoi7542JO?f

-0-5-0





1-3-10

					1-10-15	5							
Scale = 1:16.1						I							
Plate Offsets (X, Y): [2	:0-1-8,0-0-5]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	

Loading		(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15	тс	0.06	Vert(LL)	0.00	2-5	>999	240	MT20	169/123
TCDL		10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	2-5	>999	180		
BCLL		0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 20%
LUMBER				LOAD CASE(S)	Standard								
TOP CHORD	2x4 SPF N	No.2											
BOT CHORD	2x4 SPF N	No.2											
SLIDER	Left 2x4 V	VW Stud	1-5-8										
BRACING													
TOP CHORD	Structural	wood shea	athing directly applie	ed or									
	1-10-15 o	c purlins.											
BOT CHORD	Rigid ceili bracing.	ng directly	applied or 10-0-0 oc										
REACTIONS	(size)	2=0-3-8, 4	l= Mechanical, 5=										
		Mechanica	al										
	Max Horiz	2=35 (LC	12)										
	Max Uplift	2=-29 (LC	8), 4=-40 (LC 12)	~~									
	Max Grav	2=118 (LC	51), 4=63 (LC 1), 5=	-38									
500050		(LC 3)											
FORCES	(ID) - Maxi Tension	Imum Com	pression/iviaximum										
TOP CHORD	1-2=-14/0	2-4=-51/2	2										
BOT CHORD	2-5=0/0	, 0., _											
NOTES													
1) Wind: AS(CE 7-16: Vul	lt=115mph	(3-second gust)										
Vasd=91n	nph: TCDL=	6.0psf: BC	DL=6.0psf: h=35ft:										
Ke=1.00;	Cat. II; Exp (C; Enclose	d; MWFRS (envelop	e)									
exterior zo	one and C-C	Exterior(2	E) zone; cantilever l	eft								6 OF 1	ALL
and right e	exposed ; en	nd vertical l	eft and right expose	d;C-								FE OF I	VIISS W
C for mem	nbers and fo	rces & MW	FRS for reactions								4		N.S.
shown; Lu	umber DOL=	1.60 plate	grip DOL=1.60								A	SCOT	TM. VEN
2) This truce	has been d	ocianod for	a 10.0 pcf bottom								A	SEV	ER Y
chord live	load noncor	current wit	th any other live load	45							4 1	V.	0 +4
3) Bearings	are assumed	to be:lo	bint 2 SPF No.2								NX	1 +1	· NOAMAT
4) Refer to a	irder(s) for t	truss to trus	ss connections.								XY	brill.	
5) Provide m	nechanical co	onnection (by others) of truss to)							127	5 NUM	BER A
·											1 1	O V PH-2001	IIIXXII/ / DS M

5 bearing plate capable of withstanding 29 lb uplift at joint 2 and 40 lb uplift at joint 4.

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

400 Sunrise Ave., Suite 270 Roseville, CA 95661 916.755.3571 / MiTek-US.com

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J6	Jack-Open	3	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Den	(er CO - 80221	Run: 8.83 S. Dec. 4.2	024 Print: 8	830 S Dec. 4	2024 MiTek Industries Inc. F	

er of Colorado, Denver, CO - 80

ID:58PIRvWyxFoJ8fZwELHY5xzZiru-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi73wJCvfr



Scale = 1:18.8	
Plate Offsets (X, Y):	[2:0-1-8.0-0-5]

·····(), ····	, ,	-											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.01	2-5	>999	240	MT20	169/123	
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.03	2-5	>999	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	4	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%	

LUMBER			LOAD CASE(S)	Standard
TOP CHORD	2x4 SPF I	No.2		
BOT CHORD	2x4 SPF I	No.2		
SLIDER	Left 2x4 V	VW Stud 2-1-3		
BRACING				
TOP CHORD	Structura	wood sheathing directly applied or		
	3-11-4 oc	purlins.		
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc		
	bracing.			
REACTIONS	(size)	2=0-3-8, 4= Mechanical, 5=		
		Mechanical		
	Max Horiz	2=64 (LC 12)		
	Max Uplift	2=-43 (LC 8), 4=-76 (LC 12)		
	Max Grav	2=205 (LC 1), 4=134 (LC 1), 5=77		
		(LC 3)		
FORCES	(lb) - Max	imum Compression/Maximum		
	Tension			
TOP CHORD	1-2=-14/0	, 2-4=-79/44		
BOT CHORD	2-5=0/0			

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Bearings are assumed to be: , Joint 2 SPF No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 4 and 43 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 27,2024







6

5-9-8

5-9-8



vent. $3=131(F), 3=$	= 131 (F), 0=·	·39 (F), 9=•423 (F)
7=-423 (F), 4=-131	(F), 12=-131	(F), 13=-131 (F),
16=-39 (F), 17=-39	(F)	

20-0-0

5-9-8

6

0

4x4 =

15

7

3x4 =

Specia

 \square

ПП

17

JUS24

ПΠ

16

JUS24

14-2-8

8-5-0

 \square

1 min

8

JUS24

4x6=

9

3x4 =

Special

NOTES 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

6-7=-1143/3865

5-6-9 oc purlins, except

Max Horiz 2=42 (LC 12)

bracing

Tension

2-0-0 oc purlins (6-0-0 max.): 3-5.

Rigid ceiling directly applied or 10-0-0 oc

Max Uplift 2=-513 (LC 8), 6=-454 (LC 9)

Max Grav 2=1786 (LC 1), 6=1687 (LC 1)

(Ib) - Maximum Compression/Maximum

4-5=-3804/1259, 5-6=-4200/1305

2-9=-1109/3801, 7-9=-1470/4454,

3-9=-180/1046. 5-7=-152/1017.

4-9=-909/430, 4-7=-850/397

1-2=0/2, 2-3=-4151/1274, 3-4=-3737/1223,

2=0-5-8, 6= Mechanical

2-7-12

Scale = 1:45.9

Loading

TCDI

BCLL

BCDL

WEBS

BRACING

LUMBER

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

FORCES

WEBS

TOP CHORD

BOT CHORD

REACTIONS (size)

TCLL (roof)

2-6-3 2-6-3

°-0 ₩___

X

4x4 =

Top chords connected as follows: 2x4 - 1 row at 0-9-0 OC. Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.

- 19-11-4 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
- 5) Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom 6)
- chord live load nonconcurrent with any other live loads.
- 7) Bearings are assumed to be: Joint 2 SPF 1650F 1.5E .
- 8) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 9) bearing plate capable of withstanding 454 lb uplift at joint 6 and 513 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-0 from the left end to 12-0-0 to connect truss(es) to front face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 155 Ib down and 118 lb up at 5-11-4, 131 lb down and 118 lb up at 8-0-0, 131 lb down and 118 lb up at 10-0-0, and 131 lb down and 118 lb up at 12-0-0, and 155 lb down and 118 lb up at 14-0-12 on top chord, and 423 lb down and 110 lb up at 5-11-4, and 423 lb down and 110 lb up at 14-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. LOAD CASE(S) Standard





						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	TG2	Diagonal Hip Girder	2	1	Job Reference (optional	R85979585 LEE'S SUMMIT, MISSOURI

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. F Dec 27 12458/07/29:25 ID:9RizLT5sxS0XndvBrCTxOMzWRWk-RfC?PsB70Hq3NSgPqnL8w3ulTXbgKWrCDor/4zue?



Scale = 1:24.1

Plate Offsets (X, Y): [2:0-2-6,0-0-3]

			-											
Loading	(psf) 25.0	Spacing Plate Grip DOI	2-0-0		CSI TC	0.35	DEFL Vert(LL)	in 0.02	(loc) 7	l/defl	L/d 240	PLATES MT20	GRIP 197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.29	Vert(CT)	-0.04	6-7	>999	180		10//111	
BCLL	0.0	Rep Stress Incr	NO		WB	0.25	Horz(CT)	0.01	6	n/a	n/a			
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-P		- (-)		-			Weight: 32 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Left 2x4 WW Stud Structural wood shea 6-0-0 oc purlins, exx Rigid ceiling directly bracing. (size) 2=0-4-9, 6 Max Horiz 2=103 (LC Max Uplift 2=-150 (LI Max Grav 2=484 (LC	3-1-6 athing directly applied sept end verticals. applied or 8-8-5 oc s= Mechanical 5 9) C 8), 6=-116 (LC 12) 5 1), 6=413 (LC 1)	6) 7) d or 8)	This truss is International R802.10.2 ar Hanger(s) or provided suff down and 59 2-8-7, and 42 down and 10 down at 2-8- 5-6-6, and 21 design/select responsibility In the LOAD of the truss a	designed in accor Residential Code of referenced star other connection icient to support c lb up at 2-8-7, 18 2 lb down and 99 l 1 lb up at 5-6-6 o 7, 1 lb down at 5-6-6 tion of such conne of others. CASE(S) section, re noted as front (Standard	dance w sections ndard AN device(s oncentra 3 lb down b up at an top chu- 8-7, and on botto cition de loads ap F) or ba	ith the 2018 R502.11.1 a SI/TPI 1.) shall be tted load(s) 1 n and 67 lb u 5-6-6, and 44 ord, and 1 lb 1 21 lb down ord, ord. Th vice(s) is the opplied to the ick (B).	and 6 lb p at I lb at ne face						
FORCES	(lb) - Maximum Com Tension	pression/Maximum	1)	Dead + Roc	of Live (balanced):	Lumber	Increase=1.	15,						
TOP CHORD	1-2=-6/0, 2-4=-801/3 5-6=-142/131	89, 4-5=-88/64,		Uniform Loa	ads (lb/ft)									
BOT CHORD	2-7=-457/721, 6-7=-4	457/721		Concentrate	=-70, 2-0=-20 ad Loads (lb)									
WEBS	4-7=0/227, 4-6=-756	/459		Vert: 8=-I	60 (F=-34 B=-26)	11=-19	(F=-10 B=-1	10)						
NOTES				Volt. 0-	00 (I = 0 I, B= 20)	, 11– 10	(I = 10, B=	,						
 Wind: AS Vasd=91; Ke=1.00; exterior z Exterior(2 right expr for memb Lumber E This truss chord live Bearings Refer to (5) Provide n 	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BCI Cat. II; Exp C; Enclose one and C-C Corner (3) 2R) 5-10-0 to 8-1-8 zone sed; end vertical left a ers and forces & MWFF OL=1.60 plate grip DO has been designed for load nonconcurrent wil are assumed to be: Joi jirder(s) for truss to trus rechanical connection ((3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop -1-2-14 to 5-10-0, e; cantilever left and nd right exposed;C-C RS for reactions shou L=1.60 a 10.0 psf bottom th any other live load nt 2 SPF No.2. s connections. by others) of truss to	e) C vn; s.							۲ بر		STATE OF M STATE OF M SCOT SEVI NUM PE-2001	MISSOLA T.M. ER DISSO7	>
.,	late an able of white term	ding 110 lb unlift at i	- 1 - 4								X Y	27	184	

bearing plate capable of withstanding 116 lb uplift at joint 6 and 150 lb uplift at joint 2.



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December 27,2024

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J1	Jack-Open	11	1	Job Reference (optional	R85979586 LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Denv	/er. CO - 80221.	Run: 8.83 S Dec 4 2	024 Print: 8.	830 S Dec 4	2024 MiTek Industries, Inc. F	Dec 27 1240 54/07/200:05

ID:9RizLT5sxS0XndvBrCTxOMzWRWk-RfC?PsB70Hq3NSgPqnL8w3uITXbgKWrCD0yJ4zJg?IU//2U2D



Scale =	1:21.3
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Plate Offsets (X, Y): [2:0-1-8,0-0-5]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.07	2-5	>987	240	MT20	169/123
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.14	2-5	>493	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%

LUMBER			LOAD CASE(S)	Standard
TOP CHORD	2x4 SPF I	No.2		
BOT CHORD	2x4 SPF I	No.2		
SLIDER	Left 2x4 V	VW Stud 3-1-13		
BRACING				
TOP CHORD	Structura	wood sheathing directly applied or		
	5-11-4 oc	purlins.		
BOT CHORD	Rigid ceil	ng directly applied or 10-0-0 oc		
	bracing.			
REACTIONS	(size)	2=0-3-8, 4= Mechanical, 5=		
		Mechanical		
	Max Horiz	2=99 (LC 12)		
	Max Uplift	2=-81 (LC 8), 4=-111 (LC 12)		
	Max Grav	2=330 (LC 1), 4=201 (LC 1), 5=118		
		(LC 3)		
FORCES	(lb) - Max	imum Compression/Maximum		
	Tension			
TOP CHORD	1-2=-5/0,	2-4=-105/65		
BOT CHORD	2-5=0/0			

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-10-8 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
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) Bearings are assumed to be: , Joint 2 SPF No.2 . Refer to girder(s) for truss to truss connections.
- 4)

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 4 and 81 lb uplift at joint 2.

This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J2	Jack-Open	6	1	Job Reference (optional	R85979587 LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Deny	/er_CO - 80221	Run: 8 83 S Dec. 4 2	024 Print: 8	830 S Dec. 4	2024 MiTek Industries Inc. F	

ID:LHLh4Q15McGO3iR1UyMX85zWRWq-RfC?PsB70Hq3NSgPqnL8w3uITxpGKWrC9oi7J4zUC



Scale = 1:18.6	1
Plate Offsets (X, Y): [2:0-1-8,0-0-5]	

Loading		(psf)	Spacing	2-0-0	CSI	0.07	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
		25.0	Plate Grip DOL	1.15		0.27	Vert(LL)	-0.01	2-5	>999	100	WI120	169/123
		10.0	Lumber DOL	1.15		0.14		-0.02	2-5	>999	180		
BULL		0.0	Rep Stress Incr		VVB	0.00		-0.01	4	n/a	n/a		FT 000/
BCDL		10.0	Code	IRC2018/1PI2014	Matrix-P							weight: 12 lb	FI = 20%
LUMBER				LOAD CASE(S)	Standard								
TOP CHORD	2x4 SPF	No.2											
BOT CHORD	2x4 SPF	No.2											
SLIDER	Left 2x4 V	VW Stud	2-0-10										
BRACING													
TOP CHORD	Structura	wood she	athing directly applie	ed or									
	3-10-3 oc	purlins.											
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 oc)									
	bracing.												
REACTIONS	(size)	2=0-3-8, 4	4= Mechanical, 5=										
		Mechanic	al										
	Max Horiz	2=68 (LC	12)										
	Max Uplift	2=-67 (LC	8), 4=-73 (LC 12)										
	Max Grav	2=239 (LC	C 1), 4=125 (LC 1), 5	5=76									
		(LC 3)											
FORCES	(lb) - Max	imum Com	pression/Maximum										
	I ension	0 4 70/40	, ,										
TOP CHORD	1-2=-5/0,	2-4=-76/42	2										
BOICHORD	2-5=0/0												
NOTES													
 Wind: ASC 	CE 7-16; Vu	lt=115mph	(3-second gust)										
Vasd=91n	nph; TCDL=	6.0psf; BC	DL=6.0psf; h=35ft;										
Ke=1.00; (Cat. II; Exp	C; Enclose	d; MWFRS (envelop	e)								000	TO
exterior zo	one and C-C	Exterior(2	 zone; cantilever le 	ett								F. OF M	ALC AL
and right e	exposed ; er	nd vertical I	eft and right exposed	a;C-								RE	- Sol

shown; Lumber DOL=1.60 plate grip DOL=1.602) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

C for members and forces & MWFRS for reactions

- 3) Bearings are assumed to be: , Joint 2 SPF No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 4 and 67 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J3	Jack-Open	6	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Disect Lumber of Colorada, Desi		Burn 0.02 C Dec 4.0	004 Drint 01	000 C Dee 4	2024 MiTals Industrian Inc. E	

ID:LHLh4Q15McGO3iR1UyMX85zWRWq-RfC?PsB70Hq3NSgPqnL8w3uITxpGKWrC90i7J4zJC?





1-10-3	I
	1

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

Scale = 1:16

Loading		(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.00	2-5	>999	240	MT20	169/123
TCDL		10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	2-5	>999	180		
BCLL		0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 20%
LUMBER				LOAD CASE(S)	Standard								
TOP CHORD	2x4 SPF	No.2											
BOT CHORD	2x4 SPF	No.2											
SLIDER	Left 2x4 V	VW Stud	1-5-8										
BRACING													
TOP CHORD	Structura	I wood she	athing directly applie	ed or									
	1-10-3 oc	purlins.											
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 or)									
	bracing.												
REACTIONS	(size)	2=0-5-8, 4	1= Mechanical, 5=										
		Mechanic	al										
	Max Horiz	2=40 (LC	12)										
	Max Uplift	2=-57 (LC	8), 4=-35 (LC 12)										
	Max Grav	2=158 (LC (LC 3)	C 1), 4=50 (LC 1), 5=	=37									
FORCES	(lb) - Max Tension	imum Com	pression/Maximum										
TOP CHORD	1-2=-5/0,	2-4=-43/19)										
BOT CHORD	2-5=0/0												
NOTES													
1) Wind: AS	CE 7-16; Vu	lt=115mph	(3-second gust)										
Vasd=91r	nph; TCDL=	6.0psf; BC	DL=6.0psf; h=35ft;										
Ke=1.00;	Cat. II; Exp	C; Enclose	d; MWFRS (envelop	e)									Th
exterior zo	one and C-C	Exterior(2	E) zone; cantilever l	eft								OF M	APAIN
and right	and right exposed; end vertical left and right exposed;C-												
C for men	nbers and fo	orces & MW	FRS for reactions								4		N.S.Y
shown; Lu	umber DOL=	=1.60 plate	grip DOL=1.60								A	SCOTT	M. YEN
											A		

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Bearings are assumed to be: , Joint 2 SPF No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 2 and 35 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J8	Jack-Open	1	1	Job Reference (optional	R85979589 LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Deny	/er. CO - 80221.	Run: 8.83 S Dec 4 2	024 Print: 8	830 S Dec. 4	2024 MiTek Industries Inc. F	

Run: 6.65 S Dec 4 2024 Print: 8.850 S Dec 4 2024 Millek Industries, Inc. F) Dec 2/124055 U//2Pg 25 ID:NDoWLUOhHBXkx6o?fF6ChrzZls2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoh42uCff



Scale = 1:18.6				
Plate Offsets (X, Y): [2:0-1-8,0-0-5]				

Loading TCLL (roof) TCDL BCLL		(psf) 25.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.27 0.14 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 -0.01	(loc) 2-5 2-5 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 169/123
BCDL		10.0	Code	IRC2018/1PI2014	Matrix-P							Weight: 12 lb	F1 = 20%
LUMBER				LOAD CASE(S)	Standard								
TOP CHORD	2x4 SPF No.2	2											
BOT CHORD	2x4 SPF No.2	2											
SLIDER	Left 2x4 WW	Stud	2-0-10										
BRACING	0 / /												
TOP CHORD	Structural wood sheathing directly applied or												
BOT CHORD	Rigid ceiling	directly	applied or 10-0-0 oc										
	bracing.												
REACTIONS	(size) 2=	0-5-8, 4	= Mechanical, 5=										
	Me	chanica	al										
	Max Horiz 2=	69 (LC	12)										
	Max Uplift 2=	-69 (LC	8), 4=-72 (LC 12)	- 70									
	Max Grav 2=	242 (LC C 3)	5 1), 4=125 (LC 1), 5	=/6									
FORCES	(lb) - Maximu	m Com	pression/Maximum										
	Tension												
TOP CHORD	1-2=-4/0, 2-4	=-75/42											
BOT CHORD	2-5=0/0												
NOTES													
1) Wind: ASC	CE 7-16; Vult=1	15mph	(3-second gust)										
vasu=91m	ipii, ICDL=6.0	psi; bCl	JL=0.0psi; n=35π;										

- Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Bearings are assumed to be: , Joint 2 SPF No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 4 and 69 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J9	Jack-Open	1	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Bire et Lumber ef Calerada, Deau		Burn 0.02 C Dec 4.2	004 Drint 01	000 C Dee 4	2024 MiTal: Industrian Inc. E	

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. F Dec 27 1246 55 07/2 10: NDoWLUOhHBXkx60?fF6ChrzZls2-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDoh4zJCff



12 4 Г

1-10-3



Scale = 1:16					I						
Plate Offsets (X, Y):	[2:0-1-8,0-0-5]										
₋oading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.05	Vert(LL)	0.00	2-5	>999	240	MT20

LUMBER			LOAD CASE(S)	Standard									
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 20%	
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a			
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	2-5	>999	180			
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.00	2-5	>999	240	MT20	169/123	

LOWIDER		
TOP CHORD	2x4 SPF I	No.2
BOT CHORD	2x4 SPF I	No.2
SLIDER	Left 2x4 V	VW Stud 1-5-8
BRACING		
TOP CHORD	Structura	wood sheathing directly applied or
	1-10-3 oc	purlins.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	2=0-5-8, 4= Mechanical, 5=
		Mechanical
	Max Horiz	2=40 (LC 12)
	Max Uplift	2=-60 (LC 8), 4=-35 (LC 12)
	Max Grav	2=163 (LC 1), 4=48 (LC 1), 5=37
		(LC 3)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=-4/0,	2-4=-43/19
BOT CHORD	2-5=0/0	

NOTES

Plate

Loadi

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Bearings are assumed to be: , Joint 2 SPF No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 2 and 35 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



GRIP

December 27,2024



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES B85979591
241089-A	J11	Jack-Open	1	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Denv	ver, CO - 80221,	Run: 8.83 S Dec 4 2 ID:NDoWLUOhHBXk	2024 Print: 8. x6o?fF6Chrz	830 S Dec 4 Zls2-RfC?Ps	2024 MiTek Industries, Inc. F B70Hq3NSgPqnL8w3uITXbG	Dec 27 12 46 55/07/210 25 WrCDolw4zJC1f





3-10-3	

Scale = 1:26.7

Plate Offsets (X, Y): [1:0-1-8,0-0-5]

Loading		(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.01	1-4	>999	240	MT20	169/123
TCDL		10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	1-4	>999	180		
BCLL		0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%
LUMBER				LOAD CASE(S)	Standard								
TOP CHORD	2x4 SPF	No.2											
BOT CHORD	2x4 SPF	No.2											
SLIDER	Left 2x4 \	VW Stud	2-0-10										
BRACING													
TOP CHORD	Structura	I wood shea	athing directly applie	ed or									
	3-10-3 oc	purlins.											
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 o	C									
	bracing.												
REACTIONS	(size)	1=0-5-8, 3	3= Mechanical, 4=										
	Max Hariz		al 9)										
	Max Holift	1=/1 (LC	0) 8) 375 (IC 8)										
	Max Grav	1_170 (LC	(10), 3 = 133 (100)	1-76									
		(LC 3)	, 5 T), 5=155 (EC T),	+=70									
FORCES	(lb) - Max Tension	imum Com	pression/Maximum										
TOP CHORD	1-3=-78/4	3											
BOT CHORD	1-4=0/0												
NOTES													
1) Wind: ASC Vasd=91n Ke=1.00;	CE 7-16; Vu nph; TCDL= Cat. II; Exp	It=115mph 6.0psf; BC C; Enclose	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop	De)									all the

C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom

and right exposed ; end vertical left and right exposed;C-

- chord live load nonconcurrent with any other live loads. 3) Bearings are assumed to be: , Joint 1 SPF No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 22 lb uplift at joint 1 and 75 lb uplift at joint 3. 6) This truss is designed in accordance with the 2018

International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J15	Jack-Open	1	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Denv	er, CO - 80221,	Run: 8.83 S Dec 4 2 ID:NDoWLUOhHBXk	024 Print: 8.8 x60?fF6Chrz	830 S Dec 4 Zls2-RfC?Ps	2024 MiTek Industries, Inc. F B70Hq3NSgPqnL8w3uITXbG	I Dec 27 1246 56 07 / 21 12 25 WrCDoiry4z JC?f

1-10-3





 Scale = 1:24.2
 1-10-3

 Plate Offsets (X, Y):
 [1:0-1-8,0-0-5]

Loading		(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	1-4	>999	240	MT20	169/123
TCDL		10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	1-4	>999	180		
BCLL		0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 6 lb	FT = 20%
LUMBER				LOAD CASE(S)	Standard								
TOP CHORD	2x4 SPF	No.2											
BOT CHORD	2x4 SPF	No.2											
SLIDER	Left 2x4 \	NW Stud	- 1-5-8										
BRACING													
TOP CHORD	Structura	l wood she	athing directly applie	ed or									
	1-10-3 oc	purlins.											
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 o	с									
	bracing.												
REACTIONS	(size)	1=0-5-8,	3= Mechanical, 4=										
		Mechanic	al										
	Max Horiz	1=43 (LC	8)										
	Max Uplift	1=-7 (LC	8), 3=-40 (LC 8)										
	Max Grav	1=83 (LC	1), 3=64 (LC 1), 4=3	37									
		(LC 3)											
FORCES	(lb) - Max	imum Con	pression/Maximum										
	Tension												
TOP CHORD	1-3=-52/2	22											
BOT CHORD	1-4=0/0												
NOTES													
1) Wind: AS	CE 7-16; Vu	llt=115mph	(3-second gust)										
Vasd=91n	nph; TCDL=	=6.0psf; BC	DL=6.0psf; h=35ft;										
Ke=1.00;	Cat. II; Exp	C; Enclose	ed; MWFRS (envelop	be)									m
exterior 70	ne and C-C	Exterior(2	E) zone: cantilever	loft								6	The

3x4 u

shown; Lumber DOL=1.60 plate grip DOL=1.602) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions

- 3) Bearings are assumed to be: , Joint 1 SPF No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1 and 40 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		тс	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0	Rep Stress Incr	YES		WB	0.02	Horiz(TL)	0.00	7	n/a	n/a		
BCDL		10.0	Code	IRC20	8/TPI2014	Matrix-S							Weight: 22 lb	FT = 20%
				3) Truss design	ed for wind loads	in the pla	ane of the tru	SS					
TOP CHORD	2x4 SPF	No 2			only. For stu	ids exposed to wi	nd (norm	al to the face),					
BOT CHORD	2x4 SPF	No 2			see Standard	Industry Gable E	End Detai	Is as applical	ble,					
OTHERS	2x4 SPF	No.2			or consult qu	alified building de	esigner as	per ANSI/TI	PI 1.					
BRACING				4) Provide adeo	quate drainage to	prevent v	vater ponding	g.					
TOP CHORD	Structura	I wood she	athing directly applied	dor 5) Gable requir Gable studs	es continuous bot	ttom chor	d bearing.	-					
	2-0-0 oc	purlins, exc purlins (6-0	ept -0 max.): 2-6.	7) This truss ha	s been designed	for a 10.0) psf bottom						
BOT CHORD	Rigid ceil bracing.	ing directly	applied or 10-0-0 oc	: 8	All bearings	ad nonconcurrent are assumed to be	with any e SPF No	other live loa	ds.					
REACTIONS	(size)	1=7-11-0, 9=7-11-0.	7=7-11-0, 8=7-11-0, 10=7-11-0	, g	bearing plate	capable of withs	tanding 1	ers) of truss t 9 lb uplift at j	oint					
	Max Horiz	1=-39 (LC	(8)		1, 19 lb uplift	at joint 7, 45 lb u	plift at joi	nt 10, 47 lb u	plift					
	Max Uplift	1=-19 (LC	(LC 13), 7=-19 (LC 13).		at joint 9 and	37 lb uplift at joir	nt 8.							
		8=-37 (LC	8), 9=-47 (LC 8), 10)=-45 1	0) This truss is	designed in accor	rdance w	th the 2018	nd					
		(LC 9)			R802.10.2 a	nd referenced star	ndard AN	ISI/TPI 1.	inu					
	Max Grav	1=74 (LC	1), 7=74 (LC 1), 8=1	70 1	1) Graphical pu	rlin representation	n does no	t depict the s	size					
		(LC 28), 9 (LC 27)	=189 (LC 27), 10=17	70	or the orienta	ation of the purlin	along the	top and/or						
FORCES	(lb) - Max Tension	kimum Com	pression/Maximum	L	OAD CASE(S)	Standard								
TOP CHORD	1-2=-67/3 4-5=-49/4	35, 2-3=-49/ 14, 5-6=-49/	/44, 3-4=-49/44, /44, 6-7=-67/28											
BOT CHORD	1-10=-7/3	, 30, 9-10=-7/	/30, 8-9=-7/30, 7-8=-	7/30									2000	alle
WEBS	3-10=-14	2/66, 4-9=-	181/71, 5-8=-142/58										OF N	MISCO
NOTES													450	-20 M
1) Unbalance	ed roof live	loads have	been considered for									A	NY accord	New Y
this design	n.											4	S/ SCOI	\mathbf{M} . $\mathbf{V} \in \mathbf{V}$
2) Wind: ASC	CE 7-16; Vu	ılt=115mph	(3-second gust)									He.	SEVI	
Vasd=91n	nph; TCDL=	=6.0psf; BC	DL=6.0psf; h=35ft;									7/0*	1 ett	0
Ke=1.00; (Cat. II; Exp	C; Enclose	d; MWFRS (envelope	e)								2	att.	SIMUS
exterior zo	one and C-C	C Exterior(2	 E) zone; cantilever le 	əft								and a	NUM	BER /~ U
and right e	exposed ; e	nd vertical I	eft and right exposed	d;C-								\$7	DE 2001	018807 199
C for mem	nbers and fo	orces & MW	/FRS for reactions									N	-2001	SB
snown; Lu	INDEL DOL	=1.60 plate	grip DOL=1.60									Y	198	IN B
													SIONA	LEN

December 27,2024

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							RELEASE	FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Buil	der-P24098	AS NOTE Lot 209- 2750 S	D FOR PLAN REVIEW W 11th Terr OPMENT SERVICES
241089-A	H2	Hip Girder	1	1	Job Referen	ice (optional)	LEE'S	R85979594 SUMMIT, MISSOURI
Direct Lumber of Colorado, Denv	ver, CO - 80221,	Run:	8.83 S Dec 4 2024 Print:	3.830 S Dec 4	2024 MiTek Ind	lustries, Inc. F	Dec 27 12 46 53)7/2025
	-0-10-8 ├──┼ 0-10-8	<u>5-11-4</u> 5-11-4	10-4-0 4-4-12 20-8-	14-8-1 4-4-12 0	2 2	<u>20-8</u> 5-11	21-1 3-0 1-4 0-11	6-8)-8
2-7-12 2-7-12		Special 4^{12} $6x6 =$ 7 12 $11x8 =$ $3x6 =Special$	Special Special 2x4 13 15 1 14 4 20 10 21 2 8x8 = 9 JUS24 JUS24 JUS24	Special Special S 1 T 1 S 2 S 23 S 24	al Special 8 6x6= 3 5 4 5 8 3x6 II 4 Special	19	6 6x8=	7
Scale = 1:45.9	F	<u>5-9-8</u> 5-9-8	10-4-0 4-6-8	<u>14-10</u> 4-6-8	-8	<u>20-8</u> 5-9	8-0 I-8	
Plate Offsets (X, Y): [2:0-4-	0,0-3-14], [6:0-4-0,0-3-14]	-	-				1	
Loading TCLL (roof) TCDL BCLL BCDL	(psf)Spacing25.0Plate Grip DOL10.0Lumber DOL0.0Rep Stress Incr10.0Code	2-0-0 CSI 1.15 TC 1.15 BC NO WB IRC2018/TPI2014 Matrix-	0.90 Ver 0.40 Ver 0.29 Ho	=L t(LL) -0. t(CT) -0. z(CT) 0.	in (loc) 22 9 38 9 05 6	I/defl L/d >999 240 >636 180 n/a n/a	PLATES MT20 Weight: 92 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD 2x4 SPF 16 BOT CHORD 2x8 SPF 19 WEBS 2x4 SPF No BRACING TOP CHORD Structural w 2-10-3 oc pu 2-0-0 oc pul BOT CHORD Rigid ceiling bracing. REACTIONS (size) 2 Max Horiz 2 Max Horiz 2 FORCES (lb) - Maxim Tension TOP CHORD 1-2=0/6, 2-3 4-5=-5092/1 BOT CHORD 2-11=-1231, 8-9=-1239/4 WEBS 3-11=-69/58 5-9=-342/11 NOTES 1) Unbalanced roof live loa this design. 2) Wind: ASCE 7-16; Vult= Vasd=91mph; TCDL=60, Ke=1.00; Cat. II; Exp C; exterior zone and C-C E Interior (1) 4-1-8 to 5-11 Interior (1) 13-0-2 to 14- 21-6-8 zone; cantilever I vertical left and right exp forces & MWFRS for ree DOL=1.60 plate grip DO 3) Provide adequate draina 4) This truss has been des chord live load nonconce	50F 1.5E 50F 1.7E .2 ood sheathing directly appli urlins, except tins (2-4-2 max.): 3-5. 1 directly applied or 9-9-0 oc =0-3-8, 6=0-3-8 =-42 (LC 13) =-538 (LC 8), 6=-538 (LC 9) =1878 (LC 1), 6=1878 (LC 1 um Compression/Maximum =-4493/1402, 3-4=-5092/16 644, 5-6=-4493/1416, 6-7=(4146, 9-11=-1226/4105, 105, 6-8=-124/4146 (6, 5-8=-72/596, 3-9=-341/1 99, 4-9=-874/451 ds have been considered for 115mph (3-second gust) 0psf; BCDL=6.0psf; h=35ft; Enclosed; MWFRS (envelo xterior(2E) -0-10-8 to 4-1-8, 4, Exterior(2E) 14-8-12 ti eft and right exposed ; end tosed;C-C for members and ctions shown; Lumber L=1.60 ge to prevent water ponding igned for a 10.0 psf bottom urrent with any other live loa	 5) All bearings are assu 6) Provide mechanical of bearing plate capable 2 and 538 lb uplift at 1. 7) This truss is designed international Residen R802.10.2 and refere 8) Graphical purlin represent or the orientation of the bottom chord. 9) Use MiTek JUS24 (Mnails into Truss) or existing at 8-0-0 from truss(es) to front face 10) Fill all nail holes when 11) Hanger(s) or other corprovided sufficient to growided sufficient to 14, lb down and 118 lb up at 12-8-0, 131 lb di lb down and 118 lb up 118 lb up at 12-8-0, 131 lb di bottom chord. The di device(s) is the responsente of the truss are noted LOAD CASE(S) Standard 10) Dead + Roof Live (britt Hatel Increase=1.15 concentrated Loads Vert: 3=-131 (F), 14=-131 (F), 15=-20=-39 (F), 21=-3 	med to be SPF 1950F connection (by others) e of withstanding 538 lb joint 6. d in accordance with th titial Code sections R50 enced standard ANSI/T esentation does not de he purlin along the top Vith 4-10d nails into Gin quivalent spaced at 2-0 the left end to 12-8-01 e of bottom chord. The hanger is in contact ponnection device(s) sha support concentrated 1 p at 5-11-4, 131 lb dow own and 118 lb up at 1 p at 10-8-0, and 131 lb and 155 lb down and 1 and 155 lb down and 1 and 108 lb up at 1 esign/selection of such possibility of others. B) section, loads applie d as front (F) or back (E and balanced): Lumber Incr 5 5=-70, 5-7=-70, 2-6=-21 s (lb) 5=-131 (F), 11=-419 (F -131 (F), 22=-39 (F), 23=	1.7E . of truss to uplift at join e 2018 2.11.1 and Pl 1. oict the size and/or der & 2-10d -0 oc max. o connect with lumber. II be be be connect with lumber. II be connect with lumber. II be connect 0 -0, 131 down and 18 lb up at 108 lb up at 109 (F) pase=1.15,), 8=-419 (F), 39 (F)	t D		State OF M SEVI PE-20010 PE-20010 December	AISSOLUTION M. ER 118807 50 118807 50 118807 50 12 EN GILL 27,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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											RELEASE	FOR CONSTRUCTION	N
Job		Truss		Truss Type		Qty	Ply	Clayton Bu	ilder-P2	4098	AS NOT -Lot 209- 2750 S	D FOR PLAN REVIEW	v
241089-A		НЗ		Hip		1	1	lob Refere	nce (on	tional	LEE'S	SUMMIT, MISSOURI	
Direct Lumber o	of Colorado, Denv	ver, CO - 802	21,		Run: 8.83 S Dec 4 ID:HrIGGhx6kIFQ98	2024 Print: EZEfP?4JC	8.830 S Dec 4 zBdLL-RfC?PsE	2024 MiTek li 370Hq3NSgPc	ndustries, nL8w3ul	Inc. Fi	Dec 27 12 46 53 WrCDoi75 4zJC?1	07/202	5
			-0-10-8 	4-1-9 4-1-9	7-11-4 3-9-11	<u>12-8-</u> 4-9- 20-8-	12 3	<u>16-6-7</u> 3-9-11		<u>2</u> 4	21-6 0-8-0 I-1-9 0-10	-8 -8	
	3-3-12	$\frac{3.2.3}{3.2.3} + \frac{0.1.9}{0.1-9}$	9 1 2 8 2 4 xe	4^{12} $2x4 = 4$ $3x4 = 4$ 4 4 3	6x6=	2	4x6 0 11 3x6		2x4		4x4≈ 8 15 9 4x6 ∎	10 J	
Scale = 1:48.6 Plate Offsets ((X. Y); [2:0-4-{	5.Edael. (9	:0-4-5.Edge]	7-9-8 7-9-8		<u>12-10</u> 5-1-	- <u>8</u>		<u>20-8</u> 7-9-	<u>-0</u> ·8			
Loading TCLL (roof) TCDL BCLL BCDL	(,,,), [=:0 : ((psf) \$ 25.0 F 10.0 L 0.0 F 10.0 (0	Spacing Plate Grip DOL .umber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-S	0.39 Ve 0.59 Ve 0.09 Hc	EFL rt(LL) -0 rt(CT) -0 rz(CT) 0	in (loc) 11 2-13 25 2-13 06 9	l/defl >999 >998 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 76 lb	GRIP 197/144 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD	2x4 SPF No 2x4 SPF No 2x4 SPF No Left 2x4 SPF Stud 2-1-1 Structural w 3-9-14 oc pu 2-0-0 oc pur Rigid ceiling	.2 .2 = No.2 2- ood sheath urlins, exce lins (4-2-1 directly ap	1-7, Right 2x4 WW hing directly applied pt 1 max.): 5-6. pplied or 7-6-1 oc	 3) Provide adec 4) This truss ha chord live loa 5) All bearings a 6) Provide mech bearing plate 2 and 220 lb or 7) This truss is a International R802.10.2 ar 8) Graphical put or the crients 	quate drainage to pre s been designed for ad nonconcurrent wit are assumed to be S hanical connection (I capable of withstan uplift at joint 9. designed in accordal Residential Code se ad referenced standa rlin representation d	event wate a 10.0 psi h any othe PF No.2 . by others) ding 220 I nce with the ctions R5 ard ANSI/T bes not de on the top	r ponding. bottom r live loads. of truss to b uplift at join ne 2018 02.11.1 and PI 1. pict the size and/or	t			<u>.</u>		
REACTIONS	bracing. (size) 2= Max Horiz 2= Max Uplift 2= Max Gray 2=	=0-3-8, 9=0 =54 (LC 12 =-220 (LC 3)-3-8)) 8), 9=-220 (LC 9)) 9=991 (LC 1)	or the orienta bottom chord LOAD CASE(S)	ation of the purlin alo I. Standard	ng the top	and/or						
FORCES	(lb) - Maxim	um Compre	ession/Maximum										
TOP CHORD	1-2=-5/0, 2-4 5-6=-1601/6	4=-1892/68 04, 6-7=-1	89, 4-5=-1701/576, 701/599,										

7-9=-1891/711, 9-10=-5/0 BOT CHORD 2-13=-590/1690, 11-13=-431/1579, 9-11=-600/1688 WEBS 5-13=0/246, 5-11=-154/154, 6-11=0/246, 4-13=-146/174, 7-11=-145/173

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: AŠCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior (1) 3-11-2 to 7-11-4, Exterior(2E) 7-11-4 to 12-8-12, Exterior(2R) 12-8-12 to 19-9-10, Interior (1) 19-9-10 to 21-6-8 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

December 27,2024



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	CG6	Diagonal Hip Girder	2	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
	•					

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. F Dec 27 124652/07/29:25 ID:k9AfVKV5W2NA?5XZIduPXJzBdNB-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWrCDorr4z50?7



Scale = 1:25.7 Plate Offsets (X, Y): [2:0-2-6.0-0-3]

	7, 1): [2:0 2 0,0 0 0]													
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-P	0.34 0.28 0.25	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.02 -0.04 0.01	(loc) 7 6-7 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 32 lb	GRIP 197/144 FT = 20%	
LUMBER TOP CHORD 30T CHORD WEBS SLIDER BRACING TOP CHORD 30T CHORD 30T CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Wind: ASC Vasd=91n Ke=1.00; (exterior 22 Exterior[21] right expor for membe Lumber D 2) This truss chord live 3) Bearing a 4) Refer to gi 5) Provide m bearing pli 6 and 149	2x4 SPF No.2 2x4 SPF No.2 Left 2x4 WW Stud Structural wood shea 6-0-0 oc purlins, exx Rigid ceiling directly bracing. (size) 2=0-4-9, 6 Max Horiz 2=103 (LC Max Uplift 2=-149 (L Max Grav 2=482 (LC (lb) - Maximum Com Tension 1-2=-6/0, 2-4=-792/3 5-6=-140/131 2-7=-459/712, 6-7= 4-7=0/227, 4-6=-747 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclosse one and C-C Corner (3) R) 5-10-0 to 8-1-8 zone sed ; end vertical left a ers and forces & MWFF OL=1.60 plate grip DO has been designed for load nonconcurrent wi are assumed to be: Joi irder(s) for truss to trus echanical connection (ate capable of withstar Ib uplift at joint 2.	3-1-6 athing directly applie: cept end verticals. applied or 8-8-2 oc 3= Mechanical 30) C 8), 6=-115 (LC 12) 1), 6=408 (LC 1) pression/Maximum 91, 4-5=-87/64, 459/712 /461 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelope) 0-1-2-14 to 5-10-0, a; cantilever left and nd right exposed;C-C RS for reactions show L=1.60 :a 10.0 psf bottom th any other live load nt 2 SPF No.2. ss connections. by others) of truss to iding 115 lb uplift at j	6) 7) d or 8) LC 1) 9) 2; vn; s. 5;	This truss is International R802.10.2 at Hanger(s) or provided suff down and 59 2-8-7, and 42 down and 99 at 2-8-7, 11 ko selection of s responsibility In the LOAD of the truss a DAD CASE(S) Dead + Roo Plate Increa Uniform Loa Vert: 1-5: Concentrati Vert: 8=-1	designed in accord Residential Code s and referenced stand other connection of icient to support co- lb up at 2-8-7, 16 2 lb down and 99 lb 1 bu pat 5-6-6 on 15 2 down at 2-8-7, ar wn at 5-6-6 on bot such connection de r of others. CASE(S) section, 1 re noted as front (f Standard of Live (balanced): ase=1.15 ads (lb/ft) =-70, 2-6=-20 ed Loads (lb) 53 (F=-26, B=-26),	ance w sections dard AN levice(s oncentra lb dowi top cho hd 21 lb tom cho vice(s) loads a -) or ba Lumber	ith the 2018 is R502.11.1 a ISI/TPI 1. i) shall be ated load(s) ' rd, and 1 lb c down at 5-6 ord. The des is the pplied to the ck (B). Increase=1. (F=-10, B=-	and 16 lb 19 at 2 lb down 6-6, sign/ face .15, 10)				STATE OF M STATE OF M SCOT SEVI PE-20010 PE-20010 PE-20010	MISSOLA T.M. ER DI8807 L ENGT	

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



December 27,2024

241089-A	HG1	Lay-In Gable	1	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	-Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
				•		RELEASE FOR CONSTRUCTION



Scale = 1:27.4

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES		WB	0.03	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2	018/TPI2014	Matrix-P			-				Weight: 35 lb	FT = 20%
LUMBER				3) Truss desigr	ed for wind loa	ads in the pl	ane of the tru	ISS					
TOP CHORD	2x4 SPF No.2			only. For stu	ids exposed to	wind (norm	al to the face	e),					
BOT CHORD	2x4 SPF No.2			see Standar	d Industry Gab	le End Deta	ils as applica	ıble,					
OTHERS	2x4 SPF No.2			or consult qu	alified building	designer a	s per ANSI/T	PI 1.					
BRACING				Provide adeo	quate drainage	to prevent	water pondin	g.					
TOP CHORD	Structural wood she	athing directly applie	ed or	Gable requir	es continuous	bottom chor	d bearing.						
	6-0-0 oc purlins, exc	cept		6) Gable studs	spaced at 0-0-	0 oc.							
	2-0-0 oc purlins (6-0	0-0 max.): 3-4.		7) This truss ha	is been design	ed for a 10.	0 psf bottom						
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	0	chord live loa	ad nonconcurre	ent with any	other live loa	ads.					
	bracing.			8) All bearings	are assumed t	o be SPF N	0.2.						
REACTIONS	(size) 1=8-7-0, 6	6=8-7-0, 7=8-7-0, 8=	8-7-0,	 Provide mec bearing plate 	hanical conne capable of wi	tion (by oth	ers) of truss	to joint					
	9=0-7-0, Max Hariz 1-110 (1)	10=0-7-0 C 11)		1, 10 lb uplif	at joint 6, 158	lb uplift at j	oint 10, 15 lb	uplift					
	Max Holiz 1=110 (LC	5 I I) S 9) 6 - 10 (I C 0) 7	150	at joint 9 and	l 159 lb uplift a	t joint 7.							
		(10, 0), 0 = 10 (10, 9), 7 = 10 (10, 9), 10 = 15	=-159	10) This truss is	designed in ac	cordance w	ith the 2018						
	(20 13), 3	=-13 (LC 3), 10=-13		International	Residential Co	ode sections	s R502.11.1 a	and					
	Max Grav 1=95 (LC	22) 6=81 (I C 24) 7	7=233	R802.10.2 a	nd referenced	standard AN	ISI/TPI 1.						
	(LC 22), 8	3=91 (LC 28), 9=102	(LC	11) Graphical pu	rlin representa	tion does no	ot depict the	size					
	24), 10=2	33 (LC 21)	(or the orienta	ation of the pur	lin along the	e top and/or						
FORCES	(lb) - Maximum Com	pression/Maximum		bottom chore	1. 								
	Tension			LOAD CASE(S)	Standard								
TOP CHORD	1-2=-114/99, 2-3=-1	30/94, 3-4=-93/93,											
	4-5=-130/89, 5-6=-9	3/69											
BOT CHORD	1-10=-58/88, 9-10=-	58/88, 8-9=-58/88,										San	The
	7-8=-58/88, 6-7=-58	/88										S OF I	MISS
WEBS	2-10=-273/184, 3-9=	-76/30, 4-8=-66/7,										4 SE	-20.V
	5-7=-273/184										A	NY and	- Cov
NOTES											A	SCOT	T M.
1) Unbalanc	ed roof live loads have	been considered for	r								81	SEV.	IER \
this desig	n.										0		7
2) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)									8	0	
Vacd-01r	noh TCDI 6 Onof BC	DI 6 Opof: b 2Eft:									VI /		

Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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





E

PE-2001018807

December 27,2024

SIONAL



Plate Offsets (X, Y): [2:0-2-8.0-1-12]

1 1010 0110010	(,,, ,). [2:0 2 0,0 1 12	.1											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.04 0.02 0.02	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 17 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 5-4-14 oc purlins, e 2-0-0 oc purlins: 2-5 Rigid ceiling directly bracing. (size) 1=5-4-10, 8=5-4-10 Max Horiz 1=69 (LC Max Uplift 1=-2 (LC a), 8= Max Grav 1=73 (LC (LC 1), 8= (b) - Maximum Com	athing directly applie xcept end verticals, applied or 10-0-0 or 6=5-4-10, 7=5-4-10 9) 8), 6=-11 (LC 9), 7= -63 (LC 9) 22), 6=41 (LC 1), 7= -180 (LC 1)	4) 5) 6) 7) 8) ed or c 9) 0, 10 -47 L0 =163	Gable requir Gable studs This truss ha chord live loa All bearings : Provide mec bearing plate 11 lb uplift at at joint 7. This truss is International R802.10.2 at 0) Graphical pu or the orienta bottom chorc DAD CASE(S)	es continuous be spaced at 0-0-0 is been designer ad nonconcurren are assumed to hanical connecti e capable of with t joint 6, 63 lb up designed in accr Residential Cool nd referenced st irlin representation ation of the purlir f. Standard	ottom chor oc. d for a 10.1 t with any be SPF Ni ion (by oth standing 2 lift at joint ordance w le sections andard AN on does no n does no n along the	d bearing. D psf bottom other live loa 5.2. ers) of truss t Ib uplift at jo 8 and 47 lb u ith the 2018 i R502.11.1 a ISI/TPI 1. ot depict the s top and/or	ids. int 1, iplift ind size					
TOP CHORD	Tension 1-2=-89/94, 2-3=-36 4-5=-36/38, 5-6=-43	/38, 3-4=-36/38,											
BOT CHORD WEBS NOTES 1) Wind: ASI Vasd=91r Ke=1.00; exterior zr and right C for men shown; Lu	1-8=-31/35, 7-8=-31 3-8=-218/127, 4-7=- CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical I nbers and forces & MW umber DOL=1.60 plate signed for wind loads in	(35, 6-7=-31/35 158/65 (3-second gust) DL=6.0psf; h=35ft; sd; MWFRS (envelop 25) zone; cantilever I left and right expose /FRS for reactions grip DOL=1.60 the plane of the trus	be) left ld;C- ss									STATE OF I SCOT SEVI NUM PE-2001	MISSOLP I M. ER BER 018807
only. For see Stand	studs exposed to wind dard Industry Gable En- t qualified building desire	l (normal to the face) d Details as applications of the face)), ple, Pl 1								Ŵ	FRSSIONA	LENGT

3) Provide adequate drainage to prevent water ponding.

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														RELEAS	E FOR CON	STRUCTION
Job	Т	Truss		Truss 7	Гуре		Qty	'	Ply	Cla	ayton Bu	ilder-P2	40989	-Lot 209- 2750	FED FOR PLA SW 11th Ter LOPMENT S	AN REVIEW
241089-A	A	A12		Roof S	Special		1		1	Jol	o Refere	nce (op	tional	LEE'	R85979 S SUMMIT, M	9599 ISSOURI
Direct Lumber of	Colorado, Denver,	, CO - 80)221,	•		Run: 8.83 S Dec	4 2024 F	Print: 8.8	30 S Dec	4 2024	1 MiTek Ir	dustries,	Inc. F	Dec 27 12 46 48	07/2	PO25
						ID:6UeOmENJFG	KWhylgE)3y5jKzE	0v5p-RfC	PsB70?)Hq3NSgl	PqnL8w3	ulTXbG	KWrCD077J4zJC		.020
		. 3	-1-4 6-7-4		10-1-4 1	2-9-4 16-3-1	2 .	19-1-3	3.	23-3	-13	. 2	7-8-14	. 31-	32-	9-8
		3	-1-4 3-6-0	-	3-6-0	2-8-0 3-6-8	-	2-9-7		4-2-	10		4-5-1	4-	1-9	
						:	31-10-8	3								
<u>-</u>	Ō		.12		٥ ٥	6x6= 5 21	2x4 6	" 22	6x6= 7							
4-11 -9-8 -7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4x6 -	4 4x4= 2	4x4=	20 0 4			ā		_	3	×4 =				
ع 4 0 4 4 0 4	10 -1 10 -1	1		×							\rightarrow	8 23		2x4 a		
10-1	-11-1	To-	$\sim \parallel$									\mathbb{N}^{-}		9	3x8≈	
-	_ × 19					/ 0	Þ	16						\nearrow	10	
		_ 3x8=			17		15						¥/			
			6x8=		4x10	= 8x14	4= _{2x4}		14 5×12-				13 2×4 –		⊠ 5x8=	0
									5712 =				574-			
	0.	-1-12 <u>µ 2-</u>	11-8	10-3-0		16-2-0		19-2-1	5		25-4-10			31-10-8		
	0.	"2- -1-12	9-12	7-3-8	ļ	5-11-0	1	3-0-15	5		6-1-10		I	6-5-14	ļ	
Plate Offsets ()	X, Y): [4:0-4-12	,Edge],	[11:0-0-5,0-3-5], [19	9:0-4-8,0	-1-8]											
	(r	vef)	Spacing	2-0-0	-	C91		DEEL		in	(loc)	l/defl	L/d		GPIP	
TCLL (roof)	(P 2:	5.0	Plate Grip DOL	1.15		TC	0.88	Vert(L	L) -	0.27	16-17	>999	240	MT20	197/144	
TCDL BCLL	1	0.0	Lumber DOL Rep Stress Incr	1.15 YES		BC WB	0.82 0.63	Vert(C Horz(C	:Т) - СТ)	0.51 0.15	16-17 11	>745 n/a	180 n/a			
BCDL	1	0.0	Code	IRC201	8/TPI2014	Matrix-S		``	,					Weight: 138 I	FT = 20%	6
				2)	Wind: ASCE	7-16; Vult=115mph	(3-sec	ond gue	st) 25#*							
BOT CHORD	2x4 SPF No.2 2x4 SPF No.2				Ke=1.00; Ca	t. II; Exp C; Enclose	d; MW	FRS (er	nvelope))						
WEBS SLIDER	2x4 SPF No.2 Right 2x4 WW	Stud	2-1-4		exterior zone Exterior(2R)	and C-C Exterior(2 7-1-4 to 12-1-4, Inte	2E) 4-1- erior (1)	12 to 7 12-1-4	-1-4, to							
					16-9-4, Exter to 23-1-3, Ex	ior(2R) 16-9-4 to 21 terior(2R) 23-1-3 to	1-9-4, lr 28-1-3	nterior (1) 21-9-4 or (1)	4						
TOP CHORD	2-0-7 oc purlin	id snea is, exce	ept end verticals, an	d or	28-1-3 to 36-	9-8 zone; cantileve	r left an	d right	exposed	l;						
BOT CHORD	2-0-0 oc purlin Rigid ceiling di	is (2-9-3 irectly a	3 max.): 2-4, 5-7. applied or 7-0-14 oc		forces & MW	FRS for reactions s	hown; I	Lumber		iu						
DEACTIONS	bracing.	0594		3)	Provide adec	ate grip DOL=1.60 juate drainage to pr	event v	vater po	onding.							
REACTIONS	Max Horiz 19=	-115 (L	C 13)	4)	 This truss ha chord live loa 	s been designed fo ad nonconcurrent wi	r a 10.0 ith anv) psf bo other liv	ttom /e loads.							
	Max Uplift 11= Max Grav 11=	-310 (L 1493 (L	C 9), 19=-276 (LC 8 .C 1), 19=1427 (LC) 5) 1) 6)	Bearings are	assumed to be: , Je	oint 11	SPF No	o.2 .							
FORCES	(lb) - Maximum	n Comp	ression/Maximum	7	Provide mec	hanical connection	(by othe	ers) of t	russ to							
TOP CHORD	1-2=-1538/395	5, 2-3=-	1438/398,		11 and 276 ll	o uplift at joint 19.	naing 3	מו טר	Dint at joi	Int						
	3-4=-3728/976 5-6=-3275/922	5, 4-5=- 2, 6-7=-	3871/1030, 3244/914,	8)	 This truss is International 	designed in accorda Residential Code s	ance wi ections	th the 2 R502.1	2018 11.1 and							
	7-8=-2607/738 9-11=-3139/80	3, 8-9=∹)1, 11-1	3055/778, 2=-4/0, 1-19=-1418/	(400 g	R802.10.2 ar	nd referenced stand	lard AN	SI/TPI	1. t the size	2						
BOT CHORD	18-19=-62/127	7, 17-18	=-643/2811,	0,	or the orienta	ation of the purlin al	ong the	top and	d/or						ADDE	
	6-16=-346/163	3, 14-15	i=-42/105,	L	OAD CASE(S)	Standard								E OF	MISS	Dr.
WEBS	13-14=-670/28 2-18=-13/262,	301, 11- 4-17=-	·13=-692/2833 1333/385,										A	A.A.		Ne
	14-16=-513/24 7-14=-423/114	154, 7-1 I. 1-18=	6=-300/1276, -420/1656.										B	S/ SCO	/IER	15-13
	3-17=-218/109	97, 3-18	=-1730/505,										40	1 4	9	*
	5-17=-214/102	29, 5-16	i=-109/458									6		Catt	ABER	yes
NOTES 1) Unbalance	d roof live loads	have h	een considered for										8T	PE-200	1018807	EB
this design	l.												Q	TPS	10	S A
														WON.	AL EL	7
														100	000	

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

December 27,2024



															_ [RELEAS	E FOR CONSTRU	CTION
Job		Truss			Truss 1	уре			Qty	1	Ply	CI	ayton Bu	ilder-P2	4098	AS NOT -Lot 209- 2750 DEVE	ED FOR PLAN RE SW 11th Terr LOPMENT SERVIO	VIEW
241089-A		A11			Roof S	Special			1		1	Jo	b Refere	nce (op	tional	LEE'S	R85979600 SUMMIT, MISSO	URI
Direct Lumber of	f Colorado, Denv	er, CO - 8	30221,					Run: 8.83 S	Dec 4 2024 F	Print: 8.8	30 S Dec	4 202	24 MiTek Ir	ndustries,	Inc. F	Dec 27 12 46 48	07/20	25
								ID:_uFmmYF	PVKN7?TVc6z	Y?6xFz	Dv74-RfC	?PsB7	′0Hq3NSg	PqnL8w3	ulTXb	KWrCD07J42JC		20
		1-2	2-4		0 7 1		11 0	⊿ 16-	17-2-4 -3-12	22.1	1.0		26.6.2		21	32-9-	-8	
		⊢ 1-2	3-6-0		3-6-0		6-6-) 1·	-7-8	4-11	I-9 I-5	1	4-4-10		5	-4-5	0	
		⊢ ⊢						3	0-10-8 81-10-8								0	
																I		
									3x4=									
	+ - +	ი 4 ი 4	12					4x10 <u>약</u> 5	0= 6x6= 67									
	5-6	່ ວ່ ວ່ 5x5	4x4=	4x10=	6	x10=	_	è			3	x4≈ 8	20					
	+ -12 + -12 + 5		2	3	22 4	23			// /		\rightarrow		3x6 ≈ 9	2x4 🥠				
	0 0 0 0 0 0 0						R		/ /	/					24	^{3x8} ≈ 11		
		21				<u>+</u>						```	\mathbb{N}			12	13 오	
	\perp	3x8	200 <u>0</u> 3=		3	19 8x8=		2 18 	16 - 15								a ¢⊥ o	
			6x8=					5.0-	2x4 II				3x4=			5x8=		
		1-0)-8					6x1	6= 8x10=									
		0-1-1	2	8-4-0			14-6-	8 16	17-4-0 -2-0		24-3-8			3	1-10-8	3		
		0-1-1	2	7-3-8		1	6-2-	3 1-	7-8		6-11-8		1		7-7-0			
Scale = 1:63.7		0-10)-12						1-2-0									
Plate Offsets (X, Y): [4:0-4-1	2,Edge]], [12:0-0-5,0	-3-5], [17	7:0-8-12,	0-5-12], [19	9:0-3-	8,0-1-8], [21:0)-4-8,0-1-8]									
Loading		(psf)	Spacing		2-0-0			CSI		DEFL		in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof) TCDL		25.0 10.0	Plate Grip I Lumber DC	DOL)L	1.15 1.15			TC BC	0.77 0.83	Vert(L Vert(C	L) - CT) -	0.30	18-19 18-19	>999 >677	240 180	MT20	197/144	
BCLL BCDI		0.0 10.0	Rep Stress	Incr	YES	8/TPI2014		WB Matrix-S	0.76	Horz(CT)	0.18	12	n/a	n/a	Weight: 143 lb	FT = 20%	
		10.0	0000		1	Unbalan	ced r	of live loads	have been o	onside	red for			-		Wolgin. The la	20/0	
TOP CHORD	2x4 SPF No.	2 *Exce	pt* 4-5:2x4 S	SPF 1650)F	this desi	gn.	7 16: \/ult_11	5mph (2 coc	ond au	(red tet							
BOT CHORD	2x4 SPF No.	2 *Exce	pt* 21-17:2x4	4 SPF	۷,	Vasd=91	1mph	TCDL=6.0ps	sf; BCDL=6.0)psf; h=	=35ft;							
WEBS	1650F 1.5E 2x4 SPF No.	2				exterior	; Cat. zone	and C-C Exte	erior(2E) 4-1	12 to 5	nvelope) 5-2-4,)						
SLIDER BRACING	Right 2x4 W	W Stud -	2-9-2			Exterior(18-8-4, I	(2R) 5 Exteri	-2-4 to 10-2-4 or(2E) 18-8-4	4, Interior (1) to 21-2-4, E	10-2-4 xterior	1 to (2R)							
TOP CHORD	Structural wo	od shea	athing directly	y applied	l or	21-2-4 to cantileve	o 26-1 er left	-9, Interior (1 and right exp) 26-1-9 to 3 osed ; end v	6-9-8 z ertical	zone; left and							
	2-0-0 oc pur	lins (2-7-	-3 max.): 2-4	, 5-7.	u	right exp	osed	C-C for mem	bers and for er DOL=1.60	ces & I	MWFRS arip							
BOT CHORD	Rigid ceiling bracing.	directly	applied or 7-	2-11 00	2)	DOL=1.6	60 adag	uato drainago	to provent y	votor p	onding							
WEBS REACTIONS	1 Row at mid (size) 12	dpt 2=0-5-8,	4-18 21= Mechar	nical	4)	This trus	s has	been design	ed for a 10.0) psf bc	ottom							
	Max Horiz 21 Max Unlift 12	=-125 (l =-300 (l	LC 13) LC 9) 21=-2	63 (I C 8	5)	Bearings	s are	assumed to b	e:, Joint 12	SPF N	o.2 .	•						
	Max Grav 12	2=1493 ((LC 1), 21=14	427 (LC	/ 6) 1) 7)	Refer to Provide	girde mech	r(s) for truss t anical conneo	to truss conr	ections ers) of t	s. truss to							
FORCES	(lb) - Maximu Tension	um Com	pression/Ma	ximum		bearing 12 and 2	plate 263 lb	capable of wit	thstanding 3 21.	00 lb u	plift at jo	int						
TOP CHORD	1-2=-739/17 3-4=-4343/1	3, 2-3=-7 050, 4-5	712/176, =-2972/763,		8)	This trus	s is d onal F	esigned in ac	cordance wi	th the 2 R502	2018 11 1 and							
	5-6=-2758/7	58, 6-7=	-2675/744,		0)	R802.10	0.2 an	d referenced	standard AN	SI/TPI	1.						ADD	
	10-12=-3183	6, 6, 10 6/785, 12	2-13=-4/0,		9)	or the or	ienta	ion of the pur	lin along the	top an	id/or	3				F OF	MISS	
BOT CHORD	20-21=-1493/	311 41, 19-2	0=-592/2796	i,	L	bottom c DAD CASE	chord. E (S)	Standard							B	NA SCOT	N T	6
	18-19=-904/- 16-17=-102/	4263, 17 0, 6-17=	7-18=-524/26 ⊢117/225,	672,			. ,								R	SEV SEV	TER Y	N.
	15-16=-56/2 12-14=-659/2	53, 14-1 2883	5=-599/2701	,											8*	1		- 11
WEBS	2-20=-8/94,	4-19=-7 ⁴	11/273, 4-18 -132/316	=-1614/3	94,										8-	Bratter	Service	- A
	15-17=-550/2	2837, 7-	17=-360/177	3,											A.	PE-200	1018807	A
	7-15=-1496/ 3-19=-382/1	348, 1-2 733, 3-2	0=-307/1458	, ,											Y	192A	- NOT	1
NOTES	8-15=-620/2	15, 8-14	=-7/299, 10-	14=-133/	/154											ON/	AL EL	
																Decembe	er 27,2024	



					RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	A6	Roof Special	1 1	Job Reference (optional	R85979601 LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Denv	rer, CO - 80221,	Run: 8.83 S ID:2mcZvJVm	Dec 4 2024 Print: 8.830 S I 61hl1uHjtts?rjzDuol-RfC?F	Dec 4 2024 MiTek Industries, Inc. F PsB70Hq3NSgPqnL8w3uITXbGKWr	Dec 27 1249 46/07/29:25
	-0-11-0 + 4-8-4 0-11-0 	8-6-12 13-2-0 3-10-8 4-7-5	17-10-8 4-8-7 31-10-8	22-6-15 27-1- 4-8-7 4-6-	32-9-8 10 31-10-8 11 4-8-14 0-11-0
$\begin{array}{c c} & 5-4-0 \\ & 2-2-12 \\ \hline & 2-1-3 \\ & 2-1-3 \\ & 0-1-9 \\ \hline & 0-1-9 \\ \hline & 0-8-0 \\ \hline & 0 \end{array}$	$ \begin{array}{c} 4^{12} \\ 4^{1$	5x6 = 6x10 = 6x10 = 7x10 = 7	4x6 7 x6 = 15 14 4x6 = 3x8	5= 3x4= 8 7 7 8 7 8 7 8 7 7 8 7 8 7 7 8 7 7 8 7 7 8 7 7 7 7 8 7	2x4 ¢ 921 3x8 ° 10 11 12 5x8 =
Scale = 1:60.7 Plate Offsets (X_Y): [2:0-0-	4-6-8 4-6-8	8-8-8 10-11-12 4-2-0 2-3-4	17-10-8 6-10-12	24-9-4 6-10-12	31-10-8 7-1-4

Loading	(r	psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	2	5.0	Plate Grip DOL	1.15		тс	0.97	Vert(LL)	-0.35	14-16	>999	240	MT20	197/144
TCDL	1	0.0	Lumber DOL	1.15		BC	0.88	Vert(CT)	-0.65	14-16	>588	180		
BCLL		0.0	Rep Stress Incr	YES		WB	0.71	Horz(CT)	0.16	11	n/a	n/a		
BCDL	1	0.0	Code	IRC2018	B/TPI2014	Matrix-S							Weight: 124 lb	FT = 20%
				2)	Wind [.] ASCE	7-16: Vult=115mph	(3-sec	cond gust)						
TOP CHORD	2x4 SPF No 2	*Excer	ot* 1-4·2x4 SPF 1650F	=	Vasd=91mph	; TCDL=6.0psf; BC	DL=6.0	Opsf; h=35ft;						
	1.5E	EXCO			Ke=1.00; Ca	II; Exp C; Enclose	d; MW	FRS (envelo	pe)					
BOT CHORD	2x4 SPF 1650 No.2)F 1.5E	*Except* 15-11:2x4 S	PF	exterior zone Interior (1) 4-	and C-C Exterior(2 1-0 to 4-8-4, Exterior	2E) -0-1 or(2E)	1-0 to 4-1-0, 4-8-4 to 8-6-1	12,					
WEBS	2x4 SPF No.2				Interior (1) 8-	6-12 to 17-10-8, Ex	terior(2	2R) 17-10-8 t	0					
SLIDER	Left 2x4 SPF N	No.2	2-4-9, Right 2x4 WW		22-6-15, Inte	rior (1) 22-6-15 to 3	2-9-8 z	one; cantilev	er					
	Stud 2-5-2		-		left and right	exposed ; end verti	cal left	and right						
BRACING					exposed;C-C	for members and f	orces a	& MWERS to	r					
TOP CHORD	Structural woo	od shea	athing directly applied	or	POL -1 60	wn; Lumber DOL=	1.60 pi	ate grip						
	1-11-5 oc purl	ins, ex	cept	3)	Provide adec	ulate drainage to pr	event v	water pondin	n					
	2-0-0 oc purlin	ns (2-0-	-14 max.): 4-5.	4)	This truss ha	s been designed fo	r a 10 () psf bottom	g.					
BOT CHORD	Rigid celling a	lirectly	applied or 6-8-13 oc	.,	chord live loa	d nonconcurrent wi	ith anv	other live loa	ids.					
REACTIONS		E 0 1	1_0 5 9	5)	Bearings are	assumed to be: Joi	int 2 Śl	PF 1650F 1.5	Е,					
REACTIONS	(SIZE) Z=0 Max Horiz 2-0	0/ /I C	1=0-5-0		Joint 11 SPF	No.2 .								
	Max I Inlift 2	308 (10	(17) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	6)	Provide mecl	nanical connection	(by oth	ers) of truss t	to					
	Max Grav 2=1	498 (I	C(1) = 11 = 1498 (IC(1))		bearing plate	capable of withstar	nding 3	08 lb uplift at	t joint					
FORCES	(lb) - Maximun	n Com	oression/Maximum	7)	2 and 277 lb	uplift at joint 11.		ith the 2019						
TOROLO	Tension		pression/maximum	()	International	Residential Code s	arice w	R502 11 1 2	nd					
TOP CHORD	1-2=-4/0, 2-4=	-3300/	844, 4-5=-4870/1250,		R802 10 2 ar	nd referenced stand	lard AN	ISI/TPI 1	inu					
	5-6=-4059/100	06, 6-7	=-2458/652,	8)	Graphical pu	rlin representation of	does no	ot depict the s	size					
	7-8=-2460/645	5, 8-9=·	-3045/719,	- /	or the orienta	tion of the purlin al	ong the	top and/or						~
	9-11=-3188/77	77, 11-	12=-4/0		bottom chord	l. ·	0						A	De
BOT CHORD	2-18=-726/301	11, 17-	18=-731/3006,	LC	DAD CASE(S)	Standard							B CF OF M	11SS D
	16-17=-1141/4	4786, 1	4-16=-705/3215,									4		NUS
	13-14=-594/27	153, 11	-13=-654/2885	20								H	SCOTT	M
WEBS	4-18=0/169, 4	-1/=-4	/ 2/2035, 5-17=-837/22 41100/360	20,								R	SEVI	FR VV
	6-16=-217/106	67 5-10	4= 1133/300, 6=-1281/404									84		Ĩ \★ X
	8-14=-650/223	3, 8-13	=0/266, 9-13=-114/147	7								ax	h at the	
NOTES													an -	Elerner
1) Unbalance	ed roof live loads	s have	been considered for									AL.	NUM	
this design	1.											N.	OX PE-20010	18807 / 2 4
Ū												V	- A	154
													ASION.	ENCH
													WNA	L

TESSIONA. December 27,2024





														RELEASE	FOR CO	NSTRUCTION
Job		Truss			Truss Ty	be		Qt	/	Ply	Clayton Bu	uilder-P24	10989	AS NOTE	D FOR P V 11th DPMENT	
241089-A		A7			Roof Sp	ecial		1		1	Job Refere	ence (onti	ionali	LEE'S S	R859	MISSOURI
Direct Lumber of	f Colorado, Denv	er, CO - 8	80221,				Run: 8.8	3 S Dec 4 2024	Print: 8.83	30 S Dec 4	2024 MiTek li	ndustries, I	Inc. Fi	Dec 27 12 46 46)7/	2025
							ID:hLsX	_EryHxLB0L?I4Tu	oWrzDur	nr-RfC?PsB	70Hq3NSgPq	nL8w3ulTX	(bGK)	/rCDoi734ZJC?f		2020
		-0-11-(0	6.9.4		10 0 10		47 40 0			25.0.7	,		24.40.0		32-9-8
		⊢ +		6-8-4		3-10-8		7-3-12			7-2-0		-+-	6-10-8	1	
		0-11-0)					31-	10-8							0-11-0
		F														
										4x10=						
т -	т								_	6						
4-0	4			12 4	0.40		0.40	18				19	3x4.			
-12	o م م			3x4 ≠	6x6 P 4	-	5						7	• •	3x4 ≈	
5-4- 2-10			3x4 ≠	3 17			Ħ S	<u> </u>					-	20 8	=	
6-6-0		, 2	16	-										THE		9 10
					6		<u> </u>		\rightarrow						4	
	0	tz 6	⊠ 3x6 ∎		15		14		13	12			11			☆ 6x6 u
					2x4	I	3x8=	M18A	HS 4x10	= 4x10=			2x4	I		
				6-6-8		10-8-8		17-10-8			25-0-7			31-10-8	1	
Scalo - 1:60 7		ŀ		6-6-8		4-2-0		7-2-0		-	7-2-0		-+-	6-10-0		
Plate Offsets (X, Y): [2:0-3-1	3,0-1-5]	, [5:0-4-12	,Edge], [9:0)-3-13,0-1	-5], [14:0-3-8	,0-1-8]									
Loading		(nsf)	Spacing		2-0-0		CSI		DEFL		in (loc)	l/defl	l /d	PLATES	GRIP	
TCLL (roof)		25.0	Plate Gri	p DOL	1.15		TC	0.94	Vert(L	L) -0	31 12-14	>999	240	MT20	197/14	4
BCLL		0.0	Rep Stre	ss Incr	YES		WB	0.77	Horz(C	-0. CT) 0.	16 12-14	>637 n/a	180 n/a	MIBAHS	142/13	6
BCDL		10.0	Code		IRC2018/	TPI2014	Matrix-S							Weight: 119 lb	FT = 2	0%
			·		2)	Wind: ASCE	7-16; Vult	=115mph (3-sec	cond gue	st)						
TOP CHORD	2x4 SPF 165 No.2	0F 1.5E	"Except" 4	4-5:2x4 SP	F	Ke=1.00; Ca	it. II; Exp C	; Enclosed; MW	FRS (er	nvelope)						
BOT CHORD WEBS	2x4 SPF 165 2x4 SPF No.	50F 1.5E 2				exterior zone Interior (1) 4	e and C-C I -1-0 to 6-8-	=xterior(2E) -0-1 4, Exterior(2E)	1-0 to 4 6-8-4 to	1-1-0, 10-6-12,						
SLIDER	Left 2x4 WW	Stud	3-4-11, Ri	ght 2x4 WV	V	Interior (1) 1 22-10-8 Inte	0-6-12 to 1	7-10-8, Exterior	(2R) 17-	-10-8 to						
BRACING	5100 5-0-9					left and right	exposed ;	end vertical left	and right	ht S for						
TOP CHORD	Structural wo	ood shea	athing dire	ctly applied	,	reactions sh	own; Lumb	er DOL=1.60 pl	ate grip	3 101						
	2-0-0 oc purl	lins (2-6-	-10 max.):	4-5. 7 5 4 oc	3)	DOL=1.60 Provide ade	quate drain	age to prevent	water po	onding.						
	bracing.			7-5-4 00	4)	All plates are	MT20 pla	tes unless other	wise inc	dicated.						
REACTIONS	1 Row at mic (size) 2=	ıpt ⊧0-5-8, 9	5-12)=0-5-8		0)	chord live lo	ad noncond	current with any	other liv	/e loads.						
	Max Horiz 2=	-94 (LC	13)		6) 7)	All bearings Provide med	are assum hanical cor	nection (by oth	ers) of t	russ to						
	Max Grav 2=	=1498 (L	.C 1), 9=-27	98 (LC 1)		bearing plate 2 and 276 lb	e capable o uplift at ioi	f withstanding 3 nt 9.	608 lb up	olift at join	t					
FORCES	(lb) - Maximu Tension	um Com	pression/N	laximum	8)	This truss is	designed in	n accordance w	ith the 2	2018						
TOP CHORD	1-2=-4/0, 2-4	l=-3267/	831, 4-5=-	4099/1072	,	R802.10.2 a	nd reference	code sections	ISI/TPI	1. 1 anu 1.						
	5-6=-2513/60	64, 6-7= 75, 9-10	-2505/655 =-4/0	,	9)	Graphical pu or the orienta	Irlin represe ation of the	entation does no purlin along the	ot depict	t the size d/or				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
BOT CHORD	2-15=-695/29 12-14=-939/4	979, 14- 4042 <i>,</i> 11	15=-699/2	974, 2967.		bottom chore	d. Stondor							OF M	IISA	<i>b</i>
	9-11=-657/29	967	00/4005 5		LO	AD CASE(S)	Standard	1					4	THE	-05	Risc
VVEBO	4-15=0/203, 5-12=-1866/	4-14=-3 522, 6-1	2=-166/10	-14=-602/2 35,	.33,								A	SCOTT	M.	12-8
NOTES	7-12=-818/2	70, 7-11	=0/273										8.	A SEVI	±R	1+8
1) Unbalance	ed roof live load	ds have	been cons	idered for									Ø		المر ا	h
this desigr	1.											-	R -	NUME	E.	TEA
													N.	PE-20010	18807	12A
													X	SSION	EN	S'E
														Car	-	4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

400 Sunrise Ave., Suite 270 Roseville, CA 95661 916.755.3571 / MITek-US.com

December 27,2024

											RELEASE FOR C	ONSTRUCTION
Job	Truss		Truss T	Гуре				Qty	Ply	Clayton Builder-P24098	AS NOTED FOR -Lot 209- 2750 SW 11th DEVELOPMEN	PLAN REVIEW
241089-A	A8		Roof S	Special				1	1	Job Reference (optional	LEE'S SUMMI	5979603 T, MISSOURI
Direct Lumber of Colorado, Denv	ver, CO - 80221,					Run: 8.83 ID:pxF9_	S Dec 420 wqmCqYhEo)24 Print: 8. hsK_rolwz[830 S Dec 4 Duma-RfC?Ps	2024 MiTek Industries, Inc. F sB70Hq3NSgPqnL8w3uITXbG	i Dec 27 12 46 46 07 (WrCDofro4z.5C?f	/2025
	-0-11-0 0-11-0	<u>4-11-6</u> 4-11-6		<u>8-8-4</u> 3-8-14		<u>12-6-12</u> 3-10-8		<u>17-10-8</u> 5-3-12		24-6-12 6-8-4	<u>31-10-8</u> 7-3-12	32-9-8 0-11-0
	 							31-10	-8			
									4x10= 7			
6-12 -1-9 -1-9-4			4 ¹² 2x4 ≈	-1-9 H	6x6=	X	6x10=			20 ^{3×}	4≈ 8 3x4≈	

5-4-0	0 3-5-3 3-5-3	-8-0	3x8 = 18 4 3 17 4 1 2						x4:
		0	⊠ 5∨9 -	16	15	14	13	12	
			5x6=	3x4=	3x4=	4x6=	3x8=	2x4 II	

		L	8-6-8		12-8-8	1	7-10-8	1	24-6	-12		31-1	0-8	4
Scale = 1:60 7		Ι	8-6-8	I	4-2-0	I	5-2-0	1	6-8	-4	I	7-3-	12	1
Plate Offsets	(X, Y): [2:0-0-5,0-3-5],	[6:0-4-12,Edge], [1	0:0-3-13,0-	1-5]										
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	8/TPI2014	CSI TC BC WB Matrix-S	0.84 0.90 0.86	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.27 -0.49 0.16	(loc) 13-15 13-15 10	l/defl >999 >774 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 124 lb	GRIP 197/144 FT = 20%	
LUMBER TOP CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalanc this desig	2x4 SPF No.2 *Exce 1.5E 2x4 SPF No.2 Left 2x4 SPF No.2 Left 2x4 WW Stud No.2 4-0-8 Structural wood sher 2-0 oc purlins, exc 2-0 oc purlins (2- Rigid ceiling directly bracing. (size) 2=0-5-8, 1 Max Horiz 2=-94 (LC Max Uplift 2=-308 (L- Max Grav 2=1498 (L (b) - Maximum Com Tension 1-2=-4/0, 2-4=-3166, 5-6=-3460/941, 6-7 -7-8=-2483/666, 8-10 2-16=-735/2865, 15- 13-15=-786/3417, 12 10-12=-657/2945 5-16=0/243, 5-15=-2 7-13=-218/1122, 6-1 8-13=-808/259, 8-12 ed roof live loads have in.	pt* 7-11:2x4 SPF 11 2-6-5, Right 2x4 SF athing directly applie ept 1-4 max.): 5-6. applied or 6-8-3 oc 0=0-5-8 17) C 8), 10=-274 (LC S C 1), 10=1498 (LC pression/Maximum /857, 4-5=-3048/79(-2477/681, =-3223/779, 10-11= 16=-628/2867, 2-13=-657/2945, 13/728, 6-15=-399/ 3=-1347/395, =0/289, 4-16=-55/1 been considered fo	2) 650F PF ed or 3) 4) 5) 6) 1) 7) 0, 8) 4/0 171, 40 r	Wind: ASCE Vasd=91mpl Ke=1.00; Car exterior zone Interior (1) 42 Interior (1) 12 22-10-8, Inte left and right exposed;C-C reactions sho DOL=1.60 Provide adec This truss ha chord live loa All bearings a Provide mecl bearing plate 2 and 274 lb This truss is International R802.10.2 ar Graphical pu or the orienta bottom chorc DAD CASE(S)	7-16; Vult=1 n; TCDL=6.0; t. II; Exp C; E and C-C Exi 1-0 to 8-8-4, 2-6-12 to 17- rior (1) 22-10 exposed ; er c for members own; Lumber quate drainag ad nonconcur e capable of v uplift at joint designed in a Residential C dn referenced rlin represent ation of the pu l. Standard	15mph (3-s psf; BCDL= inclosed; M terior(2E) - C Exterior(2E) - A to 32-9- d vertical le s and forces DOL=1.60 ye to preven ined for a 10 rent with ar to be SPF ection (by o vithstanding 10. accordance Code sectio d standard / tation does urlin along t	econd gust) 3.0psf; h=35ft; WFRS (envelo -11-0 to 4-1-0) 8-8-4 to 12-6 iz zone; cantile ff and right a MWFRS fc olate grip t water pondir 0.0 psf bottom y other live lo No.2. thers) of truss 308 lb uplift a with the 2018 hs R502.11.1 INSI/TPI 1. not depict the he top and/or	ppe) , 5-12, 8 to ver ng. ads. to at joint and size				STATE OF M SCOT SEVI NUM PE-2001	MISSOLUTION FM. ER DISSOUTION L ENGINE	

TESSION A December 27,2024 MiTek[®] 400 Sunrise Ave., Suite 270

Roseville, CA 95661 916.755.3571 / MiTek-US.com

10 11 3xe

6x6 II

									RELEASE	FOR CONSTRUCTION
Job	Truss	Truss	Туре		Qty	Ply	Clayton Bu	uilder-P24098	AS NOTE Lot 209- 2750 S	D FOR PLAN REVIEW W 11th Terr DPMENT SERVICES
241089-A	A10	Roof	Special		1	1	Job Refere	ence (optional	LEE'S	R85979604 SUMMIT, MISSOURI
Direct Lumber of Colora	do, Denver, CO - 80221,		R	un: 8.82 E Sep 2	5 2024 Print:	3.820 E Sep	25 2024 MiTek	Industries, Inc. I	ri Dec 2 12:33:08	07/2025
	3-2-14 6-2 3-2-14 2-1	2-4 1-6	12-8-4 6-6-0	<u>16-3-12</u> 16 3-7-8 0	17-10-8 -6-12 -3-0 1-3-12 3x4 = 4x4 ≈		<u>25-4-8</u> 7-6-0		<u>31-10-8</u> 6-6-0	32-9-8 0-11-0
$\begin{array}{c c} & & & & \\ & & & & \\ & & & & \\ & & & & $	$2x4 \parallel 4x10 =$ $2x4 \parallel 4x10 =$ 9 $4x10 =$	M18AHS 4x10 = 20 3 1 18 4x10=	4x10 4 ¹² 0 4 4 4 4 4 4 4 4 4 4 4 4 4	0= 3	x4 = 7 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4x10= 8 14 5x12=	22	3x4z 9 13 2x4 II	3 23 10	x4 = 11 12 0 5x8=
(Scale = 1:63.7	0-1-12 6-4-0		12-6-8 6-2-8	<u>16-2-0</u> 3-7-8	19-6-6 3-4-6		<u>25-4-8</u> 5-10-1		<u>31-10-8</u> 6-6-0	
Plate Offsets (X, Y):	[3:0-4-12,Edge], [7:0-2-0	,Edge], [8:0-7-8,0-2	2-0], [11:0-0-5,0-3-5],	[16:0-7-12,0-3-	0], [18:0-3-8	,0-2-0], [19	9:0-6-8,0-2-0]			
Loading TCLL (roof) TCDL BCLL BCDL	(psf) Spacin 25.0 Plate G 10.0 Lumber 0.0 Rep Str 10.0 Code	g 2-0-0 rip DOL 1.15 DOL 1.15 ess Incr YES IRC20	CS TC BC WE 118/TPI2014 Ma	trix-S	0.91 Veri 0.91 Veri 0.70 Hor	:L (LL) -((CT) -(z(CT) (in (loc) 0.37 17-18 0.68 17-18 0.19 11	l/defl L/d >999 240 >561 180 n/a n/a	PLATES MT20 M18AHS Weight: 135 lb	GRIP 197/144 142/136 FT = 20%
LUMBER TOP CHORD 2x4 \$ 1.5E BOT CHORD 2x4 \$ 1650 WEBS 2x4 \$ SLIDER Righ BRACING TOP CHORD Structor (2-2- BOT CHORD Rigit BOT CHORD Rigit WEBS 1 Ro REACTIONS (Ib/size Max H Max U FORCES (Ib) - TOP CHORD 1-19 3-200 4-21: 5-6= 7-8= 9-22: 10-2: 10-2: BOT CHORD 18-1: 16-16 13-1: WEBS 3-18: 4-17: 14-11: 9-14: NOTES	SPF No.2 *Except* 3-4:2x SPF No.2 *Except* 19-16 F 1.5E SPF No.2 t 2x4 WW Stud 3-4-7 ctural wood sheathing dire pt end verticals, and 2-0- 15 max.): 1-3, 4-8. d ceiling directly applied o ing. w at midpt 3-17 e) 11=1493/0-5-8, 19= Mechanical loriz 19=-122 (LC 13) plift 11=-271 (LC 9), 19: Maximum Compression/ ion =-129/68, 1-2=-113/38, 2 =-5209/1288, 3-21=-3385 =-3329/880, 4-5=-3146/8 -3278/913, 6-8=-3128/92' -211/57, 8-22=-2595/727 =-2645/713, 9-23=-3137/ 3=-3155/777, 10-11=-322 2=-4/0 9=-693/2954, 17-18=-114 7=-724/3285, 15-16=-04 =-308/132, 14-15=-37/14; 4=-671/2937, 11-13=-671 =-873/301, 3-17=-2017/4 =-527/2434, 2-19=-3117/ =-618/205, 9-13=0/251	4 SPF 1650F 22x4 SPF ectly applied, 0 oc purlins r 2-2-0 oc =1427/ =-266 (LC 8) Maximum -20=-5211/1288, 5, 5, 790, 21/770, 43/5095, 1, 2937 88, 8-14=-449/163, 1241, 882,	 Onbalation Control of the design. Wind: ASCE 7-16 Vasd=91mph; TC Ke=1.00; Cat. II; I exterior zone and Interior (1) 5-1.12 16-6-12, Interior (17-10-8 to 22-10- cantilever left and right exposed; C-C for reactions show DOL=1.60 Provide adequate All plates are MT2 This truss has be chord live load no Bearings are assu crushing capacity Refer to girder(s) Provide mechanic bearing plate capa 11 and 266 lb upil This truss is desig International Resi R802.10.2 and re Graphical purlin rr or the orientation bottom chord. 	; Vult=115mph DL=6.0psf; BC Exp C; Enclose C-C Exterior(2 to 12-8-4, Extt 1) 16-6-12 to 1 8, Interior (1) 2 right exposed for members wn; Lumber DC drainage to pr 20 plates unles en designed for nconcurrent wi med to be: , Ja of 425 psi. for truss to trus al connection of able of withstar ft at joint 19. Ined in accords ferenced stand epresentation c of the purlin alcond ndard	(3-second g DL=6.0psf; d; MWFRS E) 0-1-12 to prior(2E) 12- 7-10-8, Exte 2-10-8, Ext	gust) h=35ft; (envelope) 5-1-12, 8-4 to rior(2R) -9-8 zone; al left and MWFRS grip ponding. indicated. bottom live loads. No.2 ns. f truss to uplift at joi 2 2018 2.11.1 and P11. ict the size and/or	nt		STATE OF M SCOTT SEVI PE-20010 PE-20010 December	MISSOLUTION M. ER JER JISB07 JER JISD07 JER JISB07 JER JISB07 JER JISB07 JER JISD07 JER

st.org) Mille Ave., Suite 270 Roseville, CA 95661 916.755.3571 / MITek-US.com

														RELEASE	FOR CONSTRUCTION	
Job		Truss		Truss Ty	pe		Qty		Ply	Cla	ayton Bu	ilder-P2	40989	AS NOTE Lot 209- 2750 S	D FOR PLAN REVIEW	٦
241089-A		A9		Roof Sp	pecial		1		1	Job	Refere	nce (op	tional	LEE'S	R85979605 SUMMIT, MISSOURI	
Direct Lumber of	f Colorado, Denv	er, CO - 8	0221,			Run: 8.83 S Dec 4	2024 P	rint: 8.8	30 S Dec	4 2024 PsB70	MiTek Ir	dustries,	Inc. Fli	Dec 27 12 46 47)7/2025	5
			4-2-4 7- 4-2-4 3	5-11 -3-7	<u>10-8-4</u> 3-2-9	<u>14-6-12</u> 16-3-1 3-10-8 1-9-(31-7	17-1 12 1-6- 10-8	0-8	<u>22-6-1</u> 4-8-7	5	-	<u>27-3-15</u> 4-9-0	5	<u>31-10-8</u> 4-6-9	32-9-8 → <mark>↓</mark> →↓ 0-11-0 →	
5-4-0	$\begin{array}{c} 2 - 0 - 12 \\ 2 - 0 - 12 \\ 1 - 1 - 4 - 1 - 3 \\ 1 - 0 - 7 \\ 1 - 0 - 1 - 9 \\ 1 - 0 - 1 - 9 \end{array}$	4x4 = 19 M18AHS	M18AHS 12x10	4^{12} $4x6_{2}$ 3	4x6 	= 6x8= 5 5 15 10x12=	2x4 II 6 16 2x4 II	8x8= 7 14 6x10=			3x4= 8	13 3x4=	2	21 3x8= 9 21 3x8= 10	11 12 0 ₩ 5x8=	
Scale = 1:63.7		0-1-12 ╟── 0-1-12	4-0-8 3-10-12	<u>10-6-8</u> 6-6-0	3	<u>16-2-0</u> 5-7-8	17-10 -8-	0-8 -8	<u>2</u> 4 7	<u>4-11-7</u> -0-15	7			<u>31-10-8</u> 6-11-1		
Plate Offsets (X, Y): [2:0-9-1	I2,Edge]	, [11:0-0-5,0-3-5], [1	9:0-10-8,0-	2-8]											_
Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	/TPI2014	CSI TC (BC (WB (Matrix-S	0.87 0.93 0.80	DEFL Vert(L Vert(C Horz(C	L) -0 :T) -0 CT) 0	in).50).92).21	(loc) 17-18 17-18 11	l/defl >769 >414 n/a	L/d 240 180 n/a	PLATES MT20 M18AHS Weight: 134 lb	GRIP 197/144 142/136 FT = 20%	_
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this design	2x4 SPF No. 1.5E 2x4 SPF No. 2100F 1.8E 2x4 SPF No. Right 2x4 W Structural ww 2-0-11 oc pur Rigid ceiling bracing. 1 Row at min (size) 11 Max Horiz 19 Max Uplift 11 Max Grav 11 (lb) - Maximu Tension 1-19=-222/11 2-3=-6535/1 4-5=-3570/9 6-7=-3344/9 8-9=-3036/7 18-19=-1375 16-17=-887/ 6-16=-34/13 13-14=-623/ 2-19=-5610/ 5-16=-13371 3-14=-63/2 5-17=-433/11 3-17=-875/3 ed roof live load	2 *Excel 2 *Excel 2 W Stud - bod shea urlins, ex linis (2-8- directly directly directly =0-5-8, 9=-120 (I =-274 (I =-274 (I =-274 (I =-274 (I =-274 (I =-274 (I =-274 (I =-274 (I =-274 (I) =-274 (I	pt* 2-4:2x4 SPF 165 pt* 19-16:2x4 SPF 2-3-14 athing directly applie ccept end verticals, a -14 max.): 1-2, 4-5. applied or 2-2-0 oc 2-19 19= Mechanical _C 13) _C 9), 19=-265 (LC & LC 1), 19=1427 (LC pression/Maximum -486/133, =-3817/975, -3458/923, -2445/676, =-3171/784, 11-12=- 7-18=-1010/4349, i-16=-61/0, =-62/167, -13=-667/2868 17=-159/894, 6=-458/2469, =0/274, 9-13=-108/1 =-1115/359, =-493/2109 been considered for	2) DF d or nd 3) 4) 5) 6) 7) 8) 9) 10) 4/0 LO	Wind: ASCE Vasd=91mph Ke=1.00; Cat exterior zone Interior (1) 4- 14-6-12, Intei 17-10-8 to 22 cantilever left right exposed for reactions DOL=1.60 Provide adeq All plates are This truss ha chord live loa Bearings are Refer to girde Provide mect bearing plate 11 and 265 lt This truss is of International R802.10.2 ar Graphical pui or the orienta bottom chord AD CASE(S)	7-16; Vult=115mph (; TCDL=6.0psf; BCD .II; Exp C; Enclosed and C-C Exterior(2E 2-4 to 10-8-4, Exterior for (1) 14-6-12 to 17. -6-15, Interior (1) 22 and right exposed ; ;C-C for members at shown; Lumber DOL uate drainage to pre MT20 plates unless s been designed for a d nonconcurrent with assumed to be: , Joi r(s) for truss to truss nanical connection (b capable of withstanco uplift at joint 19. designed in accordar Residential Code sed d referenced standa fin representation do tion of the purlin alor Standard	3-secc JL=6.0 ; MWf) 0-1- or(2E) 10-8, -6-15 end vor end ford =1.60 vent w othen a 10.00 vent w othen a 10.00 vent w othen a 20.00 pothen y othen or y othen or or or or or or or or or or	ond gus psf; h= FRS (et al. 12 to 4 10-8-4 Exterior to 32-9 ertical I ces & N plate g vater pc vise inc psf boo ections rs) of t 74 Ib up th the 2 R502.11 t depict top and	st) 35ft; hvelope) -2-4, to pr(2R) -8 zone; eft and MWFRS rrip onding. dicated. ttom ve loads. 0.2. russ to oblift at join 2018 1.1 and 1. the size d/or	nt		~		STATE OF M SCOTT SEVI SEVI NUME PE-20010 PE-20010	AISSOLUT M. ER DISSO7 L ENGINE	7

December 27,2024



							RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J13	Jack-Closed Girder		1	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Denv	ver, CO - 80221,		Run: 8.83 S Dec 4 2	024 Print: 8.8	330 S Dec 4	2024 MiTek Industries, Inc. F	Dec 27 12 46 56 07 2 9 10 5

ID:IF2X84tDX90jfxwFsa?tDgzDusz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J4zwC?I/U//2020





Special



Scale = 1:26.7

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.50	Vert(LL)	-0.01	1-3	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.37	Vert(CT)	-0.01	1-3	>999	180		
BCLL	0.0	Rep Stress Incr	NO		WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P							Weight: 9 lb	FT = 20%
LUMBER			7)	Hanger(s) or	other connection	device(s) shall be						
TOP CHORD	2x4 SPF No.2			provided suff	icient to support c	oncentra	ted load(s) 1	244					
BOT CHORD	2x6 SPF 2100F 1.8E			lb down and	249 lb up at 0-9-0) on bott	om chord. Th	he					
WEBS	2x4 SPF No.2			design/select	ion of such conne	ection de	vice(s) is the						
BRACING				responsibility	of others.								
TOP CHORD	Structural wood she	athing directly applie	d or ⁸⁾	In the LOAD of the truss a	CASE(S) section, re noted as front (loads a (F) or ba	oplied to the t ck (B).	face					
BOT CHORD	2-8-4 oc purlins, exe Rigid ceiling directly	cept end verticals. applied or 10-0-0 oc	LC	DAD CASE(S)	Standard	(.) 0. 54							
	bracing.		1)	Dead + Roo	of Live (balanced):	Lumber	Increase=1.	15,					
REACTIONS	(size) 1=0-5-8, 3	B= Mechanical		Plate Increa	Ise=1.15								
	Max Horiz 1=54 (LC	9)		Uniform Loa	ads (ID/ft)								
	Max Uplift 1=-210 (L	C 8), 3=-85 (LC 12)		Vert: 1-2	=-70, 1-3=-20								
	Max Grav 1=1068 (L	.C 1), 3=384 (LC 1)		Concentrate									
FORCES	(lb) - Maximum Com Tension	pression/Maximum		vent: 4=-	1244 (В)								
TOP CHORD	1-2=-80/53, 2-3=-10	6/123											
BOT CHORD	1-3=-23/25												
NOTES													
1) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)											
Vasd=91r	nph; TCDL=6.0psf; BC	DL=6.0psf; h=35ft;											
Ke=1.00;	Cat. II; Exp C; Enclose	d; MWFRS (envelop	e)										
exterior zo	one and C-C Exterior(2	E) zone; cantilever le	eft										
and right	exposed ; end vertical I	eft and right exposed	d;C-										
C for men	nbers and forces & MW	FRS for reactions											
shown; Lu	umber DOL=1.60 plate	grip DOL=1.60										OF	ALC D
2) This truss	has been designed for	a 10.0 psf bottom									4	TEUTT	NOSCH Star
chord live	load nonconcurrent wi	th any other live load	ls.								B	AN SCOT	M S
3) Bearings	are assumed to be: Joi	nt 1 SPF 2100F 1.8E									R		
4) Refer to g	urder(s) for truss to tru	ss connections.									0.	SEVI	
5) Provide m	nechanical connection (by others) of truss to)								837		

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 1 and 85 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 27,2024



					RELEASE FOR CONSTRUCTION
Job Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A CG2	Detail Girder	1	1	Job Reference (optional	R85979607 LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Denver, CO - 80221	Run	8 83 S Dec 4 2024 Print: 8 8	30 S Dec. 4	2024 MiTek Industries Inc. F	

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Fi Dec 27 1246151/ 0 / / 260-25 ID:TAk7WEjBnZtB6AM4fWA8IWzDuIQ-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDoi1w4zJC?f



Scale = 1:17

Plate Offsets (X, Y): [2:0-2-6,0-0-3]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.21	Vert(LL)	-0.01	2-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.10	Vert(CT)	-0.01	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	NO		WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%
LUMBER			7)	In the LOAD	CASE(S) section	n, loads a	oplied to the	face					
TOP CHORD	2x4 SPF No.2			of the truss a	re noted as front	t (F) or ba	ck (B).						
BOT CHORD	2x4 SPF No.2		LC	DAD CASE(S)	Standard								
WEBS	2x4 SPF No.2		1)	Dead + Roo	of Live (balanced)): Lumber	Increase=1.	.15,					
SLIDER	Left 2x4 WW Stud	1-9-1		Plate Increa	ase=1.15								
BRACING				Uniform Loa	ads (lb/ft)								
TOP CHORD	Structural wood she	athing directly applie	ed or	Vert: 1-2	=-70								
	3-8-2 oc purlins, ex	cept end verticals.		Trapezoida	Loads (lb/ft)								
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or)	Vert: 2=0	(F=35, B=35)-to)-3=-30 (F	=20, B=20),	- 10					
	bracing.			3=-30 (F:	=20, B=20)-to-4=	-64 (F=3,	B=3), 2=0 (I	F=10,					
REACTIONS	(size) 2=0-7-6, 5	b= Mechanical		B=10)-10	-5=-10 (F=1, D=1)							
	Max Horiz 2=120 (LC	J 11)											
	Max Uplift 2=-156 (L	.C 10), 5=-82 (LC 16)										
	Max Grav 2=156 (LC	5 1), 5=81 (LC 1)											
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=-5/0, 2-4=-50/23	3, 4-5=-59/103											
BOT CHORD	2-5=-25/27												
NOTES													
1) Wind: AS Vasd=91r Ke=1.00; exterior z and right	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Corner (3 exposed ; end vertical	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop) zone; cantilever lef left and right expose	ee) t d;C-									Contraction of the	
C for men shown; Lu	nbers and forces & MW umber DOL=1.60 plate	/FRS for reactions grip DOL=1.60									B	TATE OF I	T M TA
2) This truss	has been designed for	r a 10.0 psf bottom									a	SEV	
2) Rearing	load nonconcurrent wi	th any other live load	ds.								6 *	1	1+1
 Dearings A) Refer to c 	are assumed to be: Jol	$III \ge SPF INU.2$.									W		
5) Provide r	nechanical connection ((by others) of truss to	C							4	<u>KOL</u>		Seven

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 5 and 156 lb uplift at joint 2.

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

December 27,2024

SSIONAL EN

PE-2001018807



400 Sunrise Ave., Suite 270 Roseville, CA 95661 916.755.3571 / MiTek-US.com

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J14	Jack-Open	1	1	Job Reference (optional	R85979608 LEE'S SUMMIT, MISSOURI
Discut local and Octored a Dece	00 00001	D., 0.000 D., 10				

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. F Dec 27 (1246)56 07/269:25 ID:Evhj8a672?P1RstvU4rKUgzDusg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKvrCDoi7.44JC+f





				F	2-	8-4	_					
Scale = 1:17.1				I			I					
Plate Offsets (X, Y):	[2:0-1-8,0-0-5]											
Loading	(psf)	Spacing Blate Grip DOI	2-0-0	CSI	0.12	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP

	()							()				
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.12	Vert(LL)	0.00	2-5	>999	240	MT20	169/123
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 9 lb	FT = 20%

LUMBER			LOAD CASE(S)	Standard
TOP CHORD	2x4 SPF I	No.2		
BOT CHORD	2x4 SPF I	No.2		
SLIDER	Left 2x4 V	VW Stud 1-5-12		
BRACING				
TOP CHORD	Structura	wood sheathing directly applied or		
	2-8-4 oc p	ourlins.		
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc		
	bracing.			
REACTIONS	(size)	2=0-5-8, 4= Mechanical, 5=		
		Mechanical		
	Max Horiz	2=52 (LC 12)		
	Max Uplift	2=-63 (LC 8), 4=-50 (LC 12)		
	Max Grav	2=193 (LC 1), 4=81 (LC 1), 5=52		
		(LC 3)		
FORCES	(lb) - Max	imum Compression/Maximum		
	Tension			
TOP CHORD	1-2=-4/0,	2-4=-54/28		
BOT CHORD	2-5=0/0			

1-6-12

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Bearings are assumed to be: , Joint 2 SPF No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 4 and 63 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





											- F	RELEASE	FOR CONSTRUCTION
Job	Truss		Truss Type			Qty	Ply	/ C	layton Bu	ilder-P2	40989-	AS NOTE Lot 209- 2750 S	D FOR PLAN REVIEW W 11th Terr OPMENT SERVICES
241089-A	B1		Hip Girder			1	3	Jo	ob Refere	nce (op	tional	LEE'S	R85979609 SUMMIT, MISSOURI
Direct Lumber of Colorad	lo, Denver, CO - 8	0221,		F	Run: 8.83 S Dec 4 D:Bb5QVthVwWM	4 2024 F 4UIIMJa	Print: 8.830 S Eo8lzDs?t-F	Dec 4 202 RfC?PsB70I	24 MiTek Ir Hq3NSgPq	ndustries, nL8w3ul	Inc. Fii TXbGKV	Dec 27 12 46 50 WrCDoi754zJC?	07/2025
			3-7-4		7-2-0		1	0-8-12			14-4-	0	
		I	3-7-4	I	3-6-12	ا 14-	: 4-0	3-6-12	I		3-7-4	4 1	
				Special	Special	Spe	cial	Special	Specia	al			
			12 4 Г	4x10 =		2:	K4 II		4x1	0 =			
	\pm			2	9				4 •	7			
	1-10-7 8-0											5	
	⊥ 6_		11	8	12	[_ 7	<u> </u>	13	6]		14	
		4x10) =	3x12 и		4x	:10 =		Зx	12 u		4x10 =	
			Special	Special	JUS24		JUS24	111524	Specia	al	S	pecial	
				Special	Special		Special	Special	Sp	ecial			
Scale = 1:29.1			3-5-8 3-5-8		7-2-0 3-8-8			<u>10-10-8</u> 3-8-8			14-4 3-5-	-0 ·8	
Plate Offsets (X, Y):	[1:Edge,0-0-12]	, [2:0-5-0,0-1-13], [4	4:0-5-0,0-1-13], [{	5:Edge,0-0-1	2]								
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CS TC BC W	61 22 8	0.64 0.46 0.28	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.14 -0.25 0.03	(loc) 7 7 5	l/defl >999 >660 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code	IRC2018/TPI2	014 Ma	atrix-S							Weight: 187 lb	FT = 20%
LUMBER TOP CHORD 2x4 S	PF No.2		4) Wind Vaso	d: ASCE 7-10 d=91mph; T(6; Vult=115mph CDL=6.0psf; BC	(3-sec DL=6.0	ond gust))psf; h=35f	t;	1) De Pla	ad + Ro ate Incre	of Live ase=1.	e (balanced): Lum .15	ber Increase=1.15,

- 2x8 SPF 1950F 1.7E BOT CHORD WEBS 2x4 SPF No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (5-2-11 max.): 2-4. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 1=0-5-8, 5=0-5-8 Max Horiz 1=-27 (LC 13) Max Uplift 1=-1258 (LC 8), 5=-1307 (LC 9)
- Max Grav
 1=5887 (LC 1), 5=5874 (LC 1)

 FORCES
 (lb) Maximum Compression/Maximum Tension

 TOP CHORD
 1-2=-12084/2814, 2-3=-13946/3314, 3-4=-13946/3314, 4-5=-12128/2893

 BOT CHORD
 1-8=-2539/11114, 7-8=-2480/10802,
- 6-7=-2547/10840, 5-6=-2612/11155

 WEBS
 2-8=-571/3040, 4-6=-628/3071, 4-7=-718/3391, 3-7=-222/210, 2-7=-790/3431

NOTES

 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-6-0 oc.

Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-5-0 oc.

- Web connected as follows: 2x4 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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

- Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
 All bearings are assumed to be SPF 1950F 1.7E .
- All bearings are assumed to be SPF 1950F 1.7E.
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1258 lb uplift at joint 1 and 1307 lb uplift at joint 5.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 5-3-0 from the left end to 9-2-0 to connect truss(es) to front face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.13) Hanger(s) or other connection device(s) shall be
- (a) narget(s) of other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 83 lb up at 3-7-4, 46 lb down and 83 lb up at 5-3-0, 46 lb down and 83 lb up at 7-2-0, and 70 lb down and 83 lb up at 10-8-12 on top chord, and 1407 lb down and 277 lb up at 1-3-0, 1407 lb down and 278 lb up at 3-3-0, 193 lb down and 56 lb up at 3-7-4, 193 lb down and 56 lb up at 10-8-0, and 1407 lb down and 313 lb up at 13-0-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Vert: 1-2=-70, 2-4=-70, 4-5=-70, 1-5=-20 Concentrated Loads (Ib) Vert: 4=-46 (F), 8=-1600 (F=-193, B=-1407), 6=-1600 (F=-193, B=-1407), 3=-46 (F), 7=-1422 (F=-15, B=-1407), 2e-46 (F), 9=-46 (F), 10=-46 (F), 11=-1407 (B), 12=-1422 (F=-15, B=-1407), 13=-1422 (F=-15, B=-1407), 14=-1407 (B)

Uniform Loads (lb/ft)





							RELEASE FOR CONSTRUCTION
	Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
	241089-A	J21	Jack-Open	5	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Ĩ	Direct Lumber of Colorado Denv	er CO - 80221	Run: 8.83 S. [Dec. 4 2024 Print: 8 8	30 S Dec. 4	2024 MiTek Industries Inc. F	

ber of Colorado, Denver, CO

ID:Bb5QVthVwWM4UIIMJaEo8IzDs?t-RfC?PsB70Hq3NSgPqnL8w3uITXbGfWrCDoi754zJc?



Scale = 1:18.3	
Plate Offsets (X, Y): [2:0-1-8,0-0-5]	

Loading		(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15	тс	0.23	Vert(LL)	-0.01	2-5	>999	240	MT20	169/123
TCDL		10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	2-5	>999	180		
BCLL		0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	4	n/a	n/a		
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%
			-	LOAD CASE(S)	Standard								
TOP CHORD	2x4 SPF	No.2			etandara								
BOT CHORD	2x4 SPF	No.2											
SLIDER	Left 2x4 V	WW Stud	1-11-1										
BRACING													
TOP CHORD	Structura	I wood shea	athing directly applie	ed or									
	3-7-4 oc	purlins.											
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 o	с									
	bracing.												
REACTIONS	(size)	2=0-5-8, 4	l= Mechanical, 5=										
	Marcellanda	Mechanic	al										
	Max Horiz	2=65 (LC	12)										
	Max Uplift	2=-65 (LU	8), 4=-68 (LC 12)	F 74									
	Max Grav	2=228 (LC	51), 4=116 (LC 1), 3	5=71									
FORCES	(lb) Mov	(LC 3)	proceion/Movimum										
FURCES	Tension	amum Com	pression/iviaximum										
TOP CHORD	1-2=-5/0,	2-4=-71/39											
BOT CHORD	2-5=0/0												
NOTES													
1) Wind: AS	CE 7-16; Vu	lt=115mph	(3-second gust)										
Vasd=91n	nph; TCDL=	6.0psf; BC	DL=6.0psf; h=35ft;										
Ke=1.00;	Cat. II; Exp	C; Enclose	d; MWFRS (envelop	pe)								000	TT
exterior zo	one and C-C	Exterior(2	E) zone; cantilever	left								OFA	ALC. A
and right e	exposed ; er	nd vertical I	ett and right expose	ed;C-								FIE	J. osci
C for men	nders and fo	rces & MW	THRS for reactions								6		

- shown; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Bearings are assumed to be: , Joint 2 SPF No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 68 lb uplift at joint 4 and 65 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





														RELI	EASE FOR COM	NSTRUCTION
Job	Tru	ISS		Truss Ty	ре		Q	ty	Ply	Cla	iyton Bui	lder-P24	10989-	AS Lot 209- 27	NOTED FOR PL 50 SW 11th T	AN REVIEW
241089-A	A1			Hip Girc	ler		1		2	Job	Referer	nce (opti	onal	L	R859 EE'S SUMMIT, I	79611 MISSOURI
Direct Lumber of Colo	rado, Denver, C	O - 80221,				Run: 8.83 S	Dec 4 2024	Print: 8.8	330 S Dec	4 2024	MiTek In	dustries, I	nc. Fii l	Dec 27 12 46	43/07/	2025
	-	0-11-0 0-11-0 	<u>5-2-4</u> 5-2-4		<u>11-0-3</u> 5-9-15	<u>3</u>		<u>16-11-1</u> 5-11-1 ⁻ <u>28-0-0</u>	<u>3</u> 1			<u>22-9-12</u> 5-9-15			<u>28-0-0</u> 5-2-4	28-11-0
$\begin{array}{c} + 2.4-12 \\ 2.4-12 \\ + 2.3.3 \\ - 2.3.3 \\ - 2.3.3 \\ - 2.3.3 \\ - 2.4.5 \\$		2 3x6=	4 ¹² 4 ¹⁶ 1-0	Specia 6x6= 15 3 14 2x4 II Specia	I Special	Special Sp 3 17 4 17 26 11 3x8 JUS24 JUS24	ecial Spr x4= 18 1 3 12 2 = 6x6= \$24 JU	9 2 9 2 10 27 2 JU S24	ecial \$ 4x4 = 205 21 1 1 28 S24	Special 2x4 6 11 4x12: JUS24	Specia 22 22 10 10 10 29 = JUS2	al Specific Action of the specific Action of	acial	Special 6x6 = 7 2 10 2x4 II Special	4	8 9 3x6=
			<u>5-0-8</u> 5-0-8		<u>11-0-3</u> 5-11-1	8 1		<u>16-11-1</u> 5-11-1	<u>3</u> 1			<u>22-11-8</u> 5-11-11	}		<u>28-0-0</u> 5-0-8	——
Scale = 1:54.4 Plate Offsets (X, Y)	: [2:Edge,0-0	-10], [5:0-2	2-0,Edge], [8:E	dge,0-0-1)], [13:0-3-8,0-1	-8]										
Loading TCLL (roof) TCDL BCLL BCDL	(psf 25.0 10.0 0.0 10.0) Spac) Plate) Lumb) Rep S	ing Grip DOL er DOL Stress Incr	2-0-0 1.15 1.15 NO IRC2018	/TPI2014	CSI TC BC WB Matrix-S	0.78 0.62 0.41	DEFL Vert(I Vert(0 Horz(- LL) - CT) - (CT)	in -0.33 -0.60 0.08	(loc) 11-13 11-13 8	l/defl >988 >550 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 22	GRIP 197/144 5 lb FT = 20	4
BCLL 0.0 Rep Stress Incr NO BCDL 10.0 Code IRC LUMBER TOP CHORD 2x4 SPF No.2 *Except* 3-5,5-7:2x4 SPF 1650F 1.5E BOT CHORD 2x6 SPF 1650F 1.5E WEBS 2x4 SPF No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 5-2-1 oc purlins, except 2-0-0 oc purlins (4-4-14 max.): 3-7. BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing. BEACTIONS (size) 2=0-5-8, 8=0-5-8 Max Horiz 2=-37 (LC 13) Max Uplift 2=-264 (LC 1), 8=2264 (LC 1) FORCES Max Uplift 2=-647 (LC 8), 8=-647 (LC 9) Max Grav 2=2264 (LC 1), 8=2264 (LC 1) FORCES (b) - Maximum Compression/Maximum Tension Top Code 10-1407/4980, 11-13=-287/8092, 10-11=-1407/4980, 11-13=-2287/8092, 10-11=-1407/4980, 11-13=-2287/8092, 10-11=-1407/4980, 11-13=-2287/8092, 10-11=-1407/4980, 11-13=-2287/8092, 10-11=-1407/4980, 11-13=-936/3355, 7-11=-914/3283, 4-13==-936/3355, 7-11=-914/3283, 4-13==-936/3355, 7-11=-914/3283, 4-13==-854/434, 4-11=-109/53, 6-11=-846/446 NOTES 1) 2-ply truss to be connected together with 10d (0.131*X3*) nails as follows: Tow at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bo				2) 3) d or 4) 5, 5) 6) 7) 8) 355, 9) 10) 11) 12)	All loads are co except if noted CASE(S) secti provided to dis unless otherwi Unbalanced ro this design. Wind: ASCE 7 Vasd=91mph; Ke=1.00; Cat. exterior zone a Interior (1) 4-1. Interior (1) 4	onsidered eq l as front (F) o on. Ply to ply tribute only k se indicated. of live loads -16; Vult=115 TCDL=6.0ps II; Exp C; En- and C-C Exte -0 to 5-2-4, E 3-2 to 22-9-1. cantilever lef d right expose RS for reaction the grip DCL=' late drainage been designed nonconcurre e assumed to anical connec capable of with plift at joint 8. designed in ac cesidential Cod referenced s in representa on of the puri S24 (With 4-1 s) or equivale of fom the lef ck face of bo as where hans	ually applie or back (B) connection bads noted have been imph (3-se f; BCDL=6 closed; MV rior(2E) -0- xterior(2R) 2, Exterior(and right ed;C-C for ons shown; 1.60 to prevent def or a 10 to prevent def or a 10 be SPF 1 tion (by oth hstanding cordance v de section standard A lion does n in along th 10d nails in nt spaced t end to 2 to cordance v de section standard A lion does n in along th	ed to all face in hs have as (F) of conside cond gu 00ps; h= VFRS (e 11-0 to 5-2-4 to 22) 22- exposed exposed water p 0 psf bo of 650F 1. bers) of 647 lb u vith the s R502. NSI/TPI ot depice e top ar to Girde at 2-0-0 -9-0 to (- - -	plies, the LOA been or (B), ered for ust) =35ft; envelope; 4-1-0, o 12-3-2, 9-12 to d; end rs and r oonding. ottom ive loads 5E. truss to uplift at jo 2018 .1.1 and to the size to d/or er & 2-10 o co max. connect	D) int d d	13) Hang provi lb dc up a down up a lb dc lb up 20-9 top c 301 l The resp LOAD C 1) Dec Pla Uni \ Cor	ger(s) or ided suff wan and t 7-3-0, n and 10 t 13-3-0 wan and o at 18-9 -0, and 1 thord, an Ib down design/s onsibility ASE(S) ad + Roc te Increas form Los /ert: 1-3- ncentrate	other ficient 107 lb 104 lb 107 lb 0-0, an 127 lb 0-0, an 120 lb 100 lb 100 lb 100 lb 100 lb 100 lb 100 lb 100	connection to support of up at 5-2-4 down and 1 b down and 2 b down and 1 lb down and 2 lb down and 1 lb down and 3 lb down and 1 lb down and 3 lb down and	device(s) shal oncentrated id 4, 104 lb down 107 lb up at 9 104 lb down 107 lb up at 9 104 lb down 107 lb up at 2 2-9-0 on botto onnection dev Lumber Incree =-70, 2-8=-20 F MISS COTT M. EVIER	II be bad(s) 127 and 107 lb -3-0, 104 lb and 107 lb 14-9-0, 104 m and 107 up at 2-9-12 on 5-2-4, and m chord. ice(s) is the ease=1.15,
														Decem	nber 27,20	24

tinued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

400 Sunrise Ave., Suite 270 Roseville, CA 95661 916.755.3571 / MITek-US.com

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	A1	Hip Girder	1	2	Job Reference (optional	R85979611 LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Den	ver, CO - 80221,	Run: 8.83 S Dec 4 2 ID:3BJX?HGbO3e?9	2024 Print: 8. VWstBCFLIz	830 S Dec 4 DuRM-RfC?F	2024 MiTek Industries, Inc. Fi PsB70Hq3NSgPqnL8w3uITXb	Dec 27 12 46 43 07 29 25 SKWrCD5# J42 JC?

 $\begin{array}{l} \mbox{Vert: 3=-104 (B), 14=-301 (B), 10=-301 (B), 13=-31 \\ (B), 7=-104 (B), 11=-31 (B), 4=-104 (B), 6=-104 (B), \\ 16=-104 (B), 17=-104 (B), 19=-104 (B), 20=-104 (B), \\ 22=-104 (B), 23=-104 (B), 25=-31 (B), 20=-31 (B), \\ 27=-31 (B), 28=-31 (B), 29=-31 (B), 30=-31 (B) \\ \end{array}$



											RELEASE	FOR CONSTRUCTION
Job	Tr	uss		Truss Typ	e		Qty	Ply	Clayton E	uilder-P24098	AS NOTE Lot 209- 2750 S	D FOR PLAN REVIEW W 11th Terr OPMENT SERVICES
241089-A	A2	2		Hip			1	1	Job Refe	ence (optional)	LEE'S	R85979612 SUMMIT, MISSOURI
Direct Lumber of	Colorado, Denver, C	CO - 8	0221,			Run: 8.83 S De	c 4 2024 Pi	int: 8.830 S D	Dec 4 2024 MiTek	Industries, Inc. F	i Dec 27 12 46 44)7/2025
	-0 - 0-)-11-() 7-2-4 7-2-4			<u>14-0-0</u> 6-9-12	28		<u>20-9-12</u> 6-9-12		<u>28-0-0</u> 7-2-4	28-11-0
→	9-1-0 2 9 1 9 1	2	4 ¹² 3x4 = 3x4 = 3 14 5x8 II	6-1-0 H	6x6 = 4 13 2x4 II		□ ↓ 12 4x6 = 4	2x4 ⊪ 5 ⊠ 11 4x10 =	20.11.8	6x6= 6 10 2x4 II	15 7 15 7 15 7	4 = 3x4 = 5x8 II
		ŀ	7-0-8			6-11-8		-	6-11-8		<u>28-0-0</u> 7-0-8	
$\frac{\text{Scale} = 1:54.5}{\text{Plate Offsets ()}}$	X, Y): [2:0-4-5,Ec	dge],	[8:0-4-5,Edge]									
Loading TCLL (roof) TCDL BCLL BCDL LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this design	(ps 25. 10. 0. 10. 2x4 SPF 1650F 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Left 2x4 WW Str Stud 3-7-14 Structural wood 2-2-0 oc purlins, 2-0-0 oc purlins, 2-0-0 oc purlins, Rigid ceiling dirr bracing. (size) 2=0-5 Max Horiz 2=-50 Max Uplift 2=-30 Max Uplift 2=-30 Max Grav 2=132 (lb) - Maximum 0 Tension 1-2=-4/0, 2-4=-2 5-6=-3500/951, 2-13=-577/2535 10-11=-589/252 4-13=0/289, 4-1 6-11=-279/1177	f) .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code 3-7-14, Right 2x4 WV athing directly applied applied or 7-7-14 oc =0-5-8 13) C 8), 8=-303 (LC 9) C 1), 8=1324 (LC 1) pression/Maximum 719, 4-5=-3500/951, -2781/719, 8-9=-4/0 13=-581/2528, 10=-585/2535 78/1177, 5-11=-628/2 D=0/289 been considered for	2-0-0 1.15 1.15 YES IRC2018/ 3) 4) 5) v 6) or 7) 8) LOA	TPI2014 Provide adec This truss ha chord live los All bearings a Provide mec bearing plate 2 and 303 lb This truss is International R802.10.2 ar Graphical pu or the orienta bottom choro AD CASE(S)	CSI TC BC WB Matrix-S quate drainage to s been designed d nonconcurrent are assumed to b nanical connectio capable of withs uplift at joint 8. designed in accoo Residential Code d referenced sta rlin representation tion of the purlin Standard	0.85 0.71 0.29 prevent w for a 10.0 with any c e SPF No. of the service of the service transition of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the servic	DEFL Vert(LL) Vert(CT) Horz(CT) ater ponding psf bottom ther live loa 2. rs) of truss t 3 lb uplift at h the 2018 R502.11.1 a SI/TPI 1. depict the s top and/or	in (loc) -0.25 11 -0.47 11-13 0.12 8 g. ids. to t joint size	I/defi L/d >999 240 >719 180 n/a n/a	PLATES MT20 Weight: 99 lb	GRIP 197/144 FT = 20%
 Wind: ASC Vasd=91m Ke=1.00; C exterior zoo Interior (1) Interior (1) 28-0-0, Intr and right e C for mem shown; Lui 	 E 7-16; Vult=115 ph; TCDL=6.0psf Cat. II; Exp C; Enc ne and C-C Exter 4-1-0 to 7-2-4, Ex 14-0-0 to 20-9-12 erior (1) 28-0-0 to exposed ; end vert bers and forces & mber DOL=1.60 p	mph ; BCI closed ior(21 xterio 2, Ext 28-1 ical le MW blate s	(3-second gust) DL=6.0psf; h=35ft; 1; MWFRS (envelope) 2) -0-11-0 to 4-1-0, r(2R) 7-2-4 to 14-0-0, erior(2R) 20-9-12 to 1-0 zone; cantilever lo eft and right exposed; FRS for reactions grip DOL=1.60) eft C-							SCOTT SEVI PE-20010 PE-20010 December	ER DI8807 L ENGINE



												RELEASE	FOR CON	STRUCTION
Job	Truss		Truss Ty	ре		Q	у	Ply	Clayton Bu	uilder-P2	240989	AS NOTE Lot 209- 2750 S- DEVEL	D FOR PL W 11th Te OPMENT	AN REVIEW
241089-A	A3		Hip			1		1	Job Refere	ence (op	tional	LEE'S	R8597 Summit, N	9613 AISSOURI
Direct Lumber of	Colorado, Denver, CO -	80221,			Run: 8.83 S ID:6rJ3G8S	Dec 4 2024 VRbA6ZkpcIN	Print: 8.8 bht3zDu`	330 S Dec 4 2 Ys-RfC?PsB7	2024 MiTek I 0Hq3NSgPq	ndustries, nL8w3ul7	, Inc. Fi TXbGK	Dec 27 12 46 45 VrCDoi754zJC?f)7/2	2025
	-0- - 0-7	11-0 <u>5-6-6</u> 5-6-6 11-0		<u>9-2-4</u> 3-7-14		14-0-0 I-9-12	28-0-0	<u>18-9-12</u> 4-9-12		<u>22-5-</u> 3-7-1	<u>10</u> 14	<u>28-0</u> 5-6-	-06	28-11-0
		3x6 = 15 3 2 5x8 II	4 ¹² 2x4 16 4	* •-1-9	4x6= 5 14 3x8=	17 x 13 4x6=	3x4 = 6 ⊵		4x6= 7 	=		2x4 = 8 19 5 7	3x8= 20	10 11
Scale = 1:54.6 Plate Offsets ()	X. Y): 12:0-4-5.Edae		<u>9-0-8</u> 9-0-8			1	<u>8-11-8</u>)-11-0					<u>28-0-0</u> 9-0-8		-1
	(psf)	Spacing	2-0-0		CSI		DEFL	i	in (loc)	l/defl	L/d	PLATES	GRIP	
TCDL BCLL BCDI	25.0 10.0 0.0	Lumber DOL Rep Stress Incr	1.15 1.15 YES	TPI2014	IC BC WB Matrix-S	0.97 0.91 0.33	Vert(L Vert(C Horz(L) -0.2 CT) -0.4 CT) 0.1	0 12-14 8 12-14 2 10	>999 >705 n/a	240 180 n/a	Weight: 103 lb	197/144 FT - 204	26
BCLL 0.0 Rep Stress Incr YES WB 0.33 Horz(CT) 0.12 10 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S 0.12 10 n/a n/a LUMBER 20 Wind: ASCE 7-16; Vull=115mph (3-second gus) Vasd=91mph; TCDL=6.0ps; BCDL=6.0ps; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) extentior Zone and Co E Stretor(ZB) -01-10-10 4-1-0, Interior (10 14-10 to 2-4-10, 24 KET 2-16; ZNI 14-9-12 to 225-10-10, Interior (10 16-3-2); Extentior(ZB) 19-9-12 to 225-10-10, Interior (10 16-3-2); Extentior(ZB) 19-9-12 to 225-10-10, Interior (11 0-12 -10 to 28-11-0 zone; cantiver of the extention of the shown; Lumber DoL=1.60 plate grip DoL=1.60 BTO CHORD Structural wood sheathing directly applied or 22-00 co purins (3-611 max); 5-7. DOL=1.60 Provide adequate drainage to prevent water ponding. BT CHORD Size 2-265, 10-0-5-8 Max Horiz 2-62 (LC 8), 10=-294 (LC 9) Provide adequate drainage to prevent water ponding. Provide adequate drainage to prevent water ponding. Max Horiz 2-62 (LC 13) Max Grav 2-1324 (LC 1), 10=1324 (LC 1), 10=1324 (LC 1) Provide mechanical connector (by others) of truss to bearing are assumed to be SPF No.2. Provide mechanical connector (by others) of truss to bearing plate capable of withstanding 294 lb uplift at joint 1.2 and 234 lb uplift 10=112-400, 24-2730(800, 16-1=400)										No and the second				

this design.

1.0001 -December 27,2024

NUMBER

PE-2001018807





												RELEASE	FOR CONSTRUCTIO	N
Job		Truss		Truss Ty	/pe		Qt	y F	Ply	Clayton Bui	lder-P2409	AS NOTE 89-Lot 209- 2750 S	D FOR PLAN REVIE W 11th Terr	N
241089-A		A4		Hip			1	1		lob Referer	nce (optiona	LEE'S	R85979614 SUMMIT, MISSOURI	
Direct Lumber of	f Colorado, Denv	er, CO - 802	221,			Run: 8.83	S Dec 4 2024	Print: 8.830) S Dec 4 20	024 MiTek In	dustries, Inc.	Fi Dec 27 12 46 45	7/292	5
						ID:mh5Sw	t0Mcjya4oKRS1	QTImzDuY	/8-RfC?PsB	70Hq3NSgPo	qnL8w3ulTXb	GKWrCDol754zJC?f	517202	
			5-8-6 5-8-6		<u>11-2-</u> 5-5-1	4	16-9 5-7 28-0	1-12 7-8 0-0		22-3-10 5-5-14		28-0-0 5-8-6	28-11-0 	
4-4-12	4-3-3 4-3-3 4-3-3 0-1-9	o1 ∞	3х8 = 2 5х8 ш 5-8-6 5-8-6	4 ¹² 30 5 16 3 5 16 14 2x	2 4 = 4 4 = <u>11-0-</u> 5-4-2	6x 	6= 12 = 4x4= <u>16-1</u> 5-1'	<u>1-8</u> 1-0	4x6= 5 11 3x8=	<u>22-3-10</u> 5-4-2	3x4. 6 10 2x4	17 ^{3x8} ≈ 7 7 155 17 7 155 10 10 10 10 10 10 10 10 10 10 10 10 10	8 9 5х8 ш	
Scale = 1:53.3 Plate Offsets (2	X, Y): [1:0-3-8	3,Edge], [8	:0-4-5,Edge]											
Loading TCLL (roof) TCDL BCLL BCDL		(psf) \$ 25.0 F 10.0 L 0.0 F 10.0 (Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	J/TPI2014	CSI TC BC WB Matrix-S	0.74 0.70 0.27	DEFL Vert(LL) Vert(CT Horz(CT	ir) -0.17) -0.33 T) 0.11	n (loc) 7 13-14 3 11-13 I 8	l/defl L/ >999 24 >999 18 n/a n/	d PLATES MT20 a Weight: 106 lb	GRIP 169/123 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No 2x4 SPF No 2x4 SPF No Left 2x4 WW Stud 2-11- Structural w 2-4-4 oc pur 2-0-0 oc pur Rigid ceiling bracing. (size) 1= Max Horiz 1= Max Uplift 1=	2 2 2 / Stud 2- 6 ood sheatt lins, excep lins (3-3-2 directly ap = Mechanii =77 (LC 12 =-240 (LC	11-6, Right 2x4 Wi hing directly applied t max.): 4-5. oplied or 7-1-5 oc cal, 8=0-5-8 :) 8). 8=-283 (LC 9)	2) N I or 3) 4) 5) 6)	Wind: ASCE Vasd=91mph Ke=1.00; Cat exterior zone Interior (1) 5- 16-9-12, Exte 23-10-10 to 2 exposed ; en members and Lumber DOL. Provide adeq This truss ha chord live loa Bearings are Refer to girde	7-16; Vult=1 ; TCDL=6.0 . II; Exp C; E and C-C Ex 0-0 to 11-2 erior(2R) 16- 8-11-0 zone d vertical left d forces & M =1.60 plate of uate drainag s been desig d nonconcul assumed to er(s) for truss	15mph (3-sec psf; BCDL=6.1 Enclosed; MW terior(2E) 0-0 4, Exterior(2E) 9-12 to 23-10 y; cantilever let t and right exp WFRS for rea grip DOL=1.6(ge to prevent ' gned for a 10.1 rrent with any be: , Joint 8 \$ s to truss corn	cond gust Opsf; h=3 FRS (env- 0 to 5-0-1) 11-2-4 tr -10, Interi ft and rigg bosed;C-C cctions shi boxed;C-C cctions shi boxed;C-C cc) 5ft; velope) 0, o or (1) nt C for own; vloads.					

Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 240 lb uplift at joint 1 and 283 lb uplift at joint 8. This truss is designed in accordance with the 2018 8)

International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard

Max Grav 1=1259 (LC 1), 8=1325 (LC 1)

(lb) - Maximum Compression/Maximum

1-3=-2807/783, 3-4=-2318/701,

4-5=-2165/719, 5-6=-2318/717,

1-14=-662/2542, 13-14=-662/2542, 11-13=-505/2137, 10-11=-686/2532,

3-14=0/213, 3-13=-470/197, 4-13=-10/337,

4-11=-208/207, 5-11=-12/337, 6-11=-460/195,

6-8=-2795/801, 8-9=-4/0

1) Unbalanced roof live loads have been considered for

8-10=-686/2532

6-10=0/210

Tension

FORCES

TOP CHORD

BOT CHORD

WEBS

NOTES

this design.



December 27,2024



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	A5	Roof Special Girder	1	1	Job Reference (optional	R85979615 LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Denv	ver. CO - 80221.	Run: 8.83 S Dec 4 2	024 Print: 8.8	830 S Dec 4	2024 MiTek Industries, Inc. F	

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. F Dec 27 1246 45/07/210:25 ID:4CEWwmk3wf_lknmwKZU?2wzDuVv-RfC?PsB70Hq3NSgPqnL8w3uITXt GKWrCDw7J4zJC?





WEB3	T NOW at	mupt 5-15
REACTIONS	(size)	2=0-5-8, 9=0-5-8
	Max Horiz	2=-87 (LC 17)
	Max Uplift	2=-525 (LC 8), 9=-314 (LC 9)
	Max Grav	2=1881 (LC 1), 9=1541 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=0/2, 2	2-3=-4506/1339, 3-4=-6980/1908,
	4-5=-464	1/1211, 5-6=-2795/762,
	6-7=-2569	9/750, 7-8=-2698/737,
	8-9=-3386	6/835, 9-10=0/2
BOT CHORD	2-17=-119	93/4111, 16-17=-1170/4024,
	15-16=-1	791/6788, 13-15=-1052/4370,
	12-13=-53	30/2482, 11-12=-717/3085,
	9-11=-71	7/3085
WEBS	3-17=-180	0/635, 4-16=-955/319,
	4-15=-25	10/766, 5-15=-178/936,
	5-13=-19	18/551, 6-13=-119/564,
	7-13=-142	2/433, 7-12=-45/344,
	8-12=-70	5/244, 8-11=0/273, 3-16=-704/3048

NOTES

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

- Joint 9 SPF 1650F 1.5E
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 525 lb uplift at joint 2 and 314 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 8) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 3-9-12 from the left end to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 68 lb up at 2-8-4 on top chord, and 74 lb down and 126 lb up at 2-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) 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





							RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	CG3	Diagonal Hip Girder		2	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Denv	ver CO - 80221		Run: 8 83 S Dec. 4 2	024 Print: 8 8	330 S Dec 4	2024 MiTek Industries Inc. F	

ID:?1NRHKtWxEcYJa3i?Tdk2YzDuRs-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoho4zJCff



Scale = 1:23.2

Plate Offsets (X, Y): [2:0-2-6,0-0-3]

	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												
Loading FCLL (roof) FCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-P	0.96 0.63 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.16 -0.31 0.00	(loc) 2-5 2-5 5	l/defl >544 >272 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 24 lb	GRIP 197/144 FT = 20%
LUMBER FOP CHORD 30T CHORD WEBS SLIDER BRACING FOP CHORD 30T CHORD 30T CHORD 30T CHORD 30T CHORD 30T CHORD 30T CHORD 1) Wind: AS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Left 2x4 WW Stud Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 2=0-7-6, § Max Horiz 2=92 (LC Max Uplift 2=-102 (L Max Grav 2=371 (LC (lb) - Maximum Com Tension 1-2=-5/0, 2-4=-182/7 2-5=-42/45 CE 7-16; Vult=115mph	3-6-14 athing directly applie cept end verticals. applied or 10-0-0 oc 5= Mechanical 9) C 8), 5=-77 (LC 12) C 1), 5=298 (LC 1) npression/Maximum 75, 4-5=-225/237	7) ed or 2 8) LC 1)	Hanger(s) or provided suff Ib down and Ib up at 1-7- and 31 lb do down at 4-5 chord. The c (s) is the res In the LOAD of the truss a AD CASE(S) Dead + Roc Plate Increa Uniform Loc Vert: 1-4 Concentrat Vert: 6=6	other connection d ficient to support co 108 lb up at 1-7-1 11, and 31 lb down wn and 86 lb up at at 1-7-11, 13 lb up 10, and 13 lb down design/selection of ponsibility of others CASE(S) section, I are noted as front (F Standard of Live (balanced): I ase=1.15 ads (lb/ft) =-70, 2-5=-20 ed Loads (lb) S2 (F=31, B=31), 10	levice(soncentra 1, 130 ll and 86 4-5-10 o at 1-7 n at 4-5 such co such co suc) shall be atted load(s) 1 5 down and 1 5 lb up at 4-5 on top chord -11, and 13 l -10 on botto nnnection dev opplied to the ck (B). Increase=1.	130 108 5-10, 1, b m vice face 15,					
Vasd=91 Ke=1.00; exterior z Exterior(2 right expo for memb Lumber D 2) This truss	nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Corner (3 R) 5-9-5 to 7-0-13 zoni sed ; end vertical left a ers and forces & MWFI OL=1.60 plate grip DC has been designed foi	DL=6.0psf; h=35ft; d; MWFRS (envelop)) -1-3-9 to 5-9-5, e; cantilever left and und right exposed;C-0 RS for reactions sho DL=1.60 r a 10.0 psf bottom	ee) C wn;									STATE OF M	MISSOLAL T.M. ER

- 2 chord live load nonconcurrent with any other live loads.
- 3) Bearings are assumed to be: Joint 2 SPF No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 5 and 102 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



E

UMBE

PE-2001018807

ASSIONAL

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J7	Jack-Open	10	1	Job Reference (optional	R85979617 LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Denv	er, CO - 80221,	Run: 8.83 S D	ec 4 2024 Print: 8.8	330 S Dec 4	2024 MiTek Industries, Inc. F	Dec 27 12 40 55/07/200:05

ID:26Cqk1RxPA4f_2Jnuv_layzDuSQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi754zJC?/



Scale = 1:20.4

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

	E; 3										-		
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.04	2-5	>999	240	MT20	169/123	
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.08	2-5	>743	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	4	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%	
LUMBER			LOAD CASE(S) Standard									

LUMBER			L
TOP CHORD	2x4 SPF I	No.2	
BOT CHORD	2x4 SPF I	No.2	
SLIDER	Left 2x4 V	VW Stud 2-9-1	
BRACING			
TOP CHORD	Structura	wood sheathing directly applied or	
	5-2-4 oc p	ourlins.	
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc	
	bracing.		
REACTIONS	(size)	2=0-5-8, 4= Mechanical, 5=	
		Mechanical	
	Max Horiz	2=88 (LC 12)	
	Max Uplift	2=-78 (LC 8), 4=-97 (LC 12)	
	Max Grav	2=301 (LC 1), 4=174 (LC 1), 5=102	
		(LC 3)	
FORCES	(lb) - Max	imum Compression/Maximum	
	Tension		
TOP CHORD	1-2=-4/0,	2-4=-93/57	
BOT CHORD	2-5=0/0		

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 5-1-8 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Bearings are assumed to be: , Joint 2 SPF No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 4 and 78 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



org) Millek-US.com

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J10	Jack-Open	4	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Dan	ror CO 80331	Burn 9 82 6 Dec 4 2	024 Drint: 0	920 E Doo 4	2024 MiTak Industrias Inc. E	

ID:LS7TCQWKmKyfK7L7otcxMQzDuSJ-RfC?PsB70Hq3NSgPqnL8w3uITXbsKWrCDs#J4zJC?





	3-1-3	
Scale = 1:17.7		I
Plate Offsets (X, Y): [2:0-1-8,0-0-5]		

		-						-					
Loading		(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.01	2-5	>999	240	MT20	169/123
TCDL		10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	2-5	>999	180		
BCLL		0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%
LUMBER				LOAD CASE(S)	Standard								
TOP CHORD	2x4 SPF I	No.2											
BOT CHORD	2x4 SPF I	No.2											
SLIDER	Left 2x4 V	VW Stud	1-7-14										
BRACING													
TOP CHORD	Structura	wood she	athing directly applie	ed or									
	3-1-3 oc p	ourlins.											
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 o	C									
	bracing.												
REACTIONS	(size)	2=0-5-8, 4	1= Mechanical, 5=										
	Mary 11a 2	Mechanic	al										
	Max Horiz	2=58 (LC	(12)										
	Max Oplift	2=-65 (LU	(12) (10 12)	C1									
	wax Grav	(LC 3)	5 T), 4=97 (LC T), 5	=0 1									
FORCES	(lb) - Max Tension	imum Com	pression/Maximum										
TOP CHORD	1-2=-4/0	2-4=-60/33	3										
BOT CHORD	2-5=0/0	2 . 00/00											
NOTES													
1) Wind: AS	CE 7-16: Vu	lt=115mph	(3-second gust)										
Vasd=91r	nph; TCDL=	6.0psf; BC	DL=6.0psf; h=35ft;										
Ke=1.00;	Cat. II; Exp	C; Enclose	d; MWFRS (envelop	be)									
exterior zo	one and C-C	Exterior(2	E) zone; cantilever	left								O DE M	ALL OF
and right	exposed ; er	nd vertical I	eft and right expose	d;C-								ALE OF T	11SS
C for men	nbers and fo	rces & MW	FRS for reactions								A		1.51
shown; Lu	umber DOL=	1.60 plate	grip DOL=1.60								A	SCOT	M. JEN
2) This truss	has been d	esigned for	a 10.0 psf bottom								K.	/ SEVI	ER \ N
chord live	load nonco	ncurrent wi	th any other live loa	ds.							N X	1 ++	0
2) Rearings	aro accumo	d to have la	vint 2 SDE No 2										A CALL ALL

- 3) Bearings are assumed to be: , Joint 2 SPF 4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 4 and 65 lb uplift at joint 2.

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J12	Jack-Open	4	1	Job Reference (optional	R85979619 LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Denv	Dec 27 12 46 56 07 2 99 9 5					

ID:WZIdVAfDAiL59phFyhJWJIzDuS8-RfC?PsB70Hq3NSgPqnL8w3uITXbGK/wrCDoi754zJC?





Scale = 1:23.1

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

				-								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.08	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 5 lb	FT = 20%
LUMBER TOP CHORD	2x4 SPF No.2		6) This truss Internation R802 10 2	is designed in accornal Residential Cod	ordance w le sections	ith the 2018 R502.11.1 a	ind					
WERS	2x4 SPF N0.2 2x4 SPF No.2		LOAD CASE	Standard		00/1111						
BRACING	274 011 100.2		LOAD OADE(c) otandard								
TOP CHORD	Structural wood she 1-1-3 oc purlins. exe	athing directly applic	ed or									
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	с									
REACTIONS	(size) 3= Mecha	nical, 4= Mechanica	al,									
	5=0-5-8											
	Max Horiz 5=26 (LC	11)										
	Max Uplift 3=-9 (LC	1), 4=-7 (LC 8), 5=-7	75 (LC									
	0) Max Gray 3-14 (LC	8) 1-10 (1 C 3) 5-	150									
	(LC 1)	0), 4=10 (20 0), 0=	100									
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	2-5=-161/176, 1-2=0)/24, 2-3=-24/9										
BOT CHORD	4-5=-59/10											
WEBS	2-4=-11/65											
NOTES												
1) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)									000	and
Vasd=91r	nph; TCDL=6.0psf; BC	DL=6.0psf; h=35ft;	、 、								P. OF	MIG
Ke=1.00;	Cat. II; Exp C; Enclose	d; MVVFRS (envelop	pe)							- 1	FE	0.0
and right	exposed : and vertical l	eft and right expose								6	SI	N SY
C for men	nbers and forces & MW	/FRS for reactions	,0							H	SCOT	TM. YGY
shown; Lu	umber DOL=1.60 plate	grip DOL=1.60								8	/ SEV	IER \ X
, .		51								13		1 * 12
2) This truss	has been designed for	r a 10.0 psf bottom								N D		.0
chord live	load nonconcurrent wi	th any other live loa	ds.							X	Cellin	and the
3) Bearings	are assumed to be: , Jo	pint 5 SPF No.2 .								W7	PE-2001	018807
 Reter to g 	irder(s) for truss to tru	ss connections.								XV.	AL-2001	158

Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 75 lb uplift at joint 5, 7 lb uplift at joint 4 and 9 lb uplift at joint 3.



December 27,2024

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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	LG6	Lay-In Gable	1	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Den	ver, CO - 80221,	Run: 8.83 S Dec 4 2 ID:amL0vgFTCg9Ne(024 Print: 8 GbXq0IxEiz	8.830 S Dec 4 DuZ6-RfC?Ps	2024 MiTek Industries, Inc. F B70Hq3NSgPqnL8w3uITXbGI	Dec 27 12 46 58/07/29 25 WrCDoily4z JC7f
		<u>8-8-8</u> 8-8-8		<u>17-1-</u> 8-5-	17-5-0 <u>12</u> 4 0-3-4	
		I 1	7-5-0			
			3x4=			
	ΤŢ	5	7	X		

3

18 17

19

8

13

14

15

16 3x4= 17-5-0 9

10

12

11

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3x4、

+

Scale = 1:58.5	

Plate Offsets	(X,	Y):	[6:Edge,	,0-3-0
---------------	-----	-----	----------	--------

9-2-7 8-10-12

0-0-4

12.65¹²

 \boxtimes

3x4 , 20

															_
Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
TCDL		10.0	Lumber DOL	1.15		BC	0.05	Vert(TL)	n/a	-	n/a	999			
BCLL		0.0	Rep Stress Incr	YES		WB	0.15	Horiz(TL)	0.01	11	n/a	n/a			
BCDL		10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 91 lb	FT = 20%	
				14		00 000/450 0 4/	0 000	457							-
	0.4 005	NI- 0		V	EBS 2	2-20=-223/156, 3-1	9=-223/ 6_ 121	157, 45 7 15- 10	6/11						
	2X4 SPF I	NO.Z			-	-10=-240/102, 5-10 2-11218/185 0-1	3223	45, 7-15=-10	0/11,						
	284 5PF 1	NO.Z			1	0-12=-223/156	5=-225	157,							
DRACING	284 366	110.2		N	OTES	220,100									
	Structura	l wood chor	othing directly applie	nd or 1	Unbalanced	roof live loads have	heen	considered fo	r						
	6-0-0 oc r	nurlins	atting unectly applie	u u u i)	this design		been								
BOT CHORD	Rigid ceil	ina directly	applied or 10-0-0 or	2)	Wind: ASCE	7-16: Vult=115mph	n (3-sec	ond aust)							
	bracing.	ing anoony		,	Vasd=91mph	; TCDL=6.0psf; BC	DL=6.	Opsf; h=35ft;							
REACTIONS	(size)	1=17-5-0.	11=17-5-0, 12=17-5	5-0.	Ke=1.00; Ca	. II; Exp C; Enclose	ed; MW	FRS (envelo	pe)						
	(/	13=17-5-0), 14=17-5-0, 15=17-	-5-0,	exterior zone	and C-C Exterior(2	2E) 0-4	-1 to 5-4-1,							
		16=17-5-0), 18=17-5-0, 19=17-	-5-0,	Interior (1) 5-	4-1 to 8-8-12, Exte	rior(2R) 8-8-12 to							
		20=17-5-0)		13-5-12, Inte	rior (1) 13-5-12 to 1	17-1-7 z	one; cantilev	er						
	Max Horiz	1=-251 (L	C 10)		left and right	exposed ; end vert	ical left	and right	_						
	Max Uplift	1=-110 (L	C 10), 11=-80 (LC 1	1),	exposed;C-C	for members and i	1 CO pl	& MIVVERS TO	ſ						
		12=-139 (LC 13), 13=-132 (LC	C 13),		wii, Luimber DOL=	1.00 pi	ate grip							
		14=-161 (LC 13), 16=-24 (LC	9),		ed for wind loads in	the nl	and of the tru	~~						
		18=-157 (LC 12), 19=-132 (LC	; 12), ³	only For stu	ds exposed to wind	1 (norm	al to the face)						
	May Cray	20=-139 (LG 12) 2 40) 44 050 (LC 4)	2)	see Standard	I Industry Gable En	d Deta	ils as applica), ble						
	wax Grav	1=272 (LU	C 22) 12 204 (LC 1	3), 22)	or consult au	alified building desi	igner a	s per ANSI/TI	PI 1.						
		12=209 (L 14=219 (l	C 22), 15=204 (LC 2	$\frac{22}{22}$, 4)	All plates are	2x4 () MT20 unle	ess oth	erwise indica	ted.						
		16=165 (L	C 21), 18=215 (LC 2	21) 5)	Gable require	es continuous botto	m chor	d bearing.							
		19=204 (L	C 21), 20=209 (LC 2	21) 6)	Gable studs	spaced at 0-0-0 oc.							000	TIC	
FORCES	(lb) - Max	imum Com	pression/Maximum	ý 7)	This truss ha	s been designed fo	or a 10.0) psf bottom					A OF M	MIG. Ch	
	Tension				chord live loa	d nonconcurrent w	ith any	other live loa	ds.				FIE	1050.0	
TOP CHORD	1-2=-393/	/274, 2-3=-2	265/169, 3-4=-134/1	14, 8)	All bearings a	are assumed to be	SPF No	o.2 .				6	AN I	N SY	
	4-5=-112/	/108, 5-6=-8	88/76, 6-7=-88/76,	9)	Provide mecl	nanical connection	(by oth	ers) of truss t	0			B	SCOT	TM. Y Y	
	7-8=-112/	/79, 8-9=-1	13/75, 9-10=-238/16	9,	bearing plate	capable of withsta	nding 1	10 lb uplift at	joint			R	/ SEVI	ER \ Y	
	10-11=-36	66/274			1, 80 ID UPIII	aljoint II, 139 ID t 10, 157 lb unlift of i	upiint at	24 lb unlift a	1D +		1		1 10 0		
BOT CHORD	1-20=-204	4/279, 19-2	.0=-204/279,		ioint 16 161	19, 157 ib upilit at j Ib unlift at joint 14	132 lb	24 ID uplift a	ו 13			M.	1 #5	XALLAN AND	
	18-19=-20	04/279, 16-	18=-204/279,		and 139 lb ut	blift at joint 12	102 10	apint at joint	10		_	X	con la		
	15-16=-20	04/279, 14-	15=-204/279,	1()) This truss is	designed in accord	ance w	ith the 2018				27		DER JEA	
	13-14=-20	04/279, 12- 04/270	13=-204/279,		International	Residential Code s	ections	R502.11.1 a	ind			N.	OK PE-2001	01880/ 108810	
	11-12=-20	071213			R802.10.2 ar	nd referenced stand	dard AN	ISI/TPI 1.				Y	N. Pol	154	
				L	DAD CASE(S)	Standard						0	SION	TENS	
					()								WANA		
													1000	SU	

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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December 27,2024

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	A16	Hip Girder	1	2	Job Reference (optional	R85979621 LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Denv	ver, CO - 80221,	Run: 8.83 S Dec 4 2	024 Print: 8.8	330 S Dec 4	2024 MiTek Industries, Inc. F	Dec 27 12 40 50 07 2 9 10 5

ID:rsxYZJtub8KKW?1gn8Gkl9zDucB-RfC?PsB70Hq3NSgPqnL8w3uITXbGK/vrCDoi734zJQ?#





Т	4-10-4	10-4-12	15-11-4	21-5-12	27-0-4	31-10-8	1
Г	4-10-4	5-6-8	5-6-8	5-6-8	5-6-8	4-10-4	٦

Scale = 1:60.4

Plate Offsets (X, Y): [2:Edge,0-0-12], [9:Edge,0-0-12], [13:0-4-0,0-6-0], [14:0-3-8,0-2-0]

							-																			
Loading	(psf) 25.0	Spacing Plate Grin DOI	2-0-0 1 15		CSI TC	0.78	DEFL	in -0.50	(loc)	I/defl ⊳751	L/d 240	PLATES	GRIP 197/144													
TCDL	10.0	Lumber DOL	1.15		BC	0.52	Vert(CT)	-0.90	12-13	>419	180	11120	10//111													
BCLL	0.0	Rep Stress Incr	NO		WB	0.51	Horz(CT)	0.08	0	n/a	n/a															
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-S							Weight: 294 lb	FT = 20%													
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SPF No.2 *Exce 1650F 1.5E 2x8 SPF 1950F 1.7E 2x4 SPF No.2	pt* 3-6,6-8:2x4 SPF	2	 All loads are except if note CASE(S) see provided to c unless other Unbalanced 	considered equa ed as front (F) or ction. Ply to ply co listribute only loa wise indicated. roof live loads ha	ally applie back (B) onnection ds noted	d to all plies, face in the L0 is have been as (F) or (B), considered fo	DAD	13) Har prov Ib d up a dow up a	nger(s) c vided su own and at 7-0-1 vn and 1 at 13-0-	r other fficient I 104 II 2, 97 II 04 Ib u 12, 97	connection devi to support conc o up at 5-0-0, 97 o down and 104 up at 11-0-12, 97 lb down and 104	ice(s) shall be entrated load(s) 120 7 lb down and 104 lb lb up at 9-0-12, 97 lb 7 lb down and 104 lb 4 lb up at 15-0-12, 97													
COP CHORD Structural wood sheathing directly applied of 4-9-13 oc purlins, except 2-0-0 oc purlins (3-10-11 max.): 3-8.				this design.) Wind: ASCE Vasd=91mpl	7-16; Vult=115m n; TCDL=6.0psf;	nph (3-seo BCDL=6.	cond gust) 0psf; h=35ft;	~~)	lb down and 104 lb up at 16-9-12, 97 lb down and lb up at 18-9-12, 97 lb down and 104 lb up at 20- 97 lb down and 104 lb up at 22-9-12, and 97 lb do																	
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	;	exterior zone	and C-C Exterio	or(2E) -0-1	11-0 to 4-1-0,	pe)	up a	at 26-10	ipat∠ ⊪8 on t	top chord, and 120	84 lb down and 66 lb													
REACTIONS	(size) 2=0-5-8, 9 Max Horiz 2=-36 (LC Max Uplift 2=-708 (L Max Grav 2=2506 (L	9=0-5-8 : 36) C 8), 9=-709 (LC 9) .C 1), 9=2507 (LC 1))	Interior (1) 4-1-0 to 5-0-0, Exterior(2R) 5-0-0 to 12-0-14, Interior (1) 12-0-14 to 26-10-8, Exterior(2E) 26-10-8 to 32-9-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and							up at 5-0-0, and 284 lb down and 66 lb up at 26-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. LOAD CASE(S) Standard															
FORCES	(lb) - Maximum Com Tension	pression/Maximum	5	DOL=1.60 pl	ate grip DOL=1.6	50 Drevent	water pondin	a	1) De Pla	ate Incre	ase=1) (balanced): Lur .15	mber increase=1.15,													
TOP CHORD	1-2=0/7, 2-3=-6231/ 4-5=-10970/3118, 5- 7-8=-9437/2722, 8-9	1781, 3-4=-9617/278 7=-9433/2720,)=-6272/1791, 9-10=(32, 6) This truss ha chord live loa	ad nonconcurrent	for a 10.0 t with any	0 psf bottom other live loa	ads.	Uniform Loads (Ib/ft) Vert: 1-3=-70, 3-8=-70, 8-10=-70, 2-9=-20 Concentrated Loads (Ib)																	
BOT CHORD	2-15=-1593/5767, 14 12-14=-3023/10976, 9-11=-1605/5806	, 8-9=-6272/1791, 9-10=0/7 7, 14-15=-1591/5728, 976, 11-12=-1602/5760, 6		9=-6272/1791, 9-10=0/7 4-15=-1591/5728, 5, 11-12=-1602/5760,		J=-6272/1791, 9-10=0/7 4-15=-1591/5728, , 11-12=-1602/5760,)=-6272/1791, 9-10=0/7 4-15=-1591/5728, , 11-12=-1602/5760,	·6272/1791, 9-10=0/7 15=-1591/5728, 1-12=-1602/5760,	-6272/1791, 9-10=0/7 15=-1591/5728, 1-12=-1602/5760,		-6272/1791, 9-10=0/7 15=-1591/5728, 1-12=-1602/5760,	=-9453/2720, -6272/1791, 9-10=0/7 15=-1591/5728, 1-12=-1602/5760,		437/2722, 8-9=-6272/1791, 9-10=0/7 -1593/5767, 14-15=-1591/5728, 3023/10976, 11-12=-1602/5760, -1605/5806) Provide mec bearing plate	hanical connections capable of withs	on (by oth standing 7	ers) of truss 708 lb uplift at	to t joint					
WEBS	3-15=-21/500, 8-11= 3-14=-1147/4153, 8- 4-14=-1240/520, 4-1 5-13=-181/215, 5-12	46/572, -12=-1084/3933, 3=-408/1464, !=-1654/467,	9) This truss is International R802.10.2 a 0) Graphical pu	designed in acco Residential Code nd referenced sta r/lin representatio	ordance w e sections andard AN on does no	ith the 2018 R502.11.1 a NSI/TPI 1. ot depict the s	and size			ä	STATE OF J	MISSOUR													
NOTES	1-12=-100/410			or the orientation of the purlin along the top and/or							H	7 SEV	TER \ X													
 NOTES 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows 		1 0 1	 11) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 7-0-12 from the left end to 24-9-12 to connect truss(es) to front face of bottom chord. 12) Fill all nail holes where hanger is in contact with lumber. 								BER 1018807															

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.



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December 27,2024

							RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	/	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	A16	Hip Girder	1		2	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado	o, Denver, CO - 80221,		Run: 8.83 S Dec 4 2024 F	Print: 8.83 Skl9zDucl	30 S Dec 4 B-RfC?PsB	2024 MiTek Industries, Inc. F 70Ha3NSaPanL8w3uITXbGK	Dec 27 1246 50 07 2 49 25

Vert: 3=-97 (F), 6=-97 (F), 15=-284 (F), 11=-284 (F), 8=-97 (F), 17=-97 (F), 18=-97 (F), 19=-97 (F), 21=-97 (F), 22=-97 (F), 23=-97 (F), 25=-97 (F), 26=-97 (F), 27=-97 (F), 29=-29 (F), 30=-29 (F), 31=-29 (F), 32=-29 (F), 33=-29 (F), 34=-29 (F), 35=-29 (F), 36=-29 (F), 37=-29 (F), 38=-29 (F)



Image Trade Price Type Op Price Oppose Database P240000 Los 200 Construction of the second of the																RELEA	SE FOR CONSTRUCTION
21009-A Aris Read Special 1 2 Demotration control Less survey and control of the control o	Job		Truss			Truss T	уре			Qty	/ Ply	y	Clayton B	uilder-P2	4098	AS NO Lot 209- 2750	TED FOR PLAN REVIEW SW 11th Terr ELOPMENT SERVICES
Data Linkser of Linkseb, Danks, C.O. R271, Built BLS De 2 ADD FRIE BLS DE 2 CASH MTR Addation to a Durab CHR 70/2022 Diversion of Linkseb, Danks, C.O. R271, Diversion of Linkseb, Danks, C.O. R271, Diversion of Linkseb, Danks, C.O. R271, Diversion of Linkseb, Danks, C.O. R271, Diversion of Linkseb, Danks, C.O. R271, Diversion of Linkseb, Danks, C.O. R271, Diversion of Linkseb, Danks, C.O. R271, Diversion of Linkseb, Danks, C.O. R271, Diversion of Linkseb, Danks, C.O. R271, Diversion of Linkseb, Danks, C.O. R271, Diversion of Linkseb, Danks, C.O. R271, Diversion of Linkseb, Danks, Danks, C.O. R271, Diversion of Linkseb, Danks, C.O. R271, Diversion of Linkseb, Danks, C.O. R271, Diversion of Linkseb, Danks, C.O. R271, Diversion of Linkseb, Danks, Danks, C.O. R271, Diversion of Linkseb, Danks, Danks, C.O. R271, Diversion of Linkseb, Danks, Dan	241089-A		A15			Roof S	pecial			1	2		Job Refer	ence (opt	tional	LEE	R85979622 'S SUMMIT, MISSOURI
	Direct Lumber of	f Colorado, Denve	er, CO - 8	30221,				Run	: 8.83 S Dec	2 4 2024 F	Print: 8.830 S	S Dec 42	024 MiTek I	ndustries,	Inc. F	Dec 27 12 46 49	/07/2025
24** Edds 3x4 = 2x4 = 3x4 = 0.1-12 4.0.8 5.8.8 11.6.2 16.2.0 4.9.10 4.7.14 4.5.12 4.6.4 3.4.7 3.4.1 State = 163.6 Plate Offeets (X, Y): (2.0-8.0.2.8], (7.0.3.8.0.1.8], (11.0.4-5.Edge], (21.0-8.0.2.4) Colspan="4">Diffeet Offeet Only Diffeet Offeet Only Colspan="4">Diffeet Offeet Only Colspan="4">Diffeet Offeet Only Colspan="4">Diffeet Only Diffeet Only Colspan="4">Diffeet Only Diffeet Only Diffe	2-9-13 2-9-13 2-0-12	1-0-12 0-9-1 0-1-9 0-1-9	3x4 II 3x4 II 4x10=	4-2-4 4-2-4	4 ¹² 4 ¹² 20 2x4 II	4x4= 3 19 4x10=	<u>11-6-2</u> 4-7-14 ⊠ ⊠	3x8= 4 22⊠ 18 2x4 ∎	<u>16-3-12</u> 4-9-10	31-10-8 2x4 ι ∞5 16	20-7-1: 4-4-0 1 3x4 1 6 1 €	2 4= 3x8 23 7 15	<u>25-C</u> 4-4-	- <u>4</u> -8 	x6=	28-6-6 3-6-3	32-9-8 <u>31-10-8</u>
Loading TCLL (root) (pst) 25.0 Spacing Plate Grip DOL Lumber DOL 1.15 2-0-0 TC CSI TC DEFL 0.41 in (loc) Uddet L/d PLATES GRIP ICDL 10.0 Reg Stress Incr YES Wei 0.41 Vert(CT) 0.68 17.48 -797 240 180.01 Million BCL 10.0 Code IRC20187P12014 Watrix-S Vert(CT) 0.68 17.48 -797 240.018 BCDL 10.0 Code IRC20187P12014 Watrix-S Loade TA No <	Scale = 1:63.6 Plate Offsets ($6x12 = \begin{array}{c} 15\\ 2x4 \\ 11\\ 6x8 = \end{array}$									3x4=	2x4 II 28-6-6 3-4-7	3x6 II 3-1-10-8 3-4-1				
TCLL (root) 25.0 Piare Gip DOL 1.15 TC 0.41 1.00 Verticity -9.40 MT20 197/144 BCL 0.00 Rep Stress Incr YES WB 0.46 Horz(CT) 0.16 11 n/a n/a Weight 252 ib FT = 20% BCDL 10.0 Code IRC2018/TPI2014 WB 0.46 Horz(CT) 0.16 11 n/a n/a Weight 252 ib FT = 20% UMBER Code IRC2018/TPI2014 Weight 262 is and and is compacted together with 10d LOAD CASE(S) Standard UMBER 2/4 SPF No.2 Streament 20, 30 and	Loading		(psf)	Spacing		2-0-0		CSI			DEFL	i	n (loc)	l/defl	L/d	PLATES	GRIP
BCLL 0.0 Rep Stress Incr YES WB 0.46 Horz(CT) 0.16 11 n/a Main LUMBER 10.0 Code IRC21817TP12014 Matrix-S Weight 252 lb FT = 20% LUMBER 10.0 2x4 SPF No.2 IRC21817TP12014 Matrix-S Lobal CASE(S) Standard DOT CHORD 2x4 SPF No.2 Except 21-17:2x4 SPF Dot common control to compare the standard Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Dot CASE(S) Standard SLDER Right 2x4 SPF No.2 Except 10 rotods as form (1/p or back (B) lace in the LOAD CASE(S) Standard SLDER Right 2x4 SPF No.2 Except 10 rotods as form (1/p or back (B) lace in the LOAD CASE(S) Standard SLDER Right 2x4 SPF No.2 Except 10 rotods as form (1/p or back (B) lace in the LOAD CASE(S) Standard SLDER Right 2x4 SPF No.2 Interior (1) rotods as form (1/p or back (B) lace in the LOAD CASE(S) Standard Aux loging interior applied or 10-0-0 or bracing. Top chords as form (1/p or back (B) lace in the LOAD CASE(S) Standard Unbalanced coof I/w loads	TCLL (roof) TCDL		25.0 10.0	Plate Gr Lumber	ip DOL DOL	1.15 1.15		TC BC		0.41 0.72	Vert(LL) Vert(CT)	-0.4 -0.8	8 17-18 6 17-18	>797 >440	240 180	MT20	197/144
 LUMBER TOP CHORD 2x4 SPF No.2 "Except" 21-17:2x4 SPF BOT CHORD 2x4 SPF No.2 "Except" 21-17:2x4 SPF GOT CHORD 2x4 SPF No.2 "Except and verticals, and 2-0-0 cc. Web connected as follows: 2x4 - 1 row at 0-9-0 cc. BOT CHORD Structural wood sheathing directly applied or 10-0-0 cc bracing. REACTIONS (size) 11-0-5-8, 21- Mechanical Max Horiz 21-74 (LC 13) Max Grav 11-1439 (LC 9), 21-301 (LC 8) Max Grav 11-1439 (LC 9), 21-301 (LC 8) Max Grav 11-1439 (LC 1), 21-1427 (LC 1) Max Grav 11-1439 (LC 1), 21-1427 (LC 1) Max Grav 11-1439 (LC 9), 21-301 (LC 8) Max Grav 11-1439 (LC 9), 21-301 (LC 8) Max Grav 11-1439 (LC 9), 21-301 (LC 8) Max Grav 11-1439 (LC 1), 21-1427 (LC 1) Max Grav 11-1439 (LC 9), 21-301 (LC 8) Max Grav 11-1439 (LC 9), 21-301 (LC 8) Max Grav 11-1439 (LC 1), 21-1427 (LC 1) Max G	BCLL BCDL		0.0 10.0	Rep Stre Code	ess Incr	YES IRC2018	3/TPI2014	WB Matrix	k-S	0.46	Horz(CT)	0.1	6 11	n/a	n/a	Weight: 252 I	b FT = 20%
NOTES R802.10.2 and referenced standard ANSI/TPI 1. 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. Image: Comparison of the purlin along the top and/or bottom chord.	LUMBER TOP CHORD BOT CHORD SLIDER BRACING TOP CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS	2x4 SPF No.: 2x4 SPF No.: 1650F 1.5E 2x4 SPF No.: Right 2x4 SPF Structural wc 5-4-3 oc purl 2-0-0 oc purl Rigid ceiling bracing. (size) 11 Max Horiz 21 Max Uplift 11 Max Grav 11 (b) - Maximu Tension 1-21=-216/10 2-3=-5109/17 7-8=-4163/10 9-11=-3037/7 20-21=-13600 18-19=-13512 16-17=0/92, 1 14-15=-650/2 11-13=-635/2 2-21=-5564/1 3-19=-237/12 4-17=-169/65 7-15=-1447/3 8-15=-314/14 2-20=-216/10	2 2 *Excel 2 bod shea ins, exc ins, exc ins, exc ins (4-2- directly =0-5-8, =-74 (LC =-343 (I =1493 (um Comp 06, 1-2= 236, 3-4: 702, 5-7: 229, 8-9: 748, 11- /(5928, 1 /(5928, 1 /(5928, 1 2992, 13 2728 1356, 2- 242, 8-1: 398, 4-19 399, 7-1 408, 15- 08, 9-14:	pt* 21-17: 1-8-11 athing direcent cept end v -6 max.): applied on 21= Mech C 13) LC 9), 21= (LC 1), 21: pression/I 482/120, 482/120, 	2x4 SPF ectly applied erticals, and 1-2, 3-8. 10-0-0 oc hanical =-301 (LC 8) =1427 (LC 4) Maximum 176, 535, 12/6820, 5-16=-123/5 (2728, /319, 5, 19, 4-18=0/1 088, 1670, 9-13=-17/7	1) or 2) d 3)) (1) (1) (1) (1) (1) (1) (1)	2-ply truss (0.131"x3") Top chords oc. Bottom cho 0-9-0 oc. Web conne All loads at except if nc CASE(S) s provided to unbalance this design Wind: ASC Vasd=91m Ke=1.00; CC exterior zoo Interior (1) 11-10-4, In 25-0-4 to 3 cantilever 1 right expos for reactior DOL=1.60 Provide ad This truss 1 chord live 1 Bearings a Refer to gil Provide md bearing pla 11 and 301) This truss i Internation. R802.10.2) Graphical g or the orier bottom cho	to be cor nails as connect ords connect ords	nnected tog follows: ed as follow nected as follow ered equall level only follows: 2x4 ered equall by to ply co e only load dicated. e loads haw /ult=115mp _=6.0psf; B p C; Enclos C Exterior 6-10-4, Ext 11-10-4 to reind (1) 30 ght expose or member ; Lumber D rainage to I designed to concurrent i ned to be: , r truss to tr connection le of withst at joint 21. ed in accor ential Code renced star resentation	yether will ws: 2x4 - bollows: 2x 4 - 1 row ly applied ack (B) fi nnections is noted a ve been of bh (3-sec CDL=6.0 Sed; MW (2E) 0-1. (2E) 0-1. (2	h 10d 1 row at 0 (4 - 1 row at at 0-9-0 or 4 to all plie: acc in the s have bees as (F) or (E considered ond gust))psf; h=351 FRS (enve 12 to 4-2-4 6-10-4 to Exterior(2F 2-9-8 zone ertical left ces & MW plate grip vater pond 0 psf bottor other live 1 SPF No.2 ections. ars) of trus 43 lb uplift th the 201: R502.11.' SI/TPI 1. t depict th top and/o	9-9-0 at c. s, LOAD en 3), I for ft; elope) 4, ?) e; and FRS ing. mooads. · s to : at joint 8 1 and e size r	LOAD	CASE(S)	Sta	ndard	MISSOLUTI TT M. VIER JUINER

A00 Sunrise Ave., Suite 270 Roseville, CA 95661 916.755.3571 / MiTek-US.com

													R	ELEASE FO	R CONSTRUCTION	
Job		Truss		Truss Ty	vpe		Qty	/	Ply	Clayton Bu	ilder-P2	40989	-Lot 209-	S NOTED F 2750 SW 1 DEVELOPN	DR PLAN REVIEW]
241089-A		A14		Roof S	pecial		1		1	Job Refere	ence (op	tional		LEE'S SUN	R85979623 MIT, MISSOURI	
Direct Lumber of	f Colorado, Denv	er, CO - 8	30221,			Run: 8.83 S Dec	4 2024 I	Print: 8.8	30 S Dec 4	2024 MiTek I	ndustries,	Inc. Fli	Dec 27 12	4649	7/2025)
						ID:KQppvvn02WF	oar5z2_r	(DYIZDV2	2P-RIC?PSE	370Hq3NSgP0	nrswan	XDGK	WICDOI/5		/_0_0	
			6.2.4	9 10 4		16 2 12			22.0.4		27	6.6		21 10 9	32-9-8	
	F		6-2-4	2-8-0	1	7-5-8			6-8-8		4-	-6-3		4-4-1		
	F					3	1-10-8								0-11-0	
	ľ														I	
				4 ¹² 4	x10=											
~			M18AHS	10x14 =		47	3x6 =	10		6x8	=					
3-7-7 5-13		6=	÷ – 16 2 ℃	3			_⊠ ⁴	⊠°			°		3x4 ≈			
7 3-E						B							619) 3x6≥		
3-7								\leq							8 0 0	
\perp	M18A	, ⊖ HS 5¥14_	.=	1 4)	4 (10=		.12						le			
							3x4 I			1 <i>*</i> 6x1	0=		10 2x4 µ		⊠ 5x8=	
						M18AHS 10	x16 =						-			
	0-1-1	12	8-8-8		1	16-2-0	1		23-2-0	i	27	'-6-6	1	31-10-8	I	
	⊓⊤ 0-1-1	12	8-6-12		1	7-5-8	I		7-0-0	Т	4	-4-7	I	4-4-1		
Scale = 1:63.7																_
Plate Offsets (X, Y): [2:0-7-0),0-2-2],	[8:0-0-5,0-3-5], [13:0	-11-8,0-5-	0], [15:0-10-8	,0-2-8]										_
Loading		(psf) 25.0	Spacing	2-0-0 1 15		CSI TC	0 99	DEFL	L) -0	in (loc) 60 13-14	I/defl ⊳632	L/d 240	PLATE	S GI	RIP 7/144	
TCDL		10.0	Lumber DOL	1.15		BC	0.81	Vert(C	C) -1.	11 13-14	>342	180	M18AH	S 14	2/136	
BCLL BCDL		0.0 10.0	Rep Stress Incr Code	IRC2018	/TPI2014	Matrix-S	0.92	Horz(J) 0.	25 8	n/a	n/a	Weight:	128 lb F1	= 20%	
LUMBER				2)	Wind: ASCE	7-16; Vult=115mp	h (3-sec	ond gu	st)							-
TOP CHORD	2x4 SPF No. 1.8E	.2 *Exce	pt* 3-5:2x4 SPF 210	DF	Vasd=91mpl Ke=1.00; Ca	h; TCDL=6.0psf; B it. II; Exp C; Enclos	CDL=6.0 sed; MW	0psf; h= FRS (ei	35ft; nvelope)							
BOT CHORD	2x4 SPF No.	2 *Exce	pt* 15-13:2x4 SPF		exterior zone	e and C-C Exterior	(2E) 0-1	-12 to 5	-1-12, ´							
WEBS	2x4 SPF No.	.2	0.0.40		13-10-4, Inte	erior (1) 13-10-4 to	23-0-4,	Exterior	(2R)							
BRACING	Right 2x4 SF	PF NO.2	2-2-12		cantilever lef	ft and right expose	d ; end v	ertical I	eft and							
TOP CHORD	Structural we 2-0-11 oc pu	ood shea Irlins. ex	athing directly applie cept end verticals.	d or nd	for reactions	shown; Lumber D	OL=1.60	ces & N) plate g	nvv=RS grip							
	2-0-0 oc pur	lins (2-2-	-0 max.): 1-2, 3-5.	3)	DOL=1.60 Provide adeo	quate drainage to	orevent	vater po	onding.							
WEDO	bracing.	directly		4) 5)	All plates are This truss ha	e MT20 plates unle as been designed f	ess other	wise ind) psf bo	dicated. ttom							
WEBS	2 Rows at 1/	/3 pts	2-15	6)	chord live loa	ad nonconcurrent	with any	other liv	/e loads.							
REACTIONS	(size) 8= Max Horiz 15	=0-5-8, 1 5=-88 (L(5= Mechanical C 13)	7)	Refer to gird	er(s) for truss to tr	uss conr	ections	2 .							
	Max Uplift 8=	=-334 (L(-1493 (L	C 9), 15=-294 (LC 8)	8)	bearing plate	e capable of withst	n (by oth anding 3	ers) of t 34 lb up	russ to plift at join	t						
FORCES	(lb) - Maximu	um Com	pression/Maximum	, 9)	8 and 294 lb This truss is	uplift at joint 15. designed in accord	dance w	ith the 2	2018							
TOP CHORD	Tension 1-15=-242/1	38, 1-2=	-235/62,		International R802.10.2 a	Residential Code nd referenced star	sections	R502.1	11.1 and 1.							
	2-3=-4400/1 4-5=-5550/1	051, 3-4 375, 5-6	=-4076/997, =-3036/760.	10]	Graphical pu	Irlin representation	does no	top an	t the size					2000	-	
	6-8=-3163/7	82, 8-9=	-4/0 3-141280/5717		bottom chore	d.	along the		4/01				Fre	OF MI	1028	
BOT CHORD	12-13=0/130), 4-13=-	215/168, 11-12=-69/	336, LO	AD CASE(S)	Standard						B	N	SCOTT M	No.	
WEBS	10-11=-672/2 2-15=-5152/	2862, 8- 1344, 2-	10=-672/2862 14=-1271/426,									B	7	SEVIER	· /~ 8	
	3-14=-178/1 11-13=-550/2	120, 4-1 2573, 5-	4=-1884/490, 13=-650/2782,									8/2			0 2	
NOTES	5-11=-316/1	51, 6-11	=-32/237, 6-10=0/11	8							_		col	NUMPE	arrien	
1) Unbalance	ed roof live load	ds have	been considered for								-	Ø.	PE	2-2001018	807	
this design	1.											Y	223	0111	NOL	
													D	UNAL	S	
													Dec	ember 27	,2024	



									RELEASE	FOR CONSTRUCTION
Job	Tru	ISS	Truss Type		Qty	Ply	Clayton Bui	der-P24098	AS NOTE 9-Lot 209- 2750 S DEVEL	D FOR PLAN REVIEW W 11th Terr OPMENT SERVICES
241089-A	A1	3	Roof Special		1	1	Job Referer	nce (optional	LEE'S	R85979624 SUMMIT, MISSOURI
Direct Lumber of	f Colorado, Denver, C	O - 80221,		Run: 8.83 S Dec 4 20	24 Print: 8.8	30 S Dec 42	2024 MiTek Ind	dustries, Inc. F	i Dec 27 12 46 48)7/2025
		1-2-4 + 4-8-4 - 3-6-0 1-2-4 	8-2-4 10-10-4 3-6-0 2-8-0	16-3-12 	10-8	<u>21-0-4</u> 4-8-8	<u>25</u> . 4.	<u>-9-12</u> 9-8	<u>31-10-8</u> 6-0-12	32-9-8
4-3-7 4-1-13 3-4-12	1 2-3-3 # # 2-3-3 # # 0-1-9 6 4-3-70-1-9 0-1-9	4^{12} 4x4= 5x5 = 4x6= 1^{2} 3x8 = 6x8=	$5 - 6 \times 10 = 5$ 20 - 4 17 $3 \times 8 = 5$	4x6= 16 16 8x14=	4x4 = 16 ⊠ 16 ⊠ 15 1 ± 2x4 ⊪		6x6= 7 13 8x8=	3x	4 = 3x4 = 2 9 55 55 55 55 55 55 55 55 55 55 55 55 5	3x4≈ 10 11 0 5x8=
Scale = 1:64.7	0-^ 0- C	1-0-8 1-12 <u>8-4-0</u> <u> 7-3-8</u> 1-12)-10-12	<u>10-8-8</u> 2-4-8	16-2-0 5-5-8	-	<u>21-2-0</u> 5-0-0	<u> 25</u> 4-	-9-12 7-12	<u>31-10-8</u> 6-0-12	
Plate Offsets (2	X, Y): [4:0-4-12,E	dge], [10:0-0-5,0-3-5], [1	5:0-10-4,Edge], [17:0-3-	8,0-1-8], [19:0-4-8,0-1-8]				1	
Loading TCLL (roof) TCDL BCLL BCDL	(psf 25.0 10.0 0.0 10.0	 Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code 	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC 0.7 BC 0.7 WB 0.7 Matrix-S 0.7	3 Vert(L 9 Vert(C 7 Horz(0	L) -0.3 CT) -0.6 CT) 0.1	in (loc) 36 15-16 57 15-16 19 10	l/defl L/d >999 240 >565 180 n/a n/a	PLATES MT20 Weight: 136 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD SLIDER BRACING TOP CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD	2x4 SPF No.2 *E 1650F 1.5E 2x4 SPF No.2 *E 1650F 1.5E 2x4 SPF No.2 Right 2x4 SPF NO.2 Comparison of the second second 2-3-0 oc purlins (Rigid ceiling dire bracing. (size) 10=0-1 Max Horiz 19=-11 Max Uplift 10=-33 Max Horiz 19=-14 (lb) - Maximum C Tension 1-2=-738/168, 2- 3-4=-4290/1045, 5-6=-3514/908, (7-8=-2816/738, 8 1-19=-1496/310 18-19=-61/139, 1 6-17=-890/4211 14-15=0/93, 6-15 12-13=-673/2924 2-18=0/100, 4-17 5-16=-168/927, 6 13-15=-529/253	Except* 19-15:2x4 SPF lo.2 3-2-9 sheathing directly applied except end verticals, an (2-5-3 max.): 2-4, 5-7. ctly applied or 7-2-2 oc 5-8, 19= Mechanical 03 (LC 13) 23 (LC 9), 19=-286 (LC & 193 (LC 1), 19=1427 (LC Compression/Maximum -3=-710/170, 4-5=-3755/948, 5-7=-4211/1086, 8-10=-3214/789, 10-11=- 17-18=-613/2807, 0, 15-16=-935/4261, 5=-187/139, 13-14=-47/1 4, 10-12=-673/2924 7=-721/233, 4-16=-884/2 6-16=-1020/249, 4, 7-15=-410/1780,	 2) Wind: ASCE Vasd=91mp Ke=1.00; Cč exterior zon Exterior(2R) 14-10-4, Ext 19-10-4 to 2 right expose for members Lumber DO(3) Provide adde (4) This truss his chord live lo 3) Provide adde (4) This truss his chord live lo 5) Bearings and (5) Bearings and (6) Refer to gird (7) Provide med bearing plat 10 and 286 (8) This truss is Internationa R802.10.2 at 802.10.2 at (4) 9) Graphical pu or the orient bottom chor 4/0, 9) Graphical pu or the orient bottom chor 4/4, 02, 	 F-16; Vult=115mph (3-ih; TCDL=6.0psf; BCDL= at. II; Exp C; Enclosed; N e and C-C Exterior(2E) 4 5-2-4 to 10-2-4, Interior terior(2R) 14-10-4 to 19- 5-0-4, Exterior(2R) 25-0 29-9-12 to 36-9-8 zone; cid; end vertical left and is and forces & MWFRS 1 L=1.60 plate grip DOL=1 quate drainage to preve as been designed for a 1 ad nonconcurrent with a e assumed to be: , Joint Jer(s) for truss to truss ci- chanical connection (by ci- e capable of withstandin lb uplift at joint 19. designed in accordance I Residential Code sectiti and referenced standard urlin representation does ation of the purlin along d. Standard 	second gu: 6.0psf; h= IWFRS (e) 1-1-12 to 5 (1) 10-2-4 10-4, Inter 4 to 29-9- antilever I ight expos- or reaction .60 nt water pro- 0.0 ps fbo- 0.0 ps fbo- 0.0 ps fbo- 10 SPF No- net depict and the 2 pros R502- ANSI/TPI with the 2 pros R502- ANSI/TPI the top an	st) 35ft; nvelope) -2-4, to ior (1) 12, eft and sed;C-C ns shown; onding. ttom ve loads. o.2. : russ to polift at joint 2018 11.1 and 1. t the size d/or			STATE OF M STATE SCOTT SEVI	AISSOURI T.M. ER
NOTES 1) Unbalance this design	7-13=-379/131, (1-18=-302/1456, 3-18=-2422/694 ed roof live loads ha	a13=-359/176, 8-12=0/2 , 3-17=-340/1659, ave been considered for	08,						PE-20010	27,2024



							RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	CG1	Diagonal Hip Girder		2	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Denv	er, CO - 80221,		Run: 8.83 S Dec 4 2 ID:7F6Nn7n8gozSfFF	024 Print: 8.8 Lify9fuzDuz	330 S Dec 4 /-RfC?PsB7(2024 MiTek Industries, Inc. F)Hq3NSgPqnL8w3uITXbGKW	I Dec 27 134651/07/21925 CDoi7 J4262?



Scale = 1:22.9

Plate Offsets (X, Y): [2:0-2-6,0-0-3]

_oading FCLL (roof) FCDL 3CLL 3CDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-P	0.87 0.56 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.13 -0.26 0.00	(loc) 2-5 2-5 5	l/defl >633 >317 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 23 lb	GRIP 197/144 FT = 20%
LUMBER FOP CHORD 30T CHORD WEBS SLIDER BRACING FOP CHORD 30T CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Left 2x4 WW Stud Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 2=0-7-6, 1 Max Horiz 2=89 (LC Max Uplift 2=-79 (LC	3-5-4 athing directly applie cept end verticals. applied or 10-0-0 or 5= Mechanical 9) 2 8), 5=-67 (LC 12)	7) ed or ^C 8) LC 1)	Hanger(s) or provided suff lb down and up at 1-4-9, 28 lb down a up at 1-4-8, and 12 lb do selection of s responsibility In the LOAD of the truss a DAD CASE(S) Dead + Roo Plate Increa	o ther connection of ficient to support ca 125 lb up at 1-4-8 and 28 lb down an ind 82 lb up at 4-2 15 lb up at 1-4-9, wn at 4-2-8 on bot such connection de of others. CASE(S) section, are noted as front (Standard of Live (balanced): ase=115	device(s pricentra , 142 lb id 82 lb -8 on to and 12 tom cho evice(s) loads a F) or ba) shall be tited load(s) 1 down and 12 up at 4-2-8, o chord, and b down at 4 rd. The des is the oplied to the ck (B). Increase=1.	142 25 lb and 15 lb -2-8, ign/ face 15,					
FORCES TOP CHORD 30T CHORD NOTES 1) Wind: ASI Vasd=91r Ke=1.00; exterior 2 Exterior(2 right expo	Max Grav 2=349 (L0 (lb) - Maximum Corr Tension 1-2=-5/0, 2-4=-187/7 2-5=-41/44 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Correr (3 R) 5-9-5 to 6-9-10 zon sed ; end vertical left a	C 1), 5=283 (LC 1) pression/Maximum 75, 4-5=-215/229 (3-second gust) :DL=6.0psf; h=35ft; :d; IMWFRS (envelop) -1-3-9 to 5-9-5, e; cantilever left and and right exposed;C-	De) C	Uniform Lo Vert: 1-4 Concentrate Vert: 6=7	ads (Ib/ft) =-70, 2-5=-20 ed Loads (Ib) '1 (F=36, B=36), 10	0=0 (F=	0, B=0)					SSE OF I	MISSO

- for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.Bearings are assumed to be: Joint 2 SPF No.2 .
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 5 and 79 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



400 Sunrise Ave., Suite 270 Roseville, CA 95661 916.755.3571 / MiTek-US.com

SCOTT M.

SEVIER

							RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J16	Jack-Open		12	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Denv	er, CO - 80221,		Run: 8.83 S Dec 4 2	024 Print: 8.8	330 S Dec 4	2024 MiTek Industries, Inc. F	Dec 27 12 46 56 07 200 7 5

ID:TxNrG0ecV6T9DPK1?8kLAMzDuzk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDor4zsO?tU7/2020



Scale = 1:20.1

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

Plate Olisets (A, T). [2.	0-1-8,0-0-5]			-									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.47	Vert(LL)	-0.04	2-5	>999	240	MT20	169/123	
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.07	2-5	>831	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	4	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%	
LUMBER			LOAD CASE(S)	Standard									

TOP CHORD	2x4 SPF I	No.2
BOT CHORD	2x4 SPF I	No.2
SLIDER	Left 2x4 V	VW Stud 2-7-14
BRACING		
TOP CHORD	Structura	I wood sheathing directly applied or
	5-0-0 oc p	ourlins.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	2=0-5-8, 4= Mechanical, 5=
		Mechanical
	Max Horiz	2=86 (LC 12)
	Max Uplift	2=-77 (LC 8), 4=-94 (LC 12)
	Max Grav	2=292 (LC 1), 4=167 (LC 1), 5=99
		(LC 3)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=-4/0,	2-4=-90/55
BOT CHORD	2-5=0/0	

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 4-11-4 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Bearings are assumed to be: , Joint 2 SPF No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 4 and 77 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J17	Jack-Open	4	1	Job Reference (optional	R85979627 LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado Dopus	r CO 80221	Bun: 9.82 6 Dec. 4.2	0.2.4 Drint: 0.0	20 6 Dec. 4	2024 MiTak Industrias Inc. E	

ID:7F6Nn7n8gozSfFElfy9fuzDuzY-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J42dC? 24 MiTek li





	2-10-15	
Scale = 1:17.4	I	
Plate Offsets (X, Y): [2:0-1-8,0-0-5]		

											_		
Loading		(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	0.00	2-5	>999	240	MT20	169/123
TCDL		10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	2-5	>999	180		
BCLL		0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%
			-	LOAD CASE(S)	Standard								
TOP CHORD	2x4 SPF	No.2		()									
BOT CHORD	2x4 SPF	No.2											
SLIDER	Left 2x4 \	WW Stud	1-6-11										
BRACING													
TOP CHORD	Structura	I wood shea	athing directly applie	ed or									
	2-10-15 0	oc purlins.											
BOT CHORD	HORD Rigid ceiling directly applied or 10-0-0 oc												
	bracing.												
REACTIONS	(size)	2=0-5-8, 4	l= Mechanical, 5=										
		Mechanic	al										
	Max Horiz	2=55 (LC	12)										
	Max Uplift	2=-64 (LC	8), 4=-55 (LC 12)										
	Max Grav	2=203 (LC	C 1), 4=89 (LC 1), 5=	=57									
		(LC 3)											
FORCES	(Ib) - Max Tension	amum Com	pression/Maximum										
TOP CHORD	1-2=-4/0,	2-4=-57/31											
BOT CHORD	2-5=0/0												
NOTES													
1) Wind: ASC	CE 7-16; Vu	lt=115mph	(3-second gust)										
Vasd=91n	nph; TCDL=	6.0psf; BC	DL=6.0psf; h=35ft;										
Ke=1.00;	Cat. II; Exp	C; Enclose	d; MWFRS (envelop	pe)								000	TIC
exterior zone and C-C Exterior(2E) zone; cantilever left											OF M	ALC: A	
and right e	exposed ; e	nd vertical I	ett and right expose	ed;C-								Fre	N OSCIL
C for men	C for members and forces & MWFRS for reactions												

- shown; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Bearings are assumed to be: , Joint 2 SPF No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 55 lb uplift at joint 4 and 64 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J18	Jack-Open	4	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Don	(or CO 90221	Run: 9.92 S. Doc. 4.2	024 Dript: 9	820 S Doc 4	2024 MiTok Industrios, Inc. Fi	

ID:7F6Nn7n8gozSfFFLify9fuzDuzY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWcDoi7J42dC?

0-10-15



Scale = 1:22.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.00	Vert(CT)	0.00	5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI201	4 Matrix-P		-	_				Weight: 4 lb	FT = 20%
LUMBER			6) This tru	ss is designed in ac	cordance w	ith the 2018						
TOP CHORD	2x4 SPF No 2		Interna	tional Residential Co	ode sections	R502.11.1 a	and					
BOT CHORD	2x4 SPF No.2		R802.1	0.2 and referenced	standard AN	ISI/TPI 1.						
WEBS	2x4 SPF No.2		LOAD CAS	E(S) Standard								
BRACING				(1)								
TOP CHORD	CHORD Structural wood sheathing directly applied or											
	0-10-15 oc purlins, except end verticals.											
BOT CHORD	Rigid ceiling dire	ctly applied or 10-0-0 of	C									
	bracing.											
REACTIONS	(size) 3= Me	chanical, 4= Mechanic	al,									
	5=0-5-	8										
	Max Horiz 5=25 (LC 11)										
	Max Uplift 3=-26	(LC 1), 4=-10 (LC 8), 5	5=-79									
	(LC 8)											
	Max Grav 3=26 (LC 8), 4=15 (LC 3), 5=	=161									
	(LC 1)											
FORCES	(lb) - Maximum C	ompression/Maximum	ı									
	Tension											
TOP CHORD	2-5=-165/182, 1-2	2=0/24, 2-3=-25/14										
BOT CHORD	CHORD 4-5=-53/8											
WEBS	2-4=-9/61											

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 5 SPF No.2 . 3)
- Refer to girder(s) for truss to truss connections. 4)
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 5, 10 lb uplift at joint 4 and 26 lb uplift at joint 3.





						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW I-Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	LG7	Lay-In Gable	1	1	Job Reference (optional	R85979629 LEE'S SUMMIT, MISSOURI
	•					

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. F Dec 27 (1246)58/07/29:25 ID:eH40YuMhUzCf3ojUfMRsA7zDv5q-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDoi+4zJC?f





21-8-0

Plate Offsets (X, Y):	[6:0-1-7,Edge], [9:0-1-7,Edge]

Loading		(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		тс	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0	Rep Stress Incr	YES		WB	0.23	Horiz(TL)	0.01	14	n/a	n/a		
BCDL		10.0	Code	IRC20)18/TPI2014	Matrix-S		- ()					Weight: 123 lb	FT = 20%
						1 25- 157/240 24 1	25- 15	7/240		10) Pro	uido mo	bonio	al connection (by	others) of truce to
						1-20=-107/249, 24-2 23-24-157/249, 24-2	20=-10	77249, 57/270		10) PIO	ring plat		al connection (by	ouners) or truss to
	284 5PF					20-22-157/249, 22	-201	57/245,		1 8	2 lb unlit	t at ioi	nt 1/ 138 lb unlif	t at joint 25, 135 lb
	284 5PF					18-10-157/249, 19	-201	57/249, 57/249		unli	t at ioint	24 1	13 lb unlift at ioint	23 121 lb unlift at
UTHERS	284 585	N0.2				16-17-157/240, 15	-161	57/240		ioin	+ 22 27	bunlif	t at joint 20 117 l	b unlift at joint 18
BRACING	-					14-15-157/249, 13	-10=-1	517245,		145	lb unlift	at ioin	t 17 134 lb unlift	at joint 16 and 138 lb
TOP CHORD	Structura	I wood shea	athing directly applie	d or	WEBS	2-25218/156 3-2	1222	/160		unli	ft at ioint	15		
	6-0-0 oc	purlins, exc	ept		WLD5	4-23220/167 5-2	+=-222 2- - 207	/146		11) This	truce is	desia	ned in accordanc	e with the 2018
	2-0-0 oc	purlins (6-0	-0 max.): 6-9.			7-20-155/63 8-19-	130//	16		Inte	rnationa	l Resir	tential Code sect	ions R502 11 1 and
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 oc	:		10-18=-207/141 11	-17=-2	29/169		R80	12 10 2 2	ind ref	erenced standard	ANSI/TPI 1
	bracing.					12-16=-222/160 13	-15=-2	18/156		12) Gra	nhical n	urlin re	presentation doe	s not denict the size
WEBS	1 Row at	midpt	7-20, 8-19		NOTES					or th	ne orient	ation	of the purlin along	the top and/or
REACTIONS	(size)	1=21-8-0,	14=21-8-0, 15=21-8	-0,	NUIES	reaf live leads have			_	bott	om chor	d		
		16=21-8-0), 17=21-8-0, 18=21-	·8-0,	this design	TOOL IIVE IDads have	been	considered to			ASE(S)	Sta	ndard	
		19=21-8-0), 20=21-8-0, 22=21-	8-0,		7 16. Vult 115mph	(2	and quat)		LOAD		Otai	laara	
		23=21-8-0), 24=21-8-0, 25=21-	-8-0	2) Wind. ASCE	r = 10, $v = 110$	1 (3-500 - IO	Ond gust)						
	Max Horiz	1=281 (LC	;9) 2 (9)		Ke-1 00. Ca	at II: Exp C: Enclose	d MM	ERS (envelor						
	Max Uplift	1=-137 (L	C 10), 14=-82 (LC 1	1),	exterior zon	e and C-C Exterior(2E) 0-4	-1 to 5-4-1	(0)					
		15=-138 (LC 13), 16=-134 (LC	: 13),	Interior (1) 5	-4-1 to 9-8-2 Exterior	or(2E)	9_8_2 to 12_0_	5					
		17=-145 (LC 13), 18=-117 (LC	(13),	Exterior(2R)	12-0-5 to 19-1-3 In	terior (1) 19-1-3 to	0,					
		20=-27 (L	C 11), 22=-121 (LC 1	12),	21-4-6 zone	: cantilever left and	right ex	nosed · end						
		23=-143 (LC 12), 24=-135 (LC	-12),	vertical left a	and right exposed:C	-C for r	nembers and						
	May 0	25=-138 (LU IZ)		forces & MV	VFRS for reactions s	shown.	Lumber						
	Max Grav	1=257 (LC	- 12), 14=220 (LC 13	5),)))	DOL=1.60 p	late grip DOL=1.60	,	2011001						The second se
		15=209 (L	C 22), 10=200 (LC 2	(22),	 Truss design 	ned for wind loads in	the pl	ane of the tru	SS				A DE	1000
		17=200 (L	C 22), 10=205 (LC 2	(22),	only. For st	uds exposed to wind	l (norm	al to the face).				B.F. OF I	11SS C
		19=107 (L	C 23), 20 = 192 (LC 2)	24), 21)	see Standar	d Industry Gable En	d Deta	ils as applicat	ble,			6	- AL	- Cord
		22=210 (L	C 21, $23=200$ (LC 2	21), 21)	or consult q	ualified building desi	gner a	s per ANSI/TF	ข 1.			B	SCOTT	M X N
		24=200 (L	C 2 1), 23=203 (LC 2		 Provide ade 	quate drainage to p	revent	water ponding	1.			R		
FURCES	(ID) - Max	amum Com	pression/waximum		5) All plates ar	e 2x4 () MT20 unle	ess oth	erwise indicat	ed.			12	SEVI	
	1 2_ 272	210 2 2-	245/201 2 4- 175/4	51	6) Gable requi	res continuous botto	m choi	d bearing.				Mo	1 1 1 -	0
TOP CHORD	1-2=-372	/249, 2-3= /174 E C	243/201, 3-4=-173/1	ວາ, . ວວ	7) Gable studs	spaced at 0-0-0 oc.		0				XX.		· So h lot
	7-8-178	/183 8-0	220/234, 0-7=-170/1 178/183 0-10226/	220	B) This truss has a second s	as been designed fo	r a 10.	0 psf bottom			C		CON LIM	
	10-111	56/125 11	.12110/75	220,	chord live lo	ad nonconcurrent w	ith any	other live loa	ds.			17	DE 2001	110007 141
	12-131	95/125 13-	14=-322/208	1	9) All bearings	are assumed to be	SPF N	o.2 .				N.	FE-2001	1000/29
	12 10=1	00,120,10	1 - 322/200									Y	1 Pa	1 A
												0	Som	TENS
													ANA A	

December 27,2024

400 Sunrise Ave., Suite 270 Roseville, CA 95661 916.755.3571 / MiTek-US.com



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	LG5	Lay-In Gable	1	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. F Dec 27 124058/07/20:25 ID:Za2BhzU8LjZRPkiXKALmIWzDuoJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGtWrCDoiM4zJC?f



Scale = 1:76.4

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

Loading	(psf)	Spacing	2-0-0	cs	1	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.1	7 Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.1	3 Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WE	3 0.0	5 Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2	014 Ma	trix-S						Weight: 68 lb	FT = 20%
			WEBS	5-10-	222/117 1-202	37/138		12) Thi	e truce is	e doeio	uned in accordance	ce with the 2018
	2v4 SPE No 2		WEBS	6-18=	=-242/117, =-20=-2 =-242/170 7-16=-2	7/160		Inte	rnationa	al Resi	dential Code sect	tions R502 11 1 and
BOT CHORD	2x4 SFF No.2 2x4 SPF No.2			8-15=	=-229/160 9-14=-2	30/161		R80	12 10 2	and ref	ferenced standar	d ANSI/TPI 1
OTHERS	2x4 SPE No 2			10-12	2=-222/154	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		13) Gra	phical p	urlin re	epresentation doe	es not depict the size
BRACINC	214 011 110.2		NOTES					or t	he orien	tation	of the purlin along	a the top and/or
	Structural wood cho	athing directly applie	dor 1) Unb	alanced roof	live loads have bee	n considered fo	hr.	bott	om cho	rd.		,
TOP CHORD		auting unecity applie	this	lanceu 1001 lesian				LOAD	CASE(S) Sta	ndard	
	2-0-0 oc purlins, exc	Jepi J-0 max): 3-5	2) Wind	I: ASCE 7-16	S. Vult=115mph (3-s	econd aust)				,		
	Rigid ceiling directly	applied or 10-0-0 oc	_, Vas	=91mph: TC	DI = 6.0 psf BCDI =	6 0psf: h=35ft:						
DOT ONORD	bracing Except		Ke=	.00: Cat. II: I	Exp C: Enclosed: N	WFRS (envelo	pe)					
	6-0-0 oc bracing: 2-2	20.16-18.	exte	ior zone and	C-C Exterior(2E) C	-1-3 to 3-1-1,	1 - 7					
REACTIONS	(size) 2=14-4-9	11=14-4-9 12=14-4	-9 Exte	rior(2R) 3-1-1	1 to 10-1-15, Interio	r (1) 10-1-15 to)					
	13=14-4-9	9. 14=14-4-9. 15=14-	4-9. 14-8	-2 zone; cant	tilever left and right	exposed ; end						
	16=14-4-9	9, 18=14-4-9, 19=14-	4-9, verti	cal left and rig	ght exposed;C-C fo	r members and	1					
	20=14-4-9	9	force	s & MWFRS	for reactions show	n; Lumber						
	Max Horiz 2=-524 (L	.C 13)	DOL	=1.60 plate g	grip DOL=1.60							
	Max Uplift 2=-152 (L	.C 13), 11=-43 (LC 1	1), 3) Trus	s designed fo	or wind loads in the	plane of the tru	ISS					
	12=-138 ((LC 13), 13=-270 (LC	13), only	For studs e	xposed to wind (no	mal to the face	e),					
	14=-96 (L	.C 13), 15=-135 (LC '	13), see	Standard Ind	ustry Gable End De	tails as applica	ible,					
	16=-137 ((LC 13), 18=-144 (LC	13), or co	nsult qualifie	d building designer	as per ANSI/1	PI 1.					
	19=-29 (L	.C 11), 20=-153 (LC 1	11) 4) FIOV	otoo oro 2x4		thorwigg indig	y. tod					
	Max Grav 2=68 (LC	11), 11=190 (LC 13)	, 5) Alip 6) Cob	ales ale 284	(II) WIZO UNESS C		ileu.					
	12=207 (l	_C 22), 13=103 (LC 1	(1), (0) (0)	truce bac bac	eu al 2-0-0 00. on docignod for o 1	0.0 pcf bottom					~	
	14=194 (L	LC 22), 15=207 (LC 2	<u>22),</u> 7) 1115	tiuss has be	a nconcurrent with a	o.o psi bollom	ade				and	all
	10=204 (L	LC 22), 18=217 (LC 2	(2), 8) All b	earings are a	issumed to be SPF	No 2					B C OF I	MISS W
	19=252 (1	_C 24), 20=412 (LC 1	9) Beau	ing at joint(s)	2 19 20 18 cons	ders parallel to	,			4	9 22	W.OS
FORCES	(Ib) - Maximum Con	pression/Maximum	grair	value using	ANSI/TPI 1 angle t	o grain formula				B	SCOT	TM X
		000 0 4 005/047	Build	ina desianer	should verify capa	city of bearing				R		
TOP CHORD	1-2=-1/0, 2-3=-211/3	200/07 6 7- 221/2	se surfa	ice.	, ,	, ,			_	-0-	SEVI	
	7-8-126/132 8-0	57/15 0-10153/12	a 10) Prov	ide mechanio	cal connection (by o	thers) of truss	to		۲	80	1 11	
	10-11=-279/235	577-5, 5-10-155/12	bear	ing plate cap	able of withstanding	43 lb uplift at	joint				rott	Servi
BOT CHORD	2-20=-195/230 19-2	20=-275/330	11, ⁻	52 lb uplift a	t joint 2, 270 lb upli	t at joint 13, 29	lb		-	N.	NUM	BER /×A
Bot offorte	18-19=-270/325 16	-18=-271/326	uplif	at joint 19, 1	53 lb uplift at joint 2	0, 144 lb uplift	at			N7	PE-2001	018807 184
	15-16=-271/325. 14	-15=-271/327,	joint	18, 137 lb up	olift at joint 16, 135	b uplift at joint	15,			N	A 11-2001	STOOL SB
	13-14=-272/359, 12	-13=-176/218,	96 lb	uplift at joint	t 14 and 138 lb upli	t at joint 12.				Y	1980	IN B
	11-12=-176/218	,	11) Non	Standard bea	aring condition. Re	view required.					UNIONA	TENA
											AL TIA	

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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December 27,2024

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	LG4	Lay-In Gable	2	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Direct Lumber of Coloredo Desi		Burn 0.02 C Dec 1.2			0004 MT-1 Is doubles have F	

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. F Dec 27 124657/07/26:25 ID:uxhN?Nmqt3cp7NrGvD0_3IzDhGv-RfC?PsB70Hq3NSgPqnL8w3uITXbGt WrCDoi 94zJC?





Scale = 1:25.8

Plate Offsets (X, Y): [4:0-2-8,0-1-12]
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Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	8/TPI2014	CSI TC BC WB Matrix-S	0.07 0.05 0.04	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 39 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF 2x4 SPF 2x4 SPF 2x4 SPF Structural 6-0-0 oc 2-0-0 oc Rigid ceill bracing, 6-0-0 oc	No.2 No.2 No.2 No.2 I wood shea purlins, exa purlins (6-0 ing directly Except: pracing: 1-1	athing directly applied sept end verticals, an -0 max.): 1-4. applied or 10-0-0 oc 2.	2) d or id 3)	Wind: ASCE Vasd=91mph Ke=1.00; Cai exterior zone Interior (1) 5- zone; cantile and right exp MWFRS for ri grip DOL=1.6 Truss design only. For stu see Standarc or consult au	7-16; Vult=115mpl ; TCDL=6.0psf; BG t. II; Exp C; Enclose and C-C Exterior(4-1 to 6-10-0, Exterior(4-1 to 6-10-0, Exterior(4-1 to 6-10-0, Exterior(vosed; C-C for mem reactions shown; L 30 ed for wind loads in d Industry Gable Er alified building des	h (3-sec CDL=6. ed; MW 2E) 0-4 erior(2E (posed bers ar umber l n the pl d (norm nd Deta	cond gust) ppsf; h=35ft; FRS (envelog 1 to 5-4-1, 1 t	pe) 9-5 left ate ss), ble, Pl 1					
REACTIONS	(size) Max Horiz Max Uplift Max Grav	1=9-7-11, 9=9-7-11, 12=9-7-11 1=-129 (L 1=-30 (LC 10=-46 (L 12=-53 (L 1=101 (LC (LC 22), 9 27), 11=22	7=9-7-11, 8=9-7-11, 10=9-7-11, 11=9-7-1 C 13) 9), 8=-153 (LC 13), C 9), 11=-23 (LC 13) C 9) 2 1), 7=50 (LC 24), 8: =166 (LC 1), 10=175 5 (LC 11), 12=237 (L)	11, 4) 5) (6) 7) =192 8) 5 (LC 9) C 1)	 or consult qualified building designer as per ANSI/1PL1. 4) Provide adequate drainage to prevent water ponding. 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 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) All bearings are assumed to be SPF No.2. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 									
FORCES	(lb) - Max Tension	imum Com	pression/Maximum	- ,	1, 23 lb uplift at joint 12 an	at joint 11, 46 lb u d 153 lb uplift at jo	int 8.	oint 10, 53 lb	uplift					and a
TOP CHORD	1-2=-112/ 4-5=-132/	/118, 2-3=- /119, 5-6=-/	112/118, 3-4=-112/11 46/51, 6-7=-37/20	10 18, 11) Non Standar) This truss is	d bearing condition designed in accord Residential Code s	 Revie lance w 	ew required. ith the 2018	and				TE OF I	MISSO
BOT CHORD	1-12=-70/ 9-10=-33/	/69, 11-12= /40, 8-9=-3	-45/68, 10-11=-33/40 3/40, 7-8=-33/40), 12	R802.10.2 ar	nd referenced stan	dard AN	ISI/TPI 1.				A	ST SCOT	Г M.
WEBS	4-9=-123/ 5-8=-221/	/23, 3-10=- /160	162/67, 2-12=-220/79	9, 12	or the orientation of the purlin along the top and/or									
NOTES					LOAD CASE(S) Standard									
1) Unbalanced roof live loads have been considered for					NUMBER A									

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PE-2001018807

December 27,2024

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this design.

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	CG5	Diagonal Hip Girder	2	1	Job Reference (optional	R85979632 LEE'S SUMMIT, MISSOURI
	•					

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. F Dec 27 (1245/2/07/2) 25 ID:Bb5QVthVwWM4UIIMJaEo8IzDs?t-RfC?PsB70Hq3NSgPqnL8w3uITXbGF WrCDoi794zuc?



Special

4-11-11

Scale = 1:21.2

Plate Offsets (X, Y): [2:0-2-6,0-0-3]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018/	/TPI2014	CSI TC BC WB Matrix-P	0.45 0.27 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.07 0.00	(loc) 2-5 2-5 5	l/defl >999 >890 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 17 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Left 2x4 WW Stud Structural wood shea 4-11-11 oc purlins, e Rigid ceiling directly bracing. (size) 2=0-7-6, 5 Max Horiz 2=67 (LC S Max Uplift 2=-107 (LC Max Grav 2=315 (LC	2-5-1 athing directly applie except end verticals. applied or 10-0-0 oc = Mechanical 9) C 8), 5=-49 (LC 12) : 1), 5=206 (LC 1)	7) d or 8) : LO, 1)	Hanger(s) or provided suff down and 50 up at 2-2-13 2-2-13 on bo connection d In the LOAD of the truss a AD CASE(S) Dead + Roc Plate Increa Uniform Loc Vert: 1-4:	other connection of ficient to support co l b up at 2-2-13, a on top chord, and ttom chord. The d evice(s) is the resp CASE(S) section, are noted as front (Standard of Live (balanced): ase=1.15 ads (lb/tt) =-70, 2-5=-20	device(s oncentra ind 15 lb at 2-2 esign/se consibili loads ap F) or ba Lumber) shall be ted load(s) 1 o down and 5 13, and at election of su yo fo thers. oplied to the ck (B). Increase=1.	15 lb 1 lb ch face 15,					
FORCES	(lb) - Maximum Comı Tension	pression/Maximum											
TOP CHORD BOT CHORD	1-2=-6/0, 2-4=-89/56 2-5=-31/34	, 4-5=-165/205											
NOTES													
1) Wind: ASt Vasd=91r Ke=1.00; exterior zo and right o C for men	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BCI Cat. II; Exp C; Enclosee one and C-C Corner (3) exposed ; end vertical le nbers and forces & MW	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop zone; cantilever left eft and right exposed FRS for reactions	e) t d;C-									SE OF M	MISS

shown; Lumber DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) Bearings are assumed to be: Joint 2 SPF No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 5 and 107 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 27,2024



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J19	Jack-Open	2	1	Job Reference (optional	R85979633 LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Don						

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. FI Dec 27 124657 07/269 25 ID:n0PHtrfddb_VdH0neRg5W7zDs?w-RfC?PsB70Hq3NSgPqnL8w3uITXbGtWrCDoi7e4zJC?f





1-6-3

Scale = 1:15.6		
Plate Offsets (X, Y):	[2:0-1-8,0-0-5]	

Loading	(psf)	Spacing	2-0-0	CSI	0.05	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (root)	25.0	Plate Grip DOL	1.15		0.05	Vert(LL)	0.00	2-5	>999	190	WI 20	169/123
RCU	10.0	Lumber DOL Rop Stross Incr	1.15 VES		0.02	Ven(CT)	0.00	2-5	>999	180 n/o		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P	0.00	11012(01)	0.00	3	11/d	n/a	Weight: 6 lb	FT = 20%
	· · ·			Standard								
TOP CHORD	2x4 SPE No 2			Otandara								
BOT CHORD	2x4 SPF No 2											
SLIDER	Left 2x4 WW Stud -	- 1-5-5										
BRACING												
TOP CHORD	Structural wood she	athing directly applie	ed or									
	1-6-3 oc purlins.	5										
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 or	C									
REACTIONS	(size) 2=0-5-8,	3= Mechanical, 5=										
	Mechanic	cal										
	Max Horiz 2=35 (LC	12)										
	Max Uplift 2=-56 (LC	C 8), 3=-28 (LC 12)										
	Max Grav 2=147 (L (LC 3)	C 1), 3=35 (LC 1), 5=	=30									
FORCES	(lb) - Maximum Con Tension	npression/Maximum										
TOP CHORD	1-2=-5/0, 2-3=-41/2	4, 3-4=0/0										
BOT CHORD	2-5=0/0											
NOTES												
1) Wind: AS	CE 7-16; Vult=115mph	n (3-second gust)										
Vasd=91r	mph; TCDL=6.0psf; BC	DL=6.0psf; h=35ft;										
Ke=1.00;	Cat. II; Exp C; Enclose	ed; MWFRS (envelop	pe)								000	ADD
exterior zo	one and C-C Exterior(2	2E) zone; cantilever l	left								8. OF I	MICON
and right	exposed ; end vertical	VERS for reactions	d;C-							- 1	9 TE	
shown: Lu	umber DOI –1 60 plate	arin DOI = 1.60								6	N	N S
3110WH, EC		ghp DOL-1.00								H	SCOT	TM. YOY
2) This truss	has been designed fo	r a 10.0 psf bottom								K.	/ SEV	IER \ X
chord live	load nonconcurrent w	ith any other live load	ds.						•	- Mar		0
3) Bearings	are assumed to be: , J	oint 2 SPF No.2 .								21	↓. 17 × .	Xaulat
4) Refer to g	girder(s) for truss to tru	iss connections.							•		COL MIN	SAMMA/
5) Provide m	nechanical connection	(by others) of truss to	0							47	DE 2001	018807 198
la a subserve subserve	late concella effective	a all a FO II life at 1										

5 bearing plate capable of withstanding 56 lb uplift at joint 2 and 28 lb uplift at joint 3. 6)

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Clayton Builder-P24098	AS NOTED FOR PLAN REVIEW -Lot 209- 2750 SW 11th Terr DEVELOPMENT SERVICES
241089-A	J20 Jack-Open 2 1 Job Reference (optio					R85979634 LEE'S SUMMIT, MISSOURI
Direct Lumber of Colorado, Don	(or CO 80221	2024 MiTok Industrios, Inc. E				

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. FI Dec 27(124657/07/269:25 ID:n0PHtrfddb_VdH0neRg5W7zDs?w-RfC?PsB70Hq3NSgPqnL8w3uITXbGfWrCDoi794zJC?f





1-6-3

Scale = 1:15.6	
Plate Offsets (X, Y):	[2:0-1-8,0-0-5]

Loading TCLL (roof) TCDL BCLL BCDI		(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.05 0.02 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 2-5 2-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 169/123 FT = 20%
DODL		10.0	0000		Manx					-		Wolght. 0 lb	11-2070
LUMBER TOP CHORD BOT CHORD SLIDER BRACING TOP CHORD BOT CHORD	2x4 SPF N 2x4 SPF N Left 2x4 W Structural 1-6-3 oc p Rigid ceilir	lo.2 lo.2 /W Stud wood shea urlins. ng directly	1-5-5 athing directly applie applied or 10-0-0 oc	LOAD CASE(S)	Standard								
REACTIONS	bracing. (size) Max Horiz Max Uplift Max Grav	2=0-5-8, 3 Mechanic 2=36 (LC 2=-59 (LC 2=151 (LC (LC 3)	8= Mechanical, 5= al 12) 8), 3=-28 (LC 12) C 1), 3=33 (LC 1), 5=	-30									
F ORCES	(lb) - Maxii Tension 1-2=-4/0, 2	mum Com 2-3=-40/23	pression/Maximum										
BOT CHORD	2-5=0/0												
VOTES Vasd=91r Ke=1.00; exterior zr and right C for men shown; Lu	CE 7-16; Vult mph; TCDL=6 Cat. II; Exp C one and C-C exposed ; en nbers and for umber DOL=7	t=115mph 6.0psf; BC C; Enclose Exterior(2 d vertical I rces & MW 1.60 plate	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever I eft and right expose (FRS for reactions grip DOL=1.60	ie) eft d;C-								STATE OF I	MISSOLATIA
 This truss chord live 	has been de load noncon	signed for current wi	a 10.0 psf bottom th any other live load	ds.						1			
Rearings	ara assumad	to be: la	vint 2 SPE No 2								W V	I.TT	And the streng

- 3) Bearings are assumed to be: , Joint 2 SPF No.2
- 4) Refer to girder(s) for truss to truss connections.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 2 and 28 lb uplift at joint 3.

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







21. The design does not take into account any dynamic