

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Re: 230472-2-F Lot 359 Park Ridge

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid West Lumber & Supply.

Pages or sheets covered by this seal: I63886529 thru I63886554

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

Missouri COA: Engineering 001193



February 27,2024

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

lob	Truss	Truss Type	Qty	Ply	Lot 359 Park Ridge		100000500
30472-2-F	F101	GABLE	1	1	Joh Deference (entione	Ŋ	16388652
Vid West Lumber,	Urich, MO - 64788,			8.530 s Au	Job Reference (optiona g 2 2023 MiTek Industrie	n) s, Inc. Tue Feb 27 11:16:	21 2024 Page 1
			ID:J9IWtEYxuTe	U7yVoRXqeJo	y4SfV-HwbqbCk4WDYo	58dqC6MOvKTqV1CmPQI	
0- <u>1</u> -8							0-1-8 H
							Scale = 1:52
		3x4 FF	>=				
1 2 3	4 5 6 7	8 9 10 11 12	13 14 15	16 17	18 19 20	21 22 23 2	4 25 26
							54
52 51 50	49 48 47 46	45 44 43 42	41 40 39 38	337 36	25 24 22	32 31 30 2	
52 51 50 3x4 =	49 48 47 46	45 44 43 42	41 40 39 38 3x4 FP		35 34 33	32 31 30 2	9 28 27 3x4 =
	<u>-0-0 5-4-0 6-8-0 8-0-0 5-4-0 1-4-0 </u>	<u>-4-0 10-8-0 12-0-0 13-4-0 14-8-0</u> <u>-4-0 1-4-0 1-4-0 1-4-0 1-4-0</u>	<u>) 16-0-0 17-4-0 18-8-0 1-4-0 </u>		3-0 23-3-0 24-0-0 25-4- -0 2-0-0 0-9-0 1-4-0	0 <u>26-8-0</u> <u>28-0-0</u> <u>29-4-0</u> 1-4-0 <u>1-4-0</u> <u>1-4-0</u>	<u>30-8-031-4-0</u> 1-4-0 0-8-0
LOADING (psf) FCLL 40.0 FCDL 10.0		00 TC 0.10	DEFL. Vert(LL)	in (loc) n/a -	l/defl L/d n/a 999		RIP 4/190
CDL 10.0 SCLL 0.0		00 BC 0.01 ES WB 0.02	Vert(CT) Horz(CT)	n/a - 0.00 27	n/a 999 n/a n/a		
BCDL 5.0	Code IRC2018/TPI201	4 Matrix-R				Weight: 129 lb	FT = 20%F, 11%

BCDL 5.0		Matrix-R	1012(01) 0.0		Weight: 129 lb FT	= 20%F, 11%E
LUMBER- TOP CHORD	2x4 SP No.1(flat)		BRACING- TOP CHORD	Structural wood sheathing dir	ectly applied or 6-0-0 oc purli	ns,
BOT CHORD	2x4 SP No.1(flat)			except end verticals.	, , , , , , , , , , , , , , , , , , , ,	,
WEBS	2x4 SP No.1(flat)		BOT CHORD	Rigid ceiling directly applied of	or 10-0-0 oc bracing.	
OTHERS	2x4 SP No.1(flat)					

REACTIONS. All bearings 31-4-0.

(Ib) - Max Grav All reactions 250 lb or less at joint(s) 52, 27, 51, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

4) Gable studs spaced at 1-4-0 oc.

- 5) 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.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



 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 besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property 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 **ANS/TPH1 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)



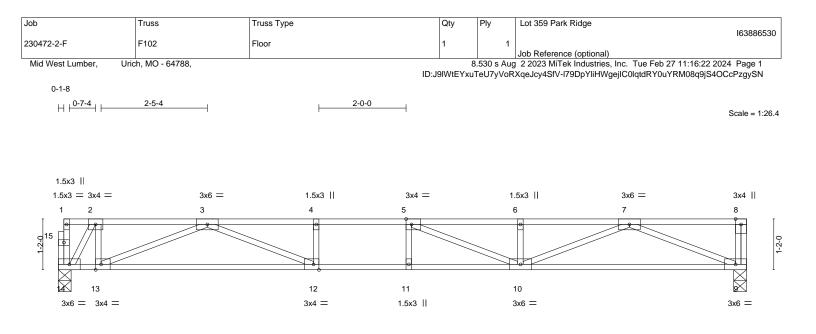


Plate Offsets (X,Y)	[5:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1	-8,Edge]	<u>15-9-8</u> 15-9-8			I
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.53 BC 0.78 WB 0.25 Matrix-S	Vert(LL) -0.2	in (loc) I/defl L/d 3 10-11 >819 600 0 10-11 >630 360 4 9 n/a n/a	PLATES MT20 Weight: 78 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SI	P No.1(flat) P No.1(flat) P No.1(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,) oc purlins,

REACTIONS. (size) 14=0-3-8, 9=0-3-8

Max Grav 14=679(LC 1), 9=684(LC 1)

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

TOP CHORD 2-3=-529/0, 3-4=-2489/0, 4-5=-2489/0, 5-6=-2303/0, 6-7=-2303/0

BOT CHORD 13-14=0/494, 12-13=0/1725, 11-12=0/2489, 10-11=0/2489, 9-10=0/1433 WEBS 3-12=0/908, 3-13=-1296/0, 2-13=0/519, 2-14=-871/0, 7-9=-1547/0, 7-10=0/942,

6-10=-252/0, 5-10=-498/86

NOTES-

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

2) 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.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

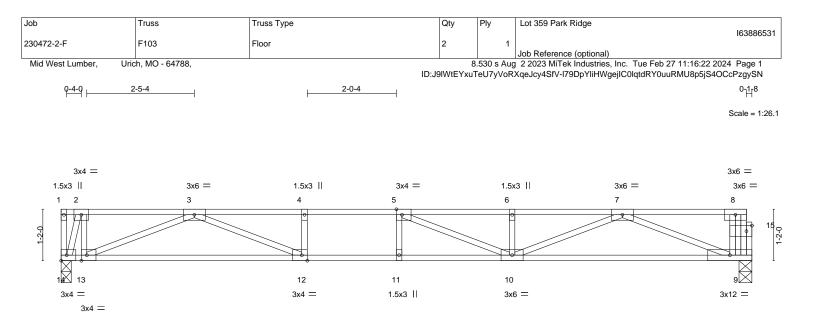
4) CAUTION, Do not erect truss backwards.



 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 beigh valid for use only with with with sets outputs into design is based only door parameters shown, and is for an individual dualing 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/TPI 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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			15-8-0 15-8-0			I
Plate Offsets (X,Y)	[5:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1	-8,Edge], [15:0-1-8,0-1-8]				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-1-7-3Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.57 BC 0.81 WB 0.26 Matrix-S	Vert(LL) -0.2	in (loc) l/defl L/d 4 10-11 >769 600 1 10-11 >591 360 4 9 n/a n/a	PLATES MT20 Weight: 79 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 S	P No.1(flat) P No.1(flat) P No.1(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathir except end verticals. Rigid ceiling directly app	ng directly applied or 6-0-0 lied or 10-0-0 oc bracing.	•

REACTIONS. (size) 14=0-2-12, 9=0-3-8

Max Grav 14=676(LC 1), 9=671(LC 1)

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

TOP CHORD 2-3=-325/0, 3-4=-2406/0, 4-5=-2406/0, 5-6=-2295/0, 6-7=-2295/0 BOT CHORD

13-14=0/292, 12-13=0/1570, 11-12=0/2406, 10-11=0/2406, 9-10=0/1468

4-12=-261/0, 3-12=0/962, 3-13=-1349/0, 2-13=0/529, 5-10=-440/139, 6-10=-256/0,

7-10=0/896, 7-9=-1568/0, 2-14=-827/0

NOTES-

WEBS

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

2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.

3) 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.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

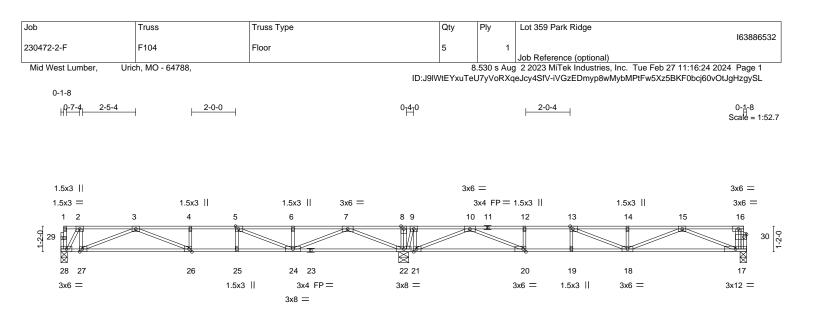
Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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	15-8-0		•	15-8-0		
Plate Offsets (X,Y)	[5:0-1-8,Edge], [13:0-1-8,Edge], [20:0-1-	8,Edge], [21:0-1-8,Edge], [26	6:0-1-8,Edge], [27:0	0-1-8,Edge], [30:0-1-8,0-1-8]		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.76 BC 0.90 WB 0.29 Matrix-S	Vert(CT) -0.3	in (loc) I/defl L/d 26 18-19 >723 600 34 18-19 >550 360 04 17 n/a n/a	PLATES MT20 Weight: 156 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SP	P No.1(flat) P No.1(flat) P No.1(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di except end verticals. Rigid ceiling directly applied		oc purlins,

31-4-0

REACTIONS. (size) 28=0-3-8, 22=0-5-8, 17=0-3-8 Max Grav 28=599(LC 3), 22=1578(LC 1), 17=616(LC 4)

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

 TOP CHORD
 2-3=-476/0, 3-4=-1969/0, 4-5=-1969/0, 5-6=-1480/0, 6-7=-1480/0, 7-8=0/1582, 8-9=0/1579, 9-10=0/1274, 10-12=-1940/1, 12-13=-1940/1, 13-14=-2035/0, 14-15=-2035/0

 BOT CHORD
 27-28=0/445, 26-27=0/1477, 25-26=0/1969, 24-25=0/1969, 22-24=-342/437,

WEBS 21-22=-1304/0, 20-21=-506/916, 19-20=-1/1940, 18-19=-1/1940, 17-18=0/1327 12-20=-351/0, 3-26=0/534, 3-27=-1084/0, 2-27=0/464, 2-28=-785/0, 5-24=-775/0, 7-24=0/1203, 7-22=-1751/0, 10-20=0/1297, 10-21=-1634/0, 9-21=0/549, 9-22=-812/0, 13-18=-1/464, 14-18=-285/0, 15-18=0/767, 15-17=-1417/0

15-8-0

NOTES-

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

2) All plates are 3x4 MT20 unless otherwise indicated.

 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.

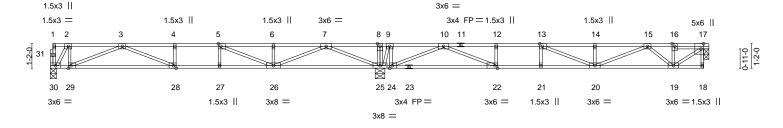
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type	Qty	Ply	Lot 359 Park Ridge	100000500
230472-2-F	F105	Floor	3	1		163886533
					Job Reference (optional)	
Mid West Lumber, Uric	h, MO - 64788,		8	.530 s Aug	2 2023 MiTek Industries, Inc. Tue Feb 27 11:	:16:25 2024 Page 1
		ID:J9IWt	EYxuTeU7	yVoRXqe	Jcy4SfV-AiqLRZnaaR2DalxbRyRK3AeMNeNDI	LANA81dsCkzgySK
0-1-8						
0-7-4 2-5-4	2-0-0	0 ₁ 410		⊢	<u>2-0-0</u>	103-0 Scale = 1:54.7
						Scale = 1.54.7



	7-11-12			23-3-0		
	11-12 6-11-12	15-8-0	21-3-0	22-3-0	31-0-8	<u>31-</u> 3-8 0-3-0
	11-12 '1-0-0'1-0-0'	7-8-4	5-7-0	1-0-0 1-0-0	7-9-8	0-3-0
Plate Offsets (X,Y)	[5:0-1-8,Edge], [13:0-1-8,Edge], [17:0-	3-0,Edge], [22:0-1-8,Edge], [2	24:0-1-8,Edge], [28:0-1	-8,Edge], [29:0-1-8,Edge]		
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in	(loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.74	Vert(LL) -0.24	20-21 >766 600	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.87	Vert(CT) -0.32	20-21 >576 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.29	Horz(CT) 0.03			
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		20 1.44 1.44	Weight: 156 lb	FT = 20%F, 11%E
LUMBER-			BRACING-			
TOP CHORD 2x4 SF	PNo.1(flat)		TOP CHORD	Structural wood sheathing di	rectly applied or 6-0-0	oc purlins.
	PNo.1(flat)			except end verticals.		
	P No.1(flat)		BOT CHORD	Rigid ceiling directly applied	or 6-0-0 oc bracing	
WEB0 224 01	No. I (hat)		Berenerte	rugia cening anceary applied	of 0 0 0 0 0 blacing.	
REACTIONS. (size	-) 20 0 2 0 47 0 2 0 25 0 5 0					
REACTIONS. (size	e) 30=0-3-8, 17=0-3-0, 25=0-5-8					

Max Grav 30=599(LC 3), 17=617(LC 4), 25=1571(LC 1)

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

 TOP CHORD
 2-3=-477/0, 3-4=-1972/0, 4-5=-1972/0, 5-6=-1484/0, 6-7=-1484/0, 7-8=0/1572, 8-9=0/1569, 9-10=0/1265, 10-12=-1928/7, 12-13=-1928/7, 13-14=-2004/0, 14-15=-2004/0, 15-16=-738/0, 16-17=-740/0

 BOT CHORD
 29-30=0/445, 28-29=0/1478, 27-28=0/1972, 26-27=0/1972, 25-26=-327/442, 24-25=-1295/0, 22-24=-509/924, 21-22=-7/1928, 20-21=-7/1928, 19-20=0/1273

 WEBS
 17-19=0/906, 12-22=-347/0, 3-28=0/535, 3-29=-1085/0, 2-29=0/464, 2-30=-785/0, 5-26=-769/0, 7-26=0/1202, 7-25=-1750/0, 10-22=0/1277, 10-24=-1620/0, 9-24=0/547,

9-25=-811/0, 13-20=-16/453, 14-20=-300/0, 15-20=0/793, 15-19=-701/0

NOTES-

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

2) All plates are 3x4 MT20 unless otherwise indicated.

3) 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.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

6) CAUTION, Do not erect truss backwards.



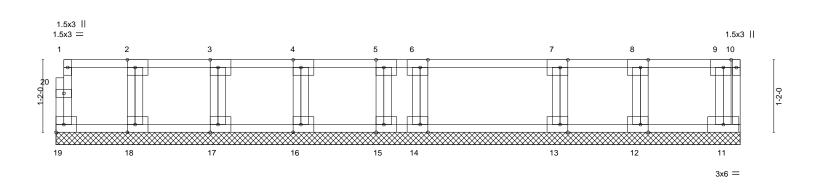


Job	Truss	Truss Type	Qty	Ply	Lot 359 Park Ridge
220472.2.5	F106		4	1	163886534
230472-2-F	F106	GABLE	1		Job Reference (optional)
Mid West Lumber, Uric	h, MO - 64788,		8		2 2023 MiTek Industries, Inc. Tue Feb 27 11:16:26 2024 Page 1

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8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Feb 27 11:16:26 2024 Page 1 ID:J9IWtEYxuTeU7yVoRXqeJcy4SfV-euOjfvoCLIA4CvVn_gyZcOAh02vt4hyJNhMQIAzgySJ

Scale = 1:18.5



	1-4-0	1	2-8-0	4-0-0	5-4-0	5-11-12	7-11-12	9-4-0	10-8-0	11-0-0
	1-4-0	1	1-4-0	1-4-0	1-4-0	0-7-12	2-0-0	1-4-4	1-4-0	0-4-0
Plate C	Offsets (X,Y)	[2:0-1	1-8,Edge], [3:0-1-8,E	dge], [4:0-1-8,Edg	e], [5:0-1-8,Edge], [6:	0-1-8,Edge],	[7:0-1-8,Edge], [8:0-1-8,Edge]	, [9:0-1-8,Edge], [12:0	0-1-8,Edge], [13:0	-1-8
		,Edge	e], [14:0-1-8,Edge], [15:0-1-8,Edge], [16	6:0-1-8,Edge], [17:0-1	I-8,Edge], [18	3:0-1-8,Edge]			

LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0		SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	1-7-3 1.00 1.00 YES Pl2014	CSI. TC BC WB Matri	0.11 0.01 0.01 x-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 11	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 58 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD WEBS	2x4 SP 2x4 SP	No.1 (flat) No.1 (flat) No.1 (flat) No.1 (flat)				BRACING- TOP CHOR BOT CHOR	RD	except	end verti	cals.	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,

REACTIONS. All bearings 11-0-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 19, 18, 17, 16, 15, 14, 13, 12, 11

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

NOTES-

1) All plates are 3x4 MT20 unless otherwise indicated.

2) Gable requires continuous bottom chord bearing.

3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

4) Gable studs spaced at 1-4-0 oc.

5) 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.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

7) CAUTION, Do not erect truss backwards.





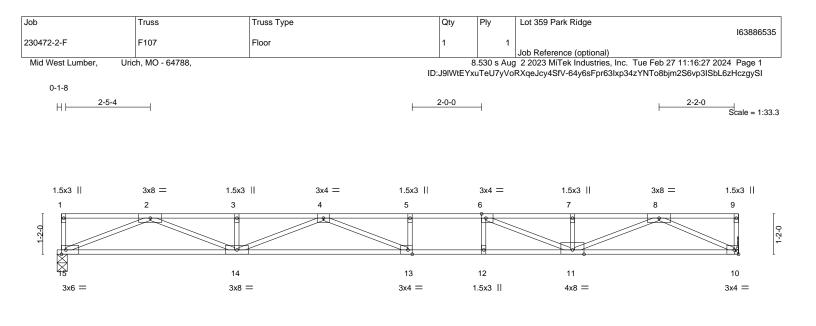


Plate Offsets (X,Y)	10-3-0 10-3-0 [6:0-1-8,Edge], [13:0-1-8,Edge], [15:0-1-	8,Edge]	<u>+ 11-3-0 + 12-3-0</u> <u>- 1-0-0 + 1-0-0</u>		19-8-0 7-5-0	
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.48 BC 0.60 WB 0.32 Matrix-S	Vert(LL) -0.37	n (loc) l/defl L/d 7 13-14 >622 600 8 13-14 >443 360 8 10 n/a n/a	PLATES MT20 Weight: 93 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SF	 2400F 2.0E(flat) 2400F 2.0E(flat) No.1(flat) 		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di except end verticals. Rigid ceiling directly applied		oc purlins,

REACTIONS. (size) 15=0-3-8, 10=Mechanical

Max Grav 15=854(LC 1), 10=854(LC 1)

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

TOP CHORD 2-3=-3091/0, 3-4=-3091/0, 4-5=-3881/0, 5-6=-3881/0, 6-7=-2946/0, 7-8=-2946/0

BOT CHORD 14-15=0/1820, 13-14=0/3791, 12-13=0/3881, 11-12=0/3881, 10-11=0/1639

WEBS 2-15=-1972/0, 2-14=0/1376, 4-14=-759/0, 4-13=-226/520, 6-11=-1181/0, 8-11=0/1415,

NOTES-

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

2) Refer to girder(s) for truss to truss connections.

8-10=-1809/0

3) 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.

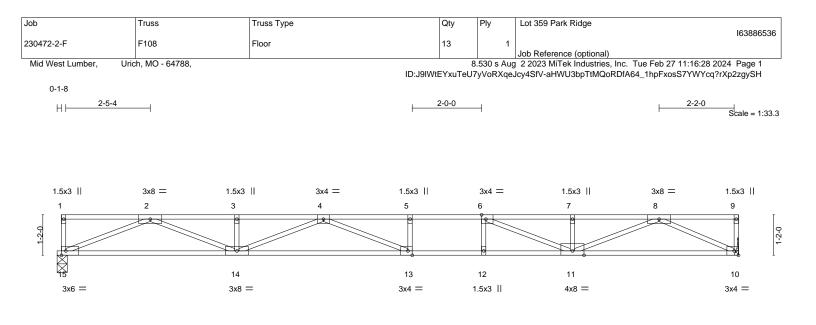
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.







	<u> </u>		<u>11-3-0</u> <u>12-3-0</u> <u>1-0-0</u> <u>1-0-0</u>		<u>19-8-0</u> 7-5-0	
Plate Offsets (X,Y)	[6:0-1-8,Edge], [13:0-1-8,Edge], [15:0-1	-8,Edge]				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-1-7-3Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.48 BC 0.60 WB 0.32 Matrix-S	Vert(LL) -0.37	n (loc) l/defl L/d 7 13-14 >622 600 8 13-14 >443 360 9 10 n/a n/a	PLATES MT20 Weight: 93 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4	4 SP 2400F 2.0E(flat) 4 SP 2400F 2.0E(flat) 4 SP No.1(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing except end verticals. Rigid ceiling directly applie	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,) oc purlins,

REACTIONS. (size) 15=0-3-8, 10=Mechanical

Max Grav 15=854(LC 1), 10=854(LC 1)

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

TOP CHORD 2-3=-3091/0, 3-4=-3091/0, 4-5=-3881/0, 5-6=-3881/0, 6-7=-2946/0, 7-8=-2946/0

BOT CHORD 14-15=0/1820, 13-14=0/3791, 12-13=0/3881, 11-12=0/3881, 10-11=0/1639

WEBS 2-15=-1972/0, 2-14=0/1376, 4-14=-759/0, 4-13=-226/520, 6-11=-1181/0, 8-11=0/1415,

8-10=-1809/0

NOTES-

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

2) Refer to girder(s) for truss to truss connections.

3) 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.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type	Qty	Ply	Lot 359 Park Ridge]
230472-2-F	F109	Floor	6	1			163886537
Mid West Lumber,	Urich, MO - 64788,		8	.530 s Au	Job Reference (option g 2 2023 MiTek Indust	nal) ries, Inc. Tue Feb 27 11	:16:29 2024 Page 1
0-1-8			ID:J9IWtEYxuTe	U7yVoRX	qeJcy4SfV-2T4sHxq5e	gZf3MEMgoVGD0o4wG	iljH?Ql3fb4LVzgySG
H <u>2-5-4</u>	1-10-8		F	2-0-0		L	2-2-0
			'		·		Scale = 1:40.1
						5x3	
1.5x3 1	1.5x3 2 3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6 = 1.5x3 7	11		8x4 FP == 9 10 11	1.5x3 12
							e 1
1-2-0		24 26					1-2-0
23	22 21	20 19 18 17	16		15	14	13
20	3x4 FP =	1.5x3	3x6 =			x6 =	10
		1.5x3					
	<u>9-9-12</u> 9-9-12			5-3-0 16-3 -0-0 1-0		23-8-0 7-5-0	
Plate Offsets (X,Y)		<u>0-2-4</u> <u>0-2-4</u> 16:0-1-8,Edge], [17:0-1-8,Edge], [20:0-			-	7-5-0	
							GRIP
LOADING (psf) TCLL 40.0	SPACING- 1-7-3 Plate Grip DOL 1.00	D TC 0.58	Vert(LL) -0.20	(loc) 14-15	l/defl L/d >797 600	PLATES MT20	244/190
TCDL 10.0 BCLL 0.0	Lumber DOL 1.00 Rep Stress Incr YES	S WB 0.22	Vert(CT) -0.27 Horz(CT) 0.04	14-15 13	>607 360 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S				Weight: 114 lb	FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF	PNo.1(flat)		BRACING- TOP CHORD	Structur	al wood sheathing di	rectly applied or 6-0-0 o	oc purlins.
BOT CHORD 2x4 SF	P No.1(flat) P No.1(flat)		BOT CHORD	except e	end verticals.	or 10-0-0 oc bracing, I	
	e) 23=0-3-8, 13=Mechanical, 2	04_0.2.9	Derenend		c bracing: 19-20,17-18		
	arav 23=425(LC 3), 13=593(LC 5						
		0 (lb) or less except when shown.					
	·927/0, 3-4=-927/0, 4-27=-927/0, ·1786/0, 7-8=-1786/0, 8-9=-1824	5-27=0/494, 5-28=0/494, 6-28=-750/0 /0, 9-11=-1824/0),				
		750, 15-16=0/1786, 14-15=0/1786, 13- 68, 4-20=-287/0, 6-16=0/1149, 6-17=-{					
17-28	8=0/868, 8-14=-254/214, 9-14=-2	265/0, 11-14=0/803, 11-13=-1195/0, 5-	-24=-316/82				
NOTES-	a laada baya baan aanaidarad fe	r this design					
2) All plates are 3x4 M	e loads have been considered for T20 unless otherwise indicated.	-					
	erance at joint $5 = 7\%$, joint $5 = 7\%$	%					
 Bearing at joint(s) 2- capacity of bearing s 		e using ANSI/TPI 1 angle to grain form	nula. Building desig	ner shoul	ld verify		
 6) This truss is designed referenced standard 		nternational Residential Code sections	8 R502.11.1 and R80	02.10.2 a	nd		
Recommend 2x6 str	ongbacks, on edge, spaced at 1	0-0-0 oc and fastened to each truss w ds or restrained by other means.	vith 3-10d (0.131" X	3") nails.		CONT.	acon
8) CAUTION, Do not e	rect truss backwards.	·	in a first-lister A	1	(-	TEOF	MISSO
 Bottom chord under damaged or remove 		19 is required to be field removed at ti	Ime of installation. N	lo plates	are to be	SCO'	TT M.
							VIER
						8 1 +A	. J. J.
					4		BEREY
						PE-200	1018807
						CSSION.	AL ENGL
						ALL ALL	AL STATES

February 27,2024



Job	Truss	Truss Type	Qty	Ply	Lot 359 Park Rid	dge	
230472-2-F	F110	Floor	3				163886538
Mid West Lumber,	Urich, MO - 64788,					dustries, Inc. Tue Feb 27 1	
0-1-8			ID:J9IWIEYXUI	eU/yvorxo	qeJcy4StV-wteEUH	lrjP_hWgWpYDV1VmELHz	1800R1VIJKduxzgySF
H <u>2-5-4</u>			-0	2-0-0	<u> </u>	ŀ	2-2-0 Scale = 1:39.2
							Scale = 1.39.2
	3x4 =	3x12 =	3x6 =		3x4 =	3x4 FP = 3x6	6 =
1 T G	2 3	4 5 27 28	6 •	7	8	9 10 11	1 12
1-2-0		24 28		Ĭ			1-2-0
				l.			
23	22 21	20 19 18	17	16	15	14	13
3x4 =	3x4 FP = 3x4 =	3x4 =	4x4 = 3x4	6 =		3x8 =	3x4 =
	3,4 —						
L	9-9-12	10-2-4 10 _Ր Q-Q	14-3-0	15-3-0 16		23-8-0	
	9-9-12	0 ⁻¹ 2 ¹ 4 ¹ 0-2-4	4-0-12	1-0-0 1		7-5-0	
		16:0-1-8,Edge], [17:0-1-8,Edge]					
LOADING (psf) TCLL 40.0	SPACING- 1-7-3 Plate Grip DOL 1.00		DEFL. Vert(LL) -0	in (loc) .17 14-15	l/defl L/d >980 600	PLATES MT20	GRIP 244/190
TCDL 10.0 BCLL 0.0	Lumber DOL 1.00 Rep Stress Incr NO			.25 14-15 .03 13	>650 360 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S				Weight: 114 lt	FT = 20%F, 11%E
LUMBER-			BRACING-	Christe		a directly explicit ex C O (
BOT CHORD 2x4 SP	2400F 2.0E(flat) 2400F 2.0E(flat)		TOP CHORD	except	t end verticals.	ng directly applied or 6-0-0	
WEBS 2x4 SP	No.1(flat)		BOT CHORD		ceiling directly app oc bracing: 19-20,	lied or 10-0-0 oc bracing, 17-18.	Except:
	e) 23=0-3-8, 13=Mechanical, 2 rav 23=423(LC 3), 13=653(LC 3						
		0 (lb) or less except when show	0				
TOP CHORD 2-3=-	916/0, 3-4=-916/0, 4-27=-916/0	5-27=0/510, 5-28=0/510, 6-28=					
BOT CHORD 21-23		891, 15-16=0/2126, 14-15=0/212					
		69, 4-20=-287/0, 6-16=0/1362, 6 -301/0, 11-14=0/971, 11-13=-13					
NOTES-							
	e loads have been considered fo MT20 unless otherwise indicated						
3) The Fabrication Tole	erance at joint 5 = 0%, joint 5 = 0						
5) Bearing at joint(s) 24		e using ANSI/TPI 1 angle to grai	in formula. Building de	signer sho	uld verify		
	ed in accordance with the 2018 I	nternational Residential Code se	ections R502.11.1 and	R802.10.2	and		
referenced standard 7) Load case(s) 1, 2, 3,		4 has/have been modified. Build	ding designer must rev	ew loads to	o verify that		1000
	he intended use of this truss.	0-0-0 oc and fastened to each t	russ with 3-10d (0 131	" X 3") nails	5	55 OI	F MISS
	ttached to walls at their outer en	ds or restrained by other means				A.N.V	Ness
10) Bottom chord unde	r the bearing from joint 18 to join	nt 19 is required to be field remo	ved at time of installati	on. No plat	es are to be		OTT M.
damaged or remov	ea.					10 +	
LOAD CASE(S) 1) Dead + Floor Live (b	alanced): Lumber Increase=1.0	0, Plate Increase=1.00				algol	
Uniform Loads (plf) Vert: 19-23=	=-8, 13-18=-8, 1-6=-80, 6-9=-102	2, 9-12=-80				PE-20	01018807
	ase=1.00, Plate Increase=1.00					A Ser	NOT
	=-8, 13-18=-8, 1-6=-80, 6-9=-102	2, 9-12=-80				A NOV	VAL E
						Febru	ary 27,2024
Continued on page 2						1	
Design valid for use or	nly with MiTek® connectors. This design	IN THIS AND INCLUDED MITEK REFERI	nd is for an individual buildin	g component,	not		liTek °
a truss system. Before	e use, the building designer must verify th ng indicated is to prevent buckling of ind	e applicability of design parameters and	properly incorporate this des	ign into the ov	rerall		



Job	Truss	Truss Type	Qty	Ply	Lot 359 Park Ridge	
230472-2-F	F110	Floor	3	1	163886	538
					Job Reference (optional)	
Mid West Lumber,	Urich, MO - 64788,			3.530 s Aud	g 2 2023 MiTek Industries, Inc. Tue Feb 27 11:16:30 2024 Page 2	2

ID:J9IWtEYxuTeU7yVoRXqeJcy4SfV-WfeEUHrjP_hWgWpYDV1VmELHzf800R1vIJKduxzgySF

Mid West Lumber,

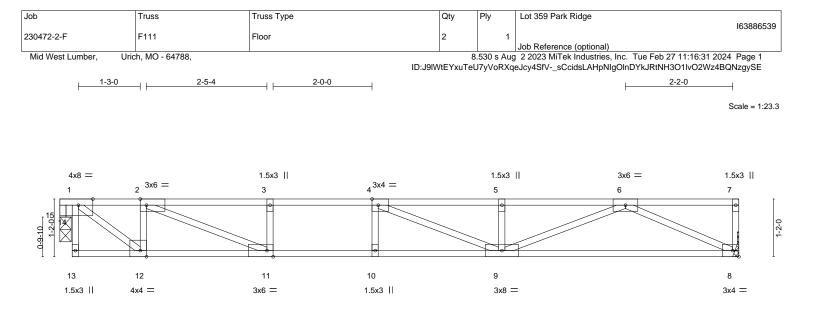
LOAD CASE(S)

- 3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 19-23=-8, 13-18=-8, 1-5=-80, 5-6=-16, 6-9=-38, 9-12=-16 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf) Vert: 19-23=-8, 13-18=-8, 1-5=-16, 5-6=-80, 6-9=-102, 9-12=-80 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf) Vert: 19-23=-8, 13-18=-8, 1-5=-80, 5-6=-16, 6-9=-38, 9-12=-16
- 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 19-23=-8, 13-18=-8, 1-5=-16, 5-6=-80, 6-9=-102, 9-12=-80
- 7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 19-23=-8, 13-18=-8, 1-4=-80, 4-28=-16, 6-28=-80, 6-9=-102, 9-12=-80 8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 19-23=-8, 13-18=-8, 1-3=-16, 3-6=-80, 6-9=-102, 9-12=-80
- 9) 3rd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 19-23=-8, 13-18=-8, 1-6=-80, 6-8=-102, 8-9=-38, 9-12=-16 10) 4th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 19-23=-8, 13-18=-8, 1-27=-80, 6-27=-16, 6-7=-38, 7-9=-102, 9-12=-80 11) 5th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 19-23=-8, 13-18=-8, 1-4=-80, 4-28=-16, 6-28=-80, 6-9=-102, 9-12=-80 12) 6th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf) Vert: 19-23=-8, 13-18=-8, 1-3=-16, 3-6=-80, 6-9=-102, 9-12=-80 13) 7th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
- Vert: 19-23=-8, 13-18=-8, 1-6=-80, 6-8=-102, 8-9=-38, 9-12=-16 14) 8th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 19-23=-8, 13-18=-8, 1-27=-80, 6-27=-16, 6-7=-38, 7-9=-102, 9-12=-80





	4-3-12 4-3-12	5-3-12 6-3-12 1-0-0 1-0-0		13-8-12 7-5-0	
Plate Offsets (X,Y)	[1:0-3-8,Edge], [2:0-1-8,Edge], [4:0-1-8	,Edge], [11:0-1-8,Edge], [12	::0-1-8,Edge]		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-1-7-3Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCodeIRC2018/TPI2014	CSI. TC 0.78 BC 0.97 WB 0.25 Matrix-S	DEFL. ir Vert(LL) -0.20 Vert(CT) -0.31 Horz(CT) 0.02	9-10 >793 600 9-10 >529 360	PLATES GRIP MT20 244/190 Weight: 67 lb FT = 20%F, 11%E
BOT CHORD2x4 SPWEBS2x4 SPOTHERS2x4 SP	No.1(flat) No.1(flat) No.1(flat) No.1(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing except end verticals. Rigid ceiling directly applie	directly applied or 6-0-0 oc purlins, ed or 10-0-0 oc bracing.
(e) 8=Mechanical, 15=0-2-12 rav 8=655(LC 1), 15=680(LC 1)				
TOP CHORD 1-2=- BOT CHORD 11-12 WEBS 2-12=	Comp./Max. Ten All forces 250 (lb) c 910/0, 2-3=-2140/0, 3-4=-2140/0, 4-5= 2=0/910, 10-11=0/2140, 9-10=0/2140, 8 -671/0, 1-12=0/1041, 3-11=-360/0, 4-9 1339/0, 2-11=0/1328, 1-15=-765/0	-2114/0, 5-6=-2114/0 3-9=0/1213	=0/975,		
 2) Refer to girder(s) for 3) Bearing at joint(s) 15 capacity of bearing s 4) Provide mechanical 	e loads have been considered for this c truss to truss connections. considers parallel to grain value using surface. connection (by others) of truss to beari d in accordance with the 2018 Internat	ANSI/TPI 1 angle to grain f ng plate at joint(s) 15.		·	
referenced standard		ional Residential Code secti	ons R502.11.1 and R8	02.10.2 and	
, , , , , ,	4, 5, 6 has/have been modified. Buildi	ng designer must review loa	ds to verify that they a	re correct for the	
	ongbacks, on edge, spaced at 10-0-0 tached to walls at their outer ends or re		ss with 3-10d (0.131" X	3") nails.	OF MISSOL
Uniform Loads (plf) Vert: 8-13=- 2) Dead: Lumber Increa Uniform Loads (plf) Vert: 8-13=- 3) 1st chase Dead + Fli	dard alanced): Lumber Increase=1.00, Plate 8, 1-2=-80, 2-5=-102, 5-7=-80 ase=1.00, Plate Increase=1.00 8, 1-2=-80, 2-5=-102, 5-7=-80 por Live (unbalanced): Lumber Increas)		SCOTT M. SEVIER NUMBER PE-2001018807
Uniform Loads (plf) Vert: 8-13=- Continued on page 2	8, 1-2=-80, 2-4=-102, 4-5=-38, 5-7=-16)			February 27,2024

continued on page 2



Job	Truss	Truss Type	Qty	Ply	Lot 359 Park Ridge
					163886539
230472-2-F	F111	Floor	2	1	
					Job Reference (optional)
Mid West Lumber, U	rich, MO - 64788,		8	.530 s Auc	2 2023 MiTek Industries, Inc. Tue Feb 27 11:16:31 2024 Page 2

8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Feb 27 11:16:31 2024 Page 2 ID:J9IWtEYxuTeU7yVoRXqeJcy4SfV-_sCcidsLAHpNIgOInDYkJRtNH3O1IvO2Wz4BQNzgySE

LOAD CASE(S) Standard

- 4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 8-13=-8, 1-2=-16, 2-3=-38, 3-5=-102, 5-7=-80 5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 8-13a--8, 1-2=-80, 2-4=-102, 4-5=-38, 5-7=-16 6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)

Vert: 8-13=-8, 1-2=-16, 2-3=-38, 3-5=-102, 5-7=-80



loh	Truco			14.7	Dhy	Lot 250 Dort Dida-		
Job	Truss	Truss Type		ty	Ply	Lot 359 Park Ridge		163886540
230472-2-F	F112	GABLE	1		1		anal)	
Mid West Lumber, I	Jrich, MO - 64788,						tries, Inc. Tue Feb 27 11	
			ID:J	9lWtEYx	uTeU7y	/oRXqeJcy4SfV-T2l?vz	ztzwbxEwqzxLw3zrfQjjTz	BUO9CldpkyqzgySD
0- <u>1</u> -8								
								Scale = 1:37.
		3x8 =					3x4 FP=	
1 2 3	4 5 6	7 8 9	10 11	1	2	13 14	15 16 17 18	3 19 20
-2-0			<u>e e</u>		•		<u> </u>	<u> </u>
					-			
41 40 39	38 37 36 35	34 33 32 31	30 29	2	8	27 26	25 24 23	3 22 21
	3x4 FP =							
		10-2-4 10-0-0						
+ 1-0-0 + 2-4-0 1-0-0 + 1-4-0	<u>3-8-0 5-0-0 6-4-0</u> 1-4-0 1-4-0 1-4-0	7-8-0 9-0-0 9-9-12 10-4-0	<u>11-8-0 13-0-0 </u> 1-4-0 1-4-0	14-3-0 1-3-0	15-3-0	+ 16-3-0 17-0-0 18-4-0 1-0-0 0-9-0 1-4-0	<u>19-8-0</u> <u>21-0-0</u> <u>1-4-0</u> <u>1-4-0</u>	<u>22-4-0</u> <u>23-8-0</u> 1-4-0 1-4-0
		0-20-41-12	140 140	100			140 140	140 140
Plate Offsets (X,Y) [9:0-3-0,Edge]							
LOADING (psf)	SPACING- 1-7		DEFL.	in	. ,	l/defl L/d	PLATES	GRIP
TCLL 40.0 TCDL 10.0	Plate Grip DOL 1.0 Lumber DOL 1.0		Vert(LL) Vert(CT)	n/a n/a		n/a 999 n/a 999	MT20	244/190
BCLL 0.0	Rep Stress Incr YE	S WB 0.09	Horz(CT)	0.00		n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-R					Weight: 99 lb	FT = 20%F, 11%E
LUMBER-			BRACING					
TOP CHORD 2x4 SP BOT CHORD 2x4 SP			TOP CHO	RD		ral wood sheathing d end verticals.	irectly applied or 6-0-0	oc purlins,
	No.1(flat)		BOT CHO	RD		eiling directly applied	or 6-0-0 oc bracing.	
	No.1(flat)				-		0	
	rings 23-8-0.							
REACTIONS. All bea			3 38 36 35 34 3	3 30 20). 28. 27	,		
	All reactions 250 lb or les	s at joint(s) 41, 21, 32, 31, 40, 39	, oo, oo, oo, oo, o+, o	, 00, 20	.,,	,		
	av All reactions 250 lb or les 26, 25, 24, 23, 22	s at joint(s) 41, 21, 32, 31, 40, 39	, 50, 50, 50, 50, 54, 5	, 00, 20	,,	,		
(lb) - Max Gr	26, 25, 24, 23, 22	s at joint(s) 41, 21, 32, 31, 40, 38 50 (lb) or less except when show		, 00, 20	.,,	,		

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

4) Gable studs spaced at 1-4-0 oc.

- 5) 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.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.
- 8) Bottom chord under the bearing from joint 31 to joint 32 is required to be field removed at time of installation. No plates are to be damaged or removed.





ob	Truss		Truss Type			Qty	Ply	Lot 35	9 Park Ridge	9			1000005
30472-2-F	F113		GABLE			1		1 Job Re	ference (opt	ional)			I6388654
Mid West Lumber,	Urich, MO - 64788,							Aug 2 2023	3 MiTek Indu	stries, Inc.			024 Page 1
0- <mark>1</mark> -8						ID:J9IWtE	YxuleU/y	/oRXqeJcy	4StV-PRtike	uESCBy98	/KSL5Rw4\	/4?HenyItU	Cxlr1izgySB ⁰⁻ 1- ⁸
													Scale = 1:3
			3x4 FP=										
1 2 3	4	5	6 7 8	9	10	11	12	13	14	15	16	17	18
				e 	<u>e</u> 	0	•		0	e 	0		
36 35 3	4 33	32	31 30	29	28	27	26	25 24	23	22	21	20	19
3x4 =								3x4 FP=					3x4 =
0-8-0 2-0-0	3-4-0 4-8-					-4-0 12-8			4-0 16-				0-8-0
0-8-0 1-4-0	1-4-0 1-4-0	0 1-4-0) 1-4-0	1-4-0 '	1-4-0 1-	4-0 1-4	-0 1-4	1 -0 ' 1-	4-0 1-4	1-0 1-	-4-0 ¹ 1-	4-0 1	-4-0

LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-1-7-3Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.05 BC 0.01 WB 0.01 Matrix-R	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 19 n/a n/a	PLATES GRIP MT20 244/190 Weight: 86 lb FT = 20%F, 11%E
LUMBER-			BRACING-	

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat) BOT CHORD WEBS 2x4 SP No.1(flat) OTHERS 2x4 SP No.1(flat) TOP CHORD BOT CHORD

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

REACTIONS. All bearings 20-8-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 19, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 24, 23, 22, 21, 20

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

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Gable requires continuous bottom chord bearing.

3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

4) Gable studs spaced at 1-4-0 oc.

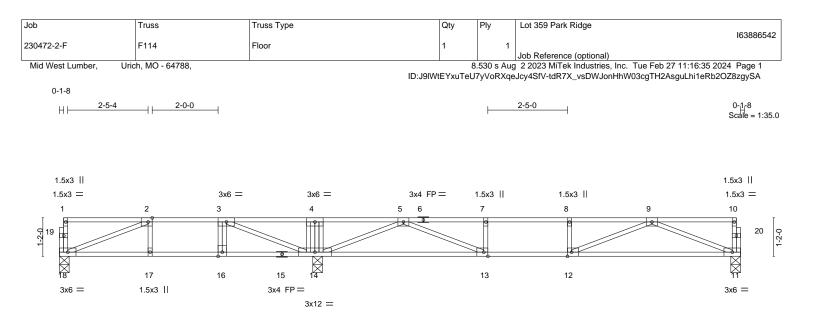
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



 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 besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property 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 **ANS/TPH1 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)





0 <u>-3-0</u> 0-3-0 Plate Offsets (X,Y)	7-10-0 7-7-0 [2:0-1-8,Edge], [12:0-1-8,Edge], [13:0-7	-8,Edge]	20-8-0 12-10-0	
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-1-7-3Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.36 BC 0.44 WB 0.21 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.14 11-12 >999 600 Vert(CT) -0.20 11-12 >752 360 Horz(CT) 0.03 11 n/a n/a	PLATES GRIP MT20 244/190 Weight: 102 lb FT = 20%F, 11%E
BOT CHORD 2x4 SF	 No.1(flat) No.1(flat) No.1(flat) 		BRACING- TOP CHORD Structural wood sheathing di except end verticals. BOT CHORD Rigid ceiling directly applied	rectly applied or 6-0-0 oc purlins, or 10-0-0 oc bracing.

REACTIONS. (size) 18=0-3-8, 14=0-3-8, 11=0-3-8

Max Grav 18=320(LC 10), 14=980(LC 1), 11=541(LC 7)

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

2-3=-568/0, 3-4=0/457, 4-5=0/457, 5-7=-1602/0, 7-8=-1602/0, 8-9=-1602/0 TOP CHORD

BOT CHORD 17-18=0/568, 16-17=0/568, 14-16=0/568, 13-14=0/1016, 12-13=0/1602, 11-12=0/1093

3-14=-857/0, 2-18=-606/0, 9-11=-1175/0, 5-14=-1293/0, 9-12=0/551, 5-13=0/741 WEBS

NOTES-

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

2) All plates are 3x4 MT20 unless otherwise indicated.

3) 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.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



 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 beigh valid for use only with with with sets outputs into design is based only door parameters shown, and is for an individual dualing 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/TPI 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) February 27,2024



Job	Truss	Truss Type	Qty	Ply	Lot 359 Park Ridge		
30472-2-F	F115	Floor	4	1			163886543
					Job Reference (option		
Vid West Lumber, L	Jrich, MO - 64788,				ug 2 2023 MiTek Industri qeJcy4SfV-Lp?VIKwU_qF		
0-1-8			ID.39IWILLI XUTE		qeocy40iv-⊑p:viitwo_qi		losengi nysbzgyos
254	2-0-0			2-5	-0		0-9-00-1-8
₩			ł	2.0	<u> </u>		0-9-00-1-8 Scale = 1:36
1.5x3							
1.5x3 =	3x6 =		3x4 FP = 1.5x	3	1.5x3		1.5x3 =
1	2 3	4	5 6 7		8	9	10 11
921							23
		17 16	Ľ.,)			
20	19 18	17 16	15	;	14		13 12
3x6 =	1.5x3	3x12 = 3x4 FF	P =				3x8 = 1.5x3 ∥
2-8-4	7-10- 5-1.1			20-6			21-8-0 <u>-20;8-0</u> -0.4[21,0,0]
2-8-4	5-1-1			20-6 12-8			
2-8-4 Plate Offsets (X,Y) [2	5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed	2	DEFL.			PLATES	20 ₁ 8-0
2-8-4 Plate Offsets (X,Y) [2 LOADING (psf) TCLL 40.0	5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- 1 Plate Grip DOL	2 [ge], [14:0-1-8,Edge], [15:0-1-8,Edge] 1-7-3 1.00 TC 0.44	Vert(LL) -0.1	12-8 in (loc) 3 13-14	-8 l/defl L/d >999 600	PLATES MT20	20 ₇ 8-0 0-1-81-0-0
2-8-4 Plate Offsets (X,Y) [2 OADING (psf) [2 CLL 40.0 CDL 10.0	¹ <u>5-1-1</u> 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- 1 Plate Grip DOL Lumber DOL	2 [ge], [14:0-1-8,Edge], [15:0-1-8,Edge] 1-7-3 1.00 TC 0.44 1.00 BC 0.43	Vert(LL) -0.1 Vert(CT) -0.1	12-8 in (loc) 3 13-14 5 13-14	-8 I/defl L/d >999 600 >999 360		<u>20-8-0</u> 0-1-81-0-0 GRIP
2-8-4 Plate Offsets (X,Y) [2] COADING (psf) [2] CCLL 40.0 CDL 10.0 3CLL 0.0	5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- 1 Plate Grip DOL	2 [ge], [14:0-1-8,Edge], [15:0-1-8,Edge] 1-7-3 1.00 TC 0.44 1.00 BC 0.43 NO WB 0.21	Vert(LL) -0.1	12-8 in (loc) 3 13-14 5 13-14	-8 l/defl L/d >999 600		2018-0 0-1-81-0-0 GRIP 244/190
2-8-4 'late Offsets (X,Y) [2 OADING (psf) [2 CLL 40.0 [2 CDL 10.0 [2 CCL 0.0 [2	1 5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- 1 Plate Grip DOL Lumber DOL Rep Stress Incr	2 [ge], [14:0-1-8,Edge], [15:0-1-8,Edge] 1-7-3 1.00 TC 0.44 1.00 BC 0.43 NO WB 0.21	Vert(LL) -0.1 Vert(CT) -0.1	12-8 in (loc) 3 13-14 5 13-14	-8 I/defl L/d >999 600 >999 360	MT20	2018-0 0-1-81-0-0 GRIP 244/190
2-8-4 late Offsets (X,Y) [2] OADING (psf) [2] CLL 40.0 [2] CDL 10.0 [2] CDL 5.0 [2] UMBER- OP CHORD 2x4 SP I	1 5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- 1 Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2	2 [ge], [14:0-1-8,Edge], [15:0-1-8,Edge] 1-7-3 1.00 TC 0.44 1.00 BC 0.43 NO WB 0.21	Vert(LL) -0.1 Vert(CT) -0.1 Horz(CT) 0.0	12-8 in (loc) 3 13-14 5 13-14)2 13 Structu	-8 //defl L/d >999 600 >999 360 n/a n/a ural wood sheathing dire	MT20 Weight: 109 lb	<u>2018-0</u> 0-1-81-0-0 GRIP 244/190 FT = 20%F, 11%I
2-8-4 Plate Offsets (X,Y) [2] OADING (psf) [2] CLL 40.0 [2] CDL 5.0 [2] UMBER- [2] CO CHORD 2x4 SP I [3]	1 5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- 1 Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2: No.1(flat) No.1(flat)	2 [ge], [14:0-1-8,Edge], [15:0-1-8,Edge] 1-7-3 1.00 TC 0.44 1.00 BC 0.43 NO WB 0.21	Vert(LL) -0.1 Vert(CT) -0.1 Horz(CT) 0.0 BRACING- TOP CHORD	12-8 in (loc) 3 13-14 5 13-14)2 13 Structu except	//defl L/d >999 600 >999 360 n/a n/a ural wood sheathing dire end verticals.	MT20 Weight: 109 lb	<u>2018-0</u> 0-1-81-0-0 GRIP 244/190 FT = 20%F, 11%I
2-8-4 Plate Offsets (X,Y) [2] OADING (psf) [2] CCLL 40.0 [2] CDL 10.0 [3] GCLL 5.0 [3] UMBER- [3] OP CHORD 2x4 SP I GOT CHORD 2x4 SP I VEBS 2x4 SP I	1 5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- 1 Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2: No.1(flat) No.1(flat)	2	Vert(LL) -0.1 Vert(CT) -0.1 Horz(CT) 0.0 BRACING-	12-8 in (loc) 3 13-14 5 13-14)2 13 Structu except	-8 //defl L/d >999 600 >999 360 n/a n/a ural wood sheathing dire	MT20 Weight: 109 lb	<u>2018-0</u> 0-1-81-0-0 GRIP 244/190 FT = 20%F, 11%I
2-8-4 Plate Offsets (X,Y) [2] OADING (psf) [2] "CLL 40.0 [2] "CDL 10.0 [2] GCDL 5.0 [2] UMBER- [0] "OP CHORD 2x4 SP I GOT CHORD 2x4 SP I VEBS 2x4 SP I REACTIONS. (size)	1 5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- 1 Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2: No.1(flat) No.1(flat)	2 [ge], [14:0-1-8,Edge], [15:0-1-8,Edge] 1-7-3 1.00 TC 0.44 1.00 BC 0.43 NO WB 0.21 014 Matrix-S =0-3-8	Vert(LL) -0.1 Vert(CT) -0.1 Horz(CT) 0.0 BRACING- TOP CHORD	12-8 in (loc) 3 13-14 5 13-14)2 13 Structu except	//defl L/d >999 600 >999 360 n/a n/a ural wood sheathing dire end verticals.	MT20 Weight: 109 lb	<u>2018-0</u> 0-1-81-0-0 GRIP 244/190 FT = 20%F, 11%
2-8-4 Plate Offsets (X,Y) (ADING (psf) CCL 40.0 CCL 10.0 CCL 5.0 UMBER- OP CHORD 2x4 SP I OT CHORD 2x4 SP I VEBS 2x4 SP I REACTIONS. (size) Max Graves	1 5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2 No.1(flat) No.1(flat) 20=0-3-8, 17=0-3-8, 13:4 av 20=314(LC 14), 17=974	2 [ge], [14:0-1-8,Edge], [15:0-1-8,Edge] 1-7-3 1.00 TC 0.44 1.00 BC 0.43 NO WB 0.21 014 Matrix-S =0-3-8 4(LC 3), 13=856(LC 4)	Vert(LL) -0.1 Vert(CT) -0.1 Horz(CT) 0.0 BRACING- TOP CHORD BOT CHORD	12-8 in (loc) 3 13-14 5 13-14)2 13 Structu except	//defl L/d >999 600 >999 360 n/a n/a ural wood sheathing dire end verticals.	MT20 Weight: 109 lb	<u>2018-0</u> 0-1-81-0-0 GRIP 244/190 FT = 20%F, 11%I
2-8-4 'late Offsets (X,Y) [2 OADING (psf) [2 CLL 40.0 [2 CDL 10.0 [2 CCL 5.0 [2 UMBER- [2 OP CHORD 2x4 SP I [3 OT CHORD 2x4 SP I [5 VEBS 2x4 SP I [size) Max Gra [size] ORCES. (lb) - Max. C [size]	1 5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- 1 Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2/ No.1(flat) No.1(flat) 20=0-3-8, 17=0-3-8, 13: av 20=314(LC 14), 17=974 comp./Max. Ten All forces	2 [ge], [14:0-1-8,Edge], [15:0-1-8,Edge] 1-7-3 1.00 TC 0.44 1.00 BC 0.43 NO WB 0.21 014 Matrix-S =0-3-8	Vert(LL) -0.1 Vert(CT) -0.1 Horz(CT) 0.0 BRACING- TOP CHORD BOT CHORD	12-8 in (loc) 3 13-14 5 13-14)2 13 Structu except	//defl L/d >999 600 >999 360 n/a n/a ural wood sheathing dire end verticals.	MT20 Weight: 109 lb	<u>2018-0</u> 0-1-81-0-0 GRIP 244/190 FT = 20%F, 11%I
2-8-4 Plate Offsets (X,Y) [2] OADING (psf) [2] CCLL 40.0 CCDL 10.0 SCDL 5.0 JUMBER- OP CHORD OP CHORD 2x4 SP I SOT CHORD 2x4 SP I VEBS 2x4 SP I REACTIONS. (size) Max Gra SOT CHORD COP CHORD 2-3=-5 SOT CHORD 2-3=-5 SOT CHORD 19-20=	1 5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- 1 Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2 No.1(flat) No.1(flat) 20=0-3-8, 17=0-3-8, 13: av 20=314(LC 14), 17=974 comp./Max. Ten All force: 47/13, 3-4=0/501, 4-5=0/50 13/547, 18-19=-13/547, 1	2	Vert(LL) -0.1 Vert(CT) -0.1 Horz(CT) 0.0 BRACING- TOP CHORD BOT CHORD	12-8 in (loc) 3 13-14 5 13-14)2 13 Structu except	//defl L/d >999 600 >999 360 n/a n/a ural wood sheathing dire end verticals.	MT20 Weight: 109 lb	<u>2018-0</u> 0-1-81-0-0 GRIP 244/190 FT = 20%F, 11%I
2-8-4 'late Offsets (X,Y) [2] OADING (psf) [2] CLL 40.0 [2] CDL 10.0 [2] CCL 5.0 [2] UMBER- [0] OP CHORD 2x4 SP I OT CHORD 2x4 SP I VEBS 2x4 SP I EEACTIONS. (size) Max Gra OP CHORD 2-3=-5 OT CHORD 19-20= 13-14=	1 5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- Plate Grip DOL Lumber DOL, Rep Stress Incr Code IRC2018/TPI2 No.1(flat) No.1(flat) v0.1(flat) v0.1(flat) 20=0-3-8, 17=0-3-8, 13: av 20=314(LC 14), 17=974 Comp./Max. Ten All force: 47/13, 3-4=0/501, 4-5=0/50 v-13/547, 18-19=-13/547, 1 v0/939	2	Vert(LL) -0.1 Vert(CT) -0.1 Horz(CT) 0.0 BRACING- TOP CHORD BOT CHORD BOT CHORD	12-8 in (loc) 3 13-14 5 13-14)2 13 Structu except	//defl L/d >999 600 >999 360 n/a n/a ural wood sheathing dire end verticals.	MT20 Weight: 109 lb	<u>2018-0</u> 0-1-81-0-0 GRIP 244/190 FT = 20%F, 11%
2-8-4 Plate Offsets (X,Y) [2] OADING (psf) [2] "CDL 40.0 "CDL 10.0 3CDL 0.0 3CDL 5.0 "UMBER-" [2] "OP CHORD 2x4 SP I 3OT CHORD 2x4 SP I REACTIONS. (size) Max Gra [3] FORCES. (ib) - Max. C "OP CHORD 2-3=-5 3OT CHORD 19-20= 13-14= [3]	1 5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2 No.1(flat) No.1(flat) 20=0-3-8, 17=0-3-8, 13: av 20=314(LC 14), 17=974 comp./Max. Ten All force: 47/13, 3-4=0/501, 4-5=0/50 -:13/547, 18-19=-13/547, 1 :0/939 583/16, 3-17=-881/0, 9-13=	2	Vert(LL) -0.1 Vert(CT) -0.1 Horz(CT) 0.0 BRACING- TOP CHORD BOT CHORD BOT CHORD	12-8 in (loc) 3 13-14 5 13-14)2 13 Structu except	//defl L/d >999 600 >999 360 n/a n/a ural wood sheathing dire end verticals.	MT20 Weight: 109 lb	2018-0 0-1-81-0-0 GRIP 244/190 FT = 20%F, 11%E
2-8-4 Plate Offsets (X,Y) [2] COADING (psf) [CLL 40.0 TCLL 40.0 [3] CODL 10.0 [3] 3CDL 5.0 [3] LUMBER- COP CHORD 2x4 SP I SOT CHORD 2x4 SP I WEBS 2x4 SP I REACTIONS. (size) Max Gra FORCES. (lb) - Max. C FOP CHORD 2-3=-5 [3] GOT CHORD 19-20= 13-14= WEBS 2-20=- 11-13=	1 5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2 No.1(flat) No.1(flat) 20=0-3-8, 17=0-3-8, 13: av 20=314(LC 14), 17=974 comp./Max. Ten All force: 47/13, 3-4=0/501, 4-5=0/50 -:13/547, 18-19=-13/547, 1 :0/939 583/16, 3-17=-881/0, 9-13=	2	Vert(LL) -0.1 Vert(CT) -0.1 Horz(CT) 0.0 BRACING- TOP CHORD BOT CHORD BOT CHORD	12-8 in (loc) 3 13-14 5 13-14)2 13 Structu except	//defl L/d >999 600 >999 360 n/a n/a ural wood sheathing dire end verticals.	MT20 Weight: 109 lb	2018-0 0-1-81-0-0 GRIP 244/190 FT = 20%F, 11%E
2-8-4 'late Offsets (X,Y) [2] OADING (psf) [2] CLL 40.0 [2] CDL 10.0 [2] CCL 5.0 [2] UMBER- [0] OP CHORD 2x4 SP I OT CHORD 2x4 SP I VEBS 2x4 SP I SEACTIONS. (size) Max Gra OP CHORD 2-3=-5 OT CHORD 19-20= 13-14= VEBS 2-20=- 11-13= IOTES-) Unbalanced floor live	1 5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2 No.1(flat) No.1(flat) v0.1(flat) v20=314(LC 14), 17=974 comp./Max. Ten All forces 47/13, 3-4=0/501, 4-5=0/50 c-33/547, 18-19=-13/547, 1 :0/939 583/16, 3-17=-881/0, 9-13: c-314/0 loads have been considered	2	Vert(LL) -0.1 Vert(CT) -0.1 Horz(CT) 0.0 BRACING- TOP CHORD BOT CHORD BOT CHORD	12-8 in (loc) 3 13-14 5 13-14)2 13 Structu except	//defl L/d >999 600 >999 360 n/a n/a ural wood sheathing dire end verticals.	MT20 Weight: 109 lb	<u>2018-0</u> 0-1-81-0-0 GRIP 244/190 FT = 20%F, 11%I
2-8-4 late Offsets (X,Y) [2 OADING (psf) [2 CLL 40.0 CDL 10.0 CDL 5.0 [2 UMBER- OP CHORD 2x4 SP I OP CHORD 2x4 SP I [2 CES 2x4 SP I [3 EACTIONS. (size) Max Gra [3-14] VEBS 2-20= 13-14= /EBS 2-20= 11-13= OTES- (bor live)) Unbalanced floor live) All plates are 3x4 MT2	1 5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2 No.1(flat) No.1(flat) 20=0-3-8, 17=0-3-8, 13: av 20=314(LC 14), 17=974 comp./Max. Ten All forces 47/13, 3-4=0/501, 4-5=0/50 c-334/0 loads have been considere 20 unless otherwise indicat	2	Vert(LL) -0.1 Vert(CT) -0.1 Horz(CT) 0.0 BRACING- TOP CHORD BOT CHORD BOT CHORD 190/0 '1490, 5-15=0/691,	12-8 in (loc) 3 13-14 5 13-14 12 13 Structu except Rigid c	-8 I/defl L/d >999 600 >999 360 n/a n/a ural wood sheathing dire end verticals. eiling directly applied o	MT20 Weight: 109 lb	<u>2018-0</u> 0-1-81-0-0 GRIP 244/190 FT = 20%F, 11%
2-8-4 late Offsets (X,Y) [2 OADING (psf) [2 CLL 40.0 CDL 10.0 CDL 5.0 [2 UMBER- OP CHORD 2x4 SP I OP CHORD 2x4 SP I [2 CES 2x4 SP I [3 EACTIONS. (size) Max Gra [3-14] VEBS 2-20= 13-14= /EBS 2-20= 11-13= OTES- (bor live)) Unbalanced floor live) All plates are 3x4 MT2	1 5-1-1 2:0-1-8,Edge], [11:0-1-8,Ed SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2/ No.1(flat) No.1(flat) 20=0-3-8, 17=0-3-8, 13: av 20=314(LC 14), 17=974 comp./Max. Ten All force: 47/13, 3-4=0/501, 4-5=0/50 -:3/547, 18-19=-13/547, 1 :0/939 583/16, 3-17=-881/0, 9-13: -:314/0 loads have been considered 20 unless otherwise indicat in accordance with the 20	2	Vert(LL) -0.1 Vert(CT) -0.1 Horz(CT) 0.0 BRACING- TOP CHORD BOT CHORD BOT CHORD 190/0 '1490, 5-15=0/691,	12-8 in (loc) 3 13-14 5 13-14 12 13 Structu except Rigid c	-8 I/defl L/d >999 600 >999 360 n/a n/a ural wood sheathing dire end verticals. eiling directly applied o	MT20 Weight: 109 lb	<u>2018-0</u> 0-1-81-0-0 GRIP 244/190 FT = 20%F, 11%E

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means. 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

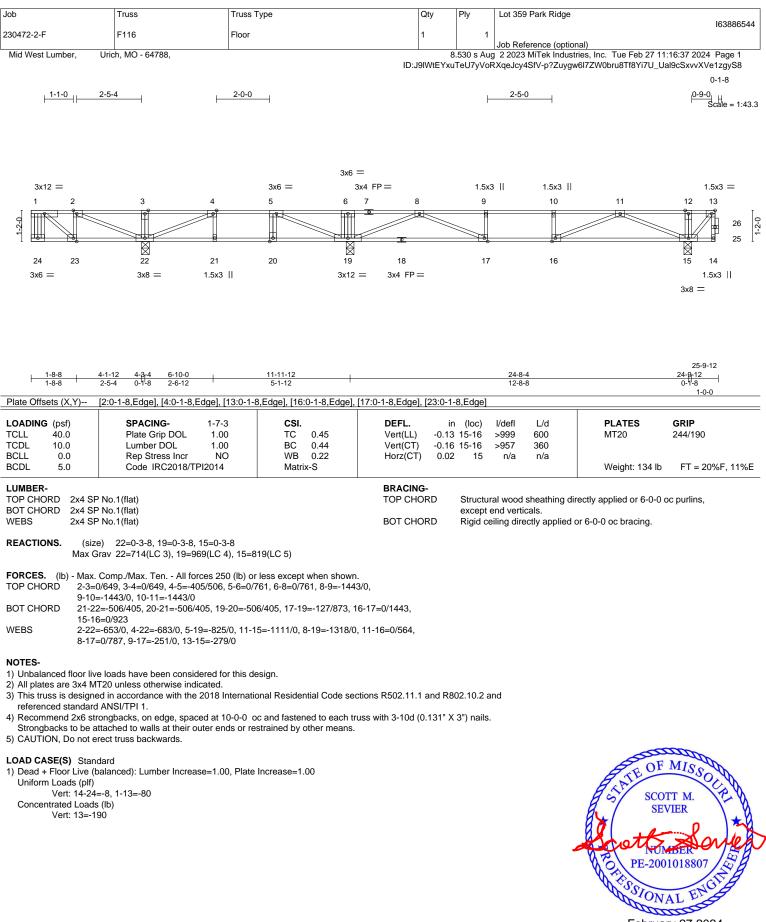
Vert: 12-20=-8, 1-11=-80

- Concentrated Loads (lb)
 - Vert: 11=-220



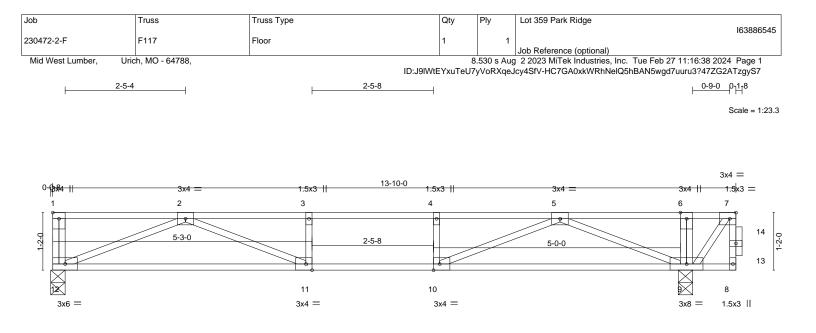
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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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February 27,2024





		<u>12-10-8</u> 12-10-8							3-0-0 14-0-0 0-1-8 1-0-0
Plate Offsets (X,Y)	[1:Edge,0-1-8], [7:0-1-8,Edge], [10:0-1-								
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-1-7-3Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.55 BC 0.52 WB 0.20 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.15 1 -0.23 1 0.02		l/defl >999 >676 n/a	L/d 600 360 n/a	PLATES MT20 Weight: 69 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SF	² No.1(flat) ² No.1(flat) ² No.1(flat)		BRACING TOP CHOP BOT CHOP	RD S	except	end vert	icals.	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
REACTIONS. (siz Max G	e) 12=0-3-8, 9=0-3-8 Grav 12=544(LC 3), 9=882(LC 1)								
TOP CHORD 2-3= BOT CHORD 11-1:	Comp./Max. Ten All forces 250 (lb) of -1587/0, 3-4=-1587/0, 4-5=-1587/0 2=0/1090, 10-11=0/1587, 9-10=0/976 =-1176/0, 5-9=-1198/0, 2-11=0/624, 5-10	·							
NOTES-	re loads have been considered for this d	esian							

Unbalanced floor live loads have been considered for this design.

2) 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.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 8-12=-8, 1-7=-80

Concentrated Loads (lb) Vert: 7=-220



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/TPH Claulity 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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230472-2-F	Truss	Truss Type	Qty	Ply	Lot 359 Park Ridge		1000007
	F118	Floor	1	1			16388654
Aid Moot Lumbor	Urich MO 64799			9 520 a Ai	Job Reference (option		16:40 2024 Dage 1
Mid West Lumber,	Urich, MO - 64788,					tries, Inc. Tue Feb 27 11 z?22x5t3aTpcCrALlzahXN	
0-3-0						·	0,
⊣⊢ <u>1-8-8</u> ⊣⊨	1-8-8 0-10-12 1-10-0	2-5-4	<u>0-11-8</u>		2-5	-0	0-1-8 Scale: 1/4"=
1 11 11		Ι			I	I	Scale: 1/4"=
3x6 = 4x8 =	= 3x12 = 3x4	= 3x4 FP = 3x8 =	4x4 = 3x6 =	3x6	=	3x4	=
1 2	3 4 5	6 7 8	9 10	11	12	13 14	
							29
	<u></u>					t	
27 26	25 24 23	22	21 20 19		18	17	16
5x10 =	3x12 = 3x4 =	4x8 =	3x4 FP=		4x4 =	3x4 =	3x6 =
			4x4 = 3x12 =				
2-1-12	4-2-0 5-3-0	14-8-8	16-1-8	21-2-0		28-11-8	
2-1-12	2-0-4 1-1-0	9-5-8	1-5-0	5-0-8	24:0.1.8 Edge] [25:0	7-9-8	1 01
Plate Offsets (X,Y)		e], [9:0-1-8,Edge], [17:0-1-8,Edge],					
OADING (psf) CLL 40.0		-7-3 CSI. 1.00 TC 0.55		in (loc) 8 23-24	l/defl L/d >999 600	PLATES MT20	GRIP 244/190
TCDL 10.0		1.00 BC 0.70		5 16-17	>602 360	11120	244/100
BCLL 0.0	Rep Stress Incr	NO WB 0.42	Horz(CT) 0.0	5 16	n/a n/a		
3CDL 5.0	Code IRC2018/TPI20	14 Matrix-S				Weight: 148 lb	FT = 20%F, 11%
LUMBER-	2400E 2 0E(flat)		BRACING-	Structu	ral wood sheathing d	irectly applied or 6-0-0 (o nurline
UMBER-	2400F 2.0E(flat) 2400F 2.0E(flat)		BRACING- TOP CHORD		ral wood sheathing d end verticals.	irectly applied or 6-0-0 o	oc purlins,
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF				except Rigid c	end verticals. eiling directly applied	or 10-0-0 oc bracing, I	
LUMBER- TOP CHORD 2x4 SF 30T CHORD 2x4 SF WEBS 2x4 SF	2400F 2.0E(flat) P No.1(flat)	0-3-8	TOP CHORD	except Rigid c	end verticals.	or 10-0-0 oc bracing, I	
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. (siz	2400F 2.0E(flat)		TOP CHORD	except Rigid c	end verticals. eiling directly applied	or 10-0-0 oc bracing, I	
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. (siz Max G	2 2400F 2.0E(flat) 2 No.1(flat) e) 27=0-3-8, 16=0-3-8, 19= 3 av 27=1784(LC 10), 16=49	6(LC 4), 19=1666(LC 1)	TOP CHORD BOT CHORD	except Rigid c	end verticals. eiling directly applied	or 10-0-0 oc bracing, I	
UMBER- TOP CHORD 2x4 SF SOT CHORD 2x4 SF VEBS 2x4 SF REACTIONS. (siz Max O FORCES. (lb) - Max. TOP CHORD 1-27	 2400F 2.0E(flat) No.1(flat) e) 27=0-3-8, 16=0-3-8, 19= Brav 27=1784(LC 10), 16=490 Comp./Max. Ten All forces =-309/0, 2-3=-3708/0, 3-4=-30 	6(LC 4), 19=1666(LC 1) 250 (lb) or less except when show 563/0, 4-5=-3663/0, 5-7=-2932/0, 7	TOP CHORD BOT CHORD /n. '-8=-2932/0,	except Rigid c	end verticals. eiling directly applied	or 10-0-0 oc bracing, I	
UMBER- OP CHORD 2x4 SF SOT CHORD 2x4 SF VEBS 2x4 SF REACTIONS. (siz Max O FORCES. (lb) - Max. OP CHORD 1-27 8-9=	 2400F 2.0E(flat) No.1(flat) e) 27=0-3-8, 16=0-3-8, 19= Brav 27=1784(LC 10), 16=490 Comp./Max. Ten All forces =-309/0, 2-3=-3708/0, 3-4=-30 	6(LC 4), 19=1666(LC 1) 250 (lb) or less except when show	TOP CHORD BOT CHORD /n. '-8=-2932/0,	except Rigid c	end verticals. eiling directly applied	or 10-0-0 oc bracing, I	
LUMBER- TOP CHORD 2x4 SF SOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. (siz Max G FORCES. (lb) - Max. FOP CHORD 1-27 8-9= 13-1 SOT CHORD 26-2	 2400F 2.0E(flat) No.1(flat) e) 27=0-3-8, 16=0-3-8, 19= 3rav 27=1784(LC 10), 16=490 Comp./Max. Ten All forces =-309/0, 2-3=-3708/0, 3-4=-30 -19/569, 9-10=0/1725, 10-11= 4=-1329/159 7=0/2787, 25-26=0/2787, 24- 	6(LC 4), 19=1666(LC 1) 250 (lb) or less except when show 363/0, 4-5=-3663/0, 5-7=-2932/0, 7 60/1733, 11-12=-1329/159, 12-13= 25=0/3757, 23-24=0/3663, 22-23=	TOP CHORD BOT CHORD /n. '-8=-2932/0, -1329/159,	except Rigid c	end verticals. eiling directly applied	or 10-0-0 oc bracing, I	
LUMBER- FOP CHORD 2x4 SF SOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. (siz Max O FORCES. (lb) - Max. FOP CHORD 1-27 8-9= 13-1 30T CHORD 26-2 19-2	 2400F 2.0E(flat) No.1(flat) e) 27=0-3-8, 16=0-3-8, 19= Grav 27=1784(LC 10), 16=490 Comp./Max. Ten All forces =-309/0, 2-3=-3708/0, 3-4=-30 -19/569, 9-10=0/1725, 10-11= 4=-1329/159 7=0/2787, 25-26=0/2787, 24- 21=-569/19, 18-19=-707/575, 	6(LC 4), 19=1666(LC 1) 250 (lb) or less except when show 563/0, 4-5=-3663/0, 5-7=-2932/0, 7 60/1733, 11-12=-1329/159, 12-13= 25=0/3757, 23-24=0/3663, 22-23= 17-18=-159/1329, 16-17=0/981	TOP CHORD BOT CHORD 'n. -8=-2932/0, -1329/159, 0/3663, 21-22=0/1725,	except Rigid c	end verticals. eiling directly applied	or 10-0-0 oc bracing, I	
UMBER- OP CHORD 2x4 SF SOT CHORD 2x4 SF VEBS 2x4 SF REACTIONS. (siz Max OF CORCES. (lb) - Max. OP CHORD 1-27 8-9= 13-1 30T CHORD 26-22 19-2 VEBS 2-27 14-1	 2400F 2.0E(flat) No.1(flat) e) 27=0-3-8, 16=0-3-8, 19= Srav 27=1784(LC 10), 16=490 Comp./Max. Ten All forces =-309/0, 2-3=-3708/0, 3-4=-30 -19/569, 9-10=0/1725, 10-11= 4=-1329/159 7=0/2787, 25-26=0/2787, 24- 21=-569/19, 18-19=-707/575, =-3115/0, 9-21=0/791, 3-25=- 7=-211/377, 12-18=-332/0, 11 	6(LC 4), 19=1666(LC 1) 250 (lb) or less except when show 363/0, 4-5=-3663/0, 5-7=-2932/0, 7 40/1733, 11-12=-1329/159, 12-13= 25=0/3757, 23-24=0/3663, 22-23= 17-18=-159/1329, 16-17=0/981 463/0, 8-21=-1962/0, 8-22=0/1407 -19=-1537/0, 11-18=0/1093, 9-19=	TOP CHORD BOT CHORD '-8=-2932/0, -1329/159, 0/3663, 21-22=0/1725, , 14-16=-1054/0,	except Rigid c	end verticals. eiling directly applied	or 10-0-0 oc bracing, I	
LUMBER- TOP CHORD 2x4 SF SOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. (siz Max OF FORCES. (lb) - Max. TOP CHORD 1-27 8-9= 13-1 30T CHORD 26-22 19-2 WEBS 2-27 14-1	 2400F 2.0E(flat) No.1(flat) e) 27=0-3-8, 16=0-3-8, 19= Grav 27=1784(LC 10), 16=490 Comp./Max. Ten All forces =-309/0, 2-3=-3708/0, 3-4=-30 -19/569, 9-10=0/1725, 10-11= 4=-1329/159 7=0/2787, 25-26=0/2787, 24- 19-569/19, 18-19=-707/575, =-3115/0, 9-21=0/791, 3-25=- 	6(LC 4), 19=1666(LC 1) 250 (lb) or less except when show 363/0, 4-5=-3663/0, 5-7=-2932/0, 7 40/1733, 11-12=-1329/159, 12-13= 25=0/3757, 23-24=0/3663, 22-23= 17-18=-159/1329, 16-17=0/981 463/0, 8-21=-1962/0, 8-22=0/1407 -19=-1537/0, 11-18=0/1093, 9-19=	TOP CHORD BOT CHORD '-8=-2932/0, -1329/159, 0/3663, 21-22=0/1725, , 14-16=-1054/0,	except Rigid c	end verticals. eiling directly applied	or 10-0-0 oc bracing, I	
UMBER- OP CHORD 2x4 SF SOT CHORD 2x4 SF VEBS 2x4 SF REACTIONS. (siz Max OF CORCES. (lb) - Max. OP CHORD 1-27 8-9= 13-1 30T CHORD 26-22 19-2 VEBS 2-27 14-1	 2400F 2.0E(flat) No.1(flat) e) 27=0-3-8, 16=0-3-8, 19= Srav 27=1784(LC 10), 16=490 Comp./Max. Ten All forces =-309/0, 2-3=-3708/0, 3-4=-30 -19/569, 9-10=0/1725, 10-11= 4=-1329/159 7=0/2787, 25-26=0/2787, 24- 21=-569/19, 18-19=-707/575, =-3115/0, 9-21=0/791, 3-25=- 7=-211/377, 12-18=-332/0, 11 	6(LC 4), 19=1666(LC 1) 250 (lb) or less except when show 363/0, 4-5=-3663/0, 5-7=-2932/0, 7 40/1733, 11-12=-1329/159, 12-13= 25=0/3757, 23-24=0/3663, 22-23= 17-18=-159/1329, 16-17=0/981 463/0, 8-21=-1962/0, 8-22=0/1407 -19=-1537/0, 11-18=0/1093, 9-19=	TOP CHORD BOT CHORD '-8=-2932/0, -1329/159, 0/3663, 21-22=0/1725, , 14-16=-1054/0,	except Rigid c	end verticals. eiling directly applied	or 10-0-0 oc bracing, I	
UMBER- TOP CHORD 2x4 SF SOT CHORD 2x4 SF VEBS 2x4 SF REACTIONS. (siz Max O FORCES. (lb) - Max. TOP CHORD 1-27 8-9= 13-1. 30T CHORD 26-2 19-2 VEBS 2-27 14-1 5-22: NOTES-) Unbalanced floor liv	 2400F 2.0E(flat) No.1(flat) e) 27=0-3-8, 16=0-3-8, 19= Grav 27=1784(LC 10), 16=490 Comp./Max. Ten All forces =-309/0, 2-3=-3708/0, 3-4=-31- -19/569, 9-10=0/1725, 10-11= 4=-1329/159 7=0/2787, 25-26=0/2787, 24- 21=-569/19, 18-19=-707/575, =-3115/0, 9-21=0/791, 3-25=- 7=-211/377, 12-18=-332/0, 11 =-1155/0, 2-25=0/1052, 3-24= re loads have been considere 	5(LC 4), 19=1666(LC 1) 250 (lb) or less except when show 563/0, 4-5=-3663/0, 5-7=-2932/0, 7 50/1733, 11-12=-1329/159, 12-13= 25=0/3757, 23-24=0/3663, 22-23= 17-18=-159/1329, 16-17=0/981 463/0, 8-21=-1962/0, 8-22=0/1407 -19=-1537/0, 11-18=0/1093, 9-19= -606/406 d for this design.	TOP CHORD BOT CHORD '-8=-2932/0, -1329/159, 0/3663, 21-22=0/1725, , 14-16=-1054/0,	except Rigid c	end verticals. eiling directly applied	or 10-0-0 oc bracing, I	
UMBER- TOP CHORD 2x4 SF SOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. (siz Max O FORCES. (lb) - Max. TOP CHORD 1-27 8-9= 13-1. SOT CHORD 26-2 19-2 WEBS 2-27 14-1 5-22 NOTES-) Unbalanced floor liv 2) All plates are 1.5x3	 2400F 2.0E(flat) No.1(flat) e) 27=0-3-8, 16=0-3-8, 19= 5rav 27=1784(LC 10), 16=49 Comp./Max. Ten All forces =-309/0, 2-3=-3708/0, 3-4=-30 -19/569, 9-10=0/1725, 10-11= 4=-1329/159 7=0/2787, 25-26=0/2787, 24- 21=-569/19, 18-19=-707/575, =-3115/0, 9-21=0/791, 3-25=- 7=-211/377, 12-18=-332/0, 11 =-1155/0, 2-25=0/1052, 3-24= e loads have been considere MT20 unless otherwise indica 	5(LC 4), 19=1666(LC 1) 250 (lb) or less except when show 563/0, 4-5=-3663/0, 5-7=-2932/0, 7 50/1733, 11-12=-1329/159, 12-13= 25=0/3757, 23-24=0/3663, 22-23= 17-18=-159/1329, 16-17=0/981 463/0, 8-21=-1962/0, 8-22=0/1407 -19=-1537/0, 11-18=0/1093, 9-19= -606/406 d for this design.	TOP CHORD BOT CHORD '-8=-2932/0, -1329/159, 0/3663, 21-22=0/1725, , 14-16=-1054/0, =-1474/0,	except Rigid c 6-0-0 o	end verticals. eiling directly applied c bracing: 19-21,18-1	or 10-0-0 oc bracing, I	-

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.

6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-27=-8, 1-3=-430(B=-350), 3-15=-80



tute (www.tpinst.org) title (www.tpinst.org)

Job	Truss	Truss Type	Qty	Ply	Lot 359 Park Ridge		
230472-2-F	F119	GABLE	1	1	Job Reference (optior		163886547
Mid West Lumber, Uri	ch, MO - 64788,			8.530 s Au			11:16:41 2024 Page 1
			D:J9IWtEYx	uTeU7yVoR	KqeJcy4SfV-inoOo1zdp	M3yVC9gNJj4jYIGE5	1N5TcWpXVjnozgyS4
01 <mark>17</mark> 8							0 ₁ 18
							Scale = 1:23.2
1 2	3 4	5 6 7		8	9	10 11	12
24 23	22 21	20 19 18		17	16	15 14	13
3x4 =							3x4 =
0-8-0 2-0-0 0-8-0 1-4-0	3-4-0 4- 1-4-0 1-	8-0 6-0-0 7-4-0 4-0 1-4-0 1-4-0	8-8-0 1-4-0	10· 1-·	0-0 11-4-0 4-0 1-4-0	12-8-0 1-4-0	14-1-0 1-5-0
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	0 TC 0.05 Ve 0 BC 0.01 Ve	t(LL) t(CT)	in (loc) n/a - n/a - 00 13	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20	GRIP 244/190

LUMBER-

BCDL

 TOP CHORD
 2x4 SP No.1(flat)

 BOT CHORD
 2x4 SP No.1(flat)

 WEBS
 2x4 SP No.1(flat)

 OTHERS
 2x4 SP No.1(flat)

5.0

BRACING-TOP CHORD BOT CHORD

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

Weight: 60 lb

FT = 20%F, 11%E

REACTIONS. All bearings 14-1-0.

(Ib) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

Code IRC2018/TPI2014

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Gable requires continuous bottom chord bearing.

3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

4) Gable studs spaced at 1-4-0 oc.

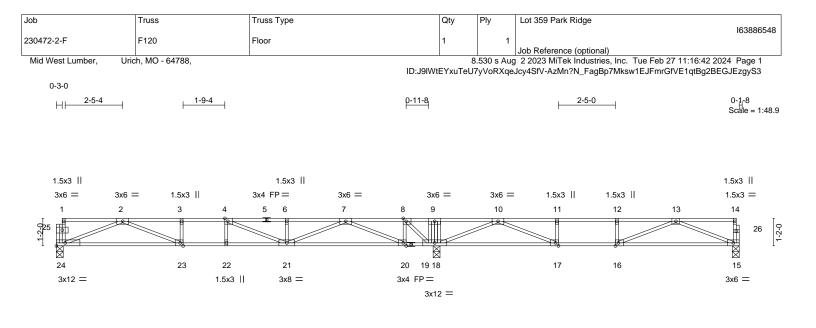
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Matrix-R

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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L	14-8-8		16-1-8	21-2-0	1	28-11-8	
	14-8-8		1-5-0	5-0-8	I	7-9-8	I
Plate Offsets (X,Y)	[4:0-1-8,Edge], [8:0-1-8,Edge], [16:0-1-4	8,Edge], [17:0-1-8,Edge],	[20:0-1-8,Edge], [23:0)-1-8,Edge]			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.71 BC 0.63 WB 0.25 Matrix-S	Vert(CT) -0	in (loc) l/defl .21 15-16 >735 .30 15-16 >508 .04 15 n/a	L/d 600 360 n/a	PLATES MT20 Weight: 142 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SI	P No.1(flat) P No.1(flat) P No.1(flat)	BRACING- TOP CHORD BOT CHORD	except end vert	icals.	ectly applied or 6-0-0 or 6-0-0 or 6-0-0 oc bracing.	oc purlins,	

REACTIONS. (size) 24=0-3-8, 15=0-3-8, 18=0-3-8 Max Grav 24=623(LC 10), 15=501(LC 4), 18=1472(LC 1)

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

 TOP CHORD
 2-3=-2113/0, 3-4=-2113/0, 4-6=-2007/0, 6-7=-2007/0, 7-8=0/654, 8-9=0/1578, 9-10=0/1585, 10-11=-1358/91, 11-12=-1358/91, 12-13=-1358/91

 BOT CHORD
 23-24=0/1335, 22-23=0/2113, 21-22=0/2113, 20-21=0/1199, 18-20=-654/0, 17-18=-596/621, 16-17=-91/1358, 15-16=0/993

 WEBS
 2-24=-1426/0, 8-20=0/602, 2-23=0/842, 7-20=-1495/0, 7-21=0/972, 13-15=-1067/0, 13-16=-167/395, 11-17=-319/0, 10-18=-1509/0, 10-17=0/1046, 8-18=-1179/0, 4-21=-499/0

NOTES-

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

2) All plates are 3x4 MT20 unless otherwise indicated.

3) 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.

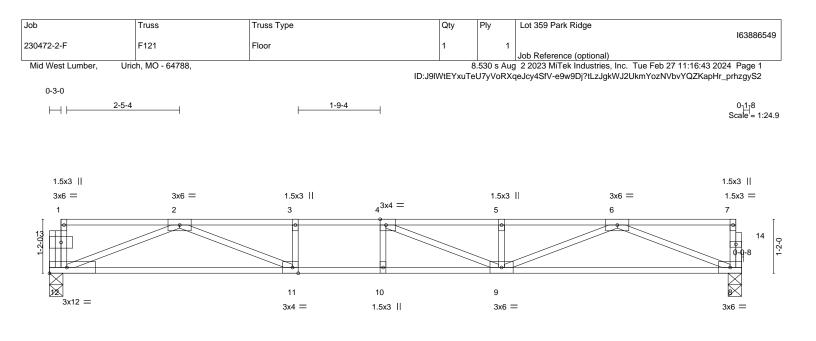
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CALITION Do not creat truce backwards

5) CAUTION, Do not erect truss backwards.







			14-11-8 14-11-8			<u>15-</u> 0-0 0-0-8
Plate Offsets (X,Y)	[4:0-1-8,Edge], [11:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00	CSI. TC 0.50 BC 0.75	DEFL. ir Vert(LL) -0.20 Vert(CT) -0.26	9-10 >860 600 9-10 >667 360	PLATES MT20	GRIP 244/190
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.24 Matrix-S	Horz(CT) 0.03	8 n/a n/a	Weight: 74 lb	FT = 20%F, 11%E
BOT CHORD 2x4 SF	P No.1(flat) P No.1(flat) P No.1(flat)	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	,) oc purlins,	
REACTIONS. (size			Der enerte		, to o o oo brading.	
FORCES. (lb) - Max	Comp /Max Ten - All forces 250 (lb) or	less excent when shown				

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

TOP CHORD 2-3=-2178/0, 3-4=-2178/0, 4-5=-2117/0, 5-6=-2117/0

BOT CHORD 11-12=0/1364, 10-11=0/2178, 9-10=0/2178, 8-9=0/1335

WEBS 6-8=-1436/0, 2-12=-1457/0, 6-9=0/847, 2-11=0/912, 5-9=-256/0, 4-9=-379/167

NOTES-

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

2) 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.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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/TPH Claulity 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) 16023 Swingley Ridge Rd.

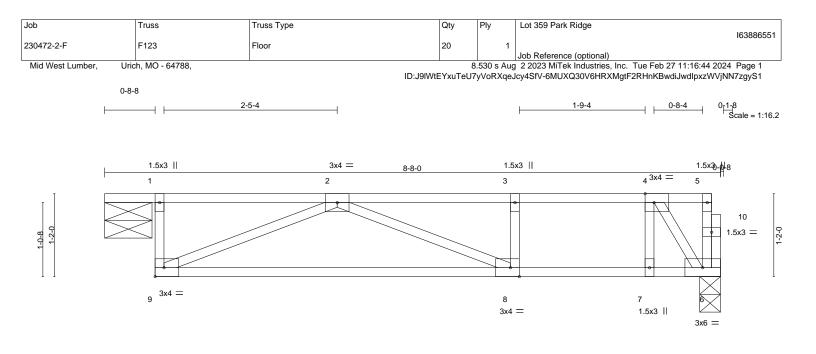
314.434.1200 / MiTek-US.com

0-8-8	F122 ch, MO - 64788, 2-5-4	Floor 	4 ID:J9IWtEYxuT		80 s Aug 2 20		ies, Inc. Tue Feb 27 1	I6388655
0-8-8		1-8-12	ID:J9IWtEYxuT		80 s Aug 2 20	23 MiTek Industr	ies, Inc. Tue Feb 27 1	1:16:44 2024 Page 1
0-8-8		1-8-12	ID:J9IWtEYxuT					
	2-5-4	1-8-12					NINGLEZKHINDWGNJI	umInxzWVjNN7zgyS1
		1-0-12						0-1-8
1592								0- <u>1-</u> 8 Scale = 1:25
15-21								
15-21								
1.5v2								1.5x3
1.575 []	3x6 =	1.5x3			1.5x3		3x6 =	1.5x3 =
1 2	3	4	$5^{3x4} =$		6		7	8
		•			•			• 14
1-2-0								
			•					
13		12	11		10			\mathbf{k}
3x4 =		3x4 =	1.5x3		3x6 =			3x6 =
late Offsets (X,Y) [5:	D-1-8,Edge], [12:0-1-8,Edge]		14-5-0					15-4-0 0-3-0 0-0-8
OADING (psf)	SPACING- 1-7-3	CSI.	DEFL.	in	(loc) l/defl	L/d	PLATES	GRIP
CLL 40.0 CDL 10.0	Plate Grip DOL 1.00 Lumber DOL 1.00	TC 0.50 BC 0.74		-0.20 10		600 360	MT20	244/190
BCLL 0.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.23	Horz(CT)	0.03	9 n/a	n/a	Mainht 70 lb	
		Matrix-S					Weight: 72 lb	FT = 20%F, 11%
UMBER- OP CHORD 2x4 SP No	p.1(flat)		BRACING- TOP CHORI	o s	tructural woo	d sheathing dir	ectly applied or 6-0-0) oc purlins,
OT CHORD 2x4 SP No /EBS 2x4 SP No			BOT CHORE		xcept end ve liaid ceilina d		r 10-0-0 oc bracing.	
	9=0-3-8, 13=Mechanical				5 5 .		J	
()	9=632(LC 4), 13=697(LC 1)							
		(lb) or less except when showr	۱.					
	19/0, 4-5=-2119/0, 5-6=-2081/ /1294, 11-12=0/2119, 10-11=							
/EBS 3-13=-1- 5-10=-3		9, 4-12=-253/0, 6-10=-256/0, 7-5	9=-1416/0,					
IOTES-	· · · · -							
) Unbalanced floor live lo	ads have been considered for	this design.						
 Refer to girder(s) for true This truss is designed i 		ternational Residential Code se	ctions R502.11.1 ar	nd R802.	.10.2 and			
referenced standard AN	ISI/TPI 1.							
) Recommend 2v6 offer	gbacks, on edge, spaced at 10	-u-u uu anu iasteneu tu each ti	uaa wuu a=iuu iu. L					

5) CAUTION, Do not erect truss backwards.







	0-8-8 0-8-8		8-8-0 7-11-8	<u>8-8</u> -8 0-0-8		
Plate Offsets (X,Y)	[4:0-1-8,Edge], [8:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-1-7-3Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.67 BC 0.62 WB 0.10 Matrix-S	DEFL. in Vert(LL) -0.13 Vert(CT) -0.22 Horz(CT) -0.02	8-9 >695 600 8-9 >421 360	PLATES GRIP MT20 244/190 Weight: 41 lb FT = 20%F, 11%E	
LUMBER- TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.1(flat)			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	rectly applied or 6-0-0 oc purlins, or 10-0-0 oc bracing.	
REACTIONS. (size Max G	e)					

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 1-9=0/271, 2-3=-488/0, 3-4=-488/0 8-9=0/585, 7-8=0/488, 6-7=0/473 TOP CHORD

BOT CHORD

2-9=-634/0, 4-6=-793/0 WEBS

NOTES-

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

2) 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.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

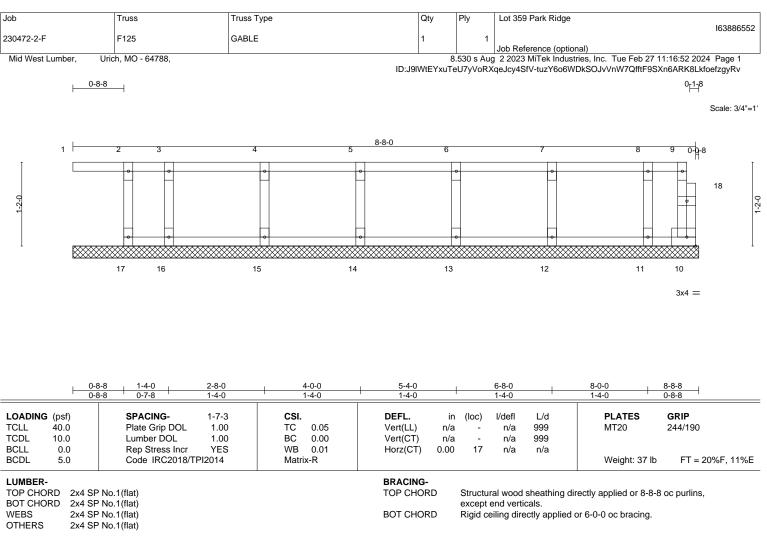
4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

5) CAUTION, Do not erect truss backwards.



 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 besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property 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 **ANS/TPH1 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)





REACTIONS. All bearings 8-8-8.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 10

Max Grav All reactions 250 lb or less at joint(s) 17, 1, 16, 15, 14, 13, 12, 11

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

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Gable requires continuous bottom chord bearing.

3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

4) Gable studs spaced at 1-4-0 oc.

5) N/A

6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.

7) 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.

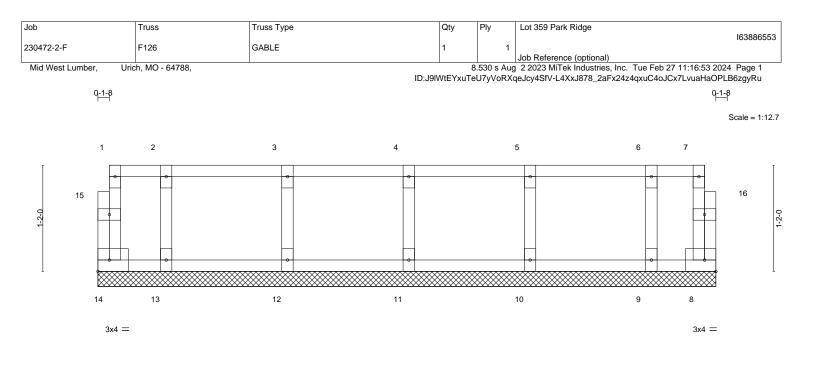
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

9) CAUTION, Do not erect truss backwards.







		0-9-0 0-9-0	2-1-0 1-4-0		3-5-0 1-4-0		4-9-0 1-4-0			6-1-0 1-4-0		-9-8 -8-8
LOADING (ps TCLL 40 TCDL 10	.ó	SPACING- Plate Grip DOL Lumber DOL	1-7-3 1.00 1.00	CSI. TC BC	0.05 0.00	DEFL. Vert(LL) Vert(CT)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 244/190
	.0 .0	Rep Stress Incr Code IRC2018/		WB Matrix	0.01	Horz(CT)	0.00	8	n/a	n/a	Weight: 32 lb	FT = 20%F, 11%E
						BBACING	_					

LUMBER-

 TOP CHORD
 2x4 SP No.1(flat)

 BOT CHORD
 2x4 SP No.1(flat)

 WEBS
 2x4 SP No.1(flat)

 OTHERS
 2x4 SP No.1(flat)

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. All bearings 6-9-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Gable requires continuous bottom chord bearing.

3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

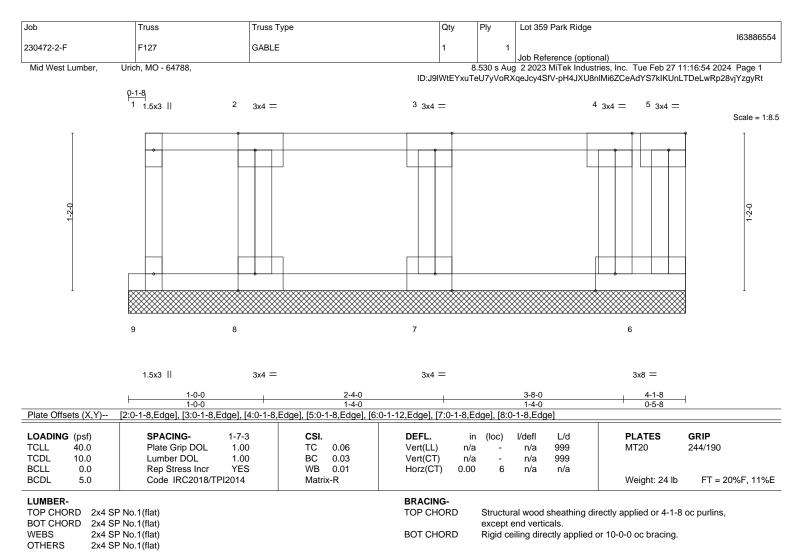
4) Gable studs spaced at 1-4-0 oc.

5) 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.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.







REACTIONS. All bearings 4-1-8

CTIONS. All bearings 4-1-8. (lb) - Max Grav All reactions 250 lb or less at joint(s) 6, 9, 8, 7

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

NOTES-

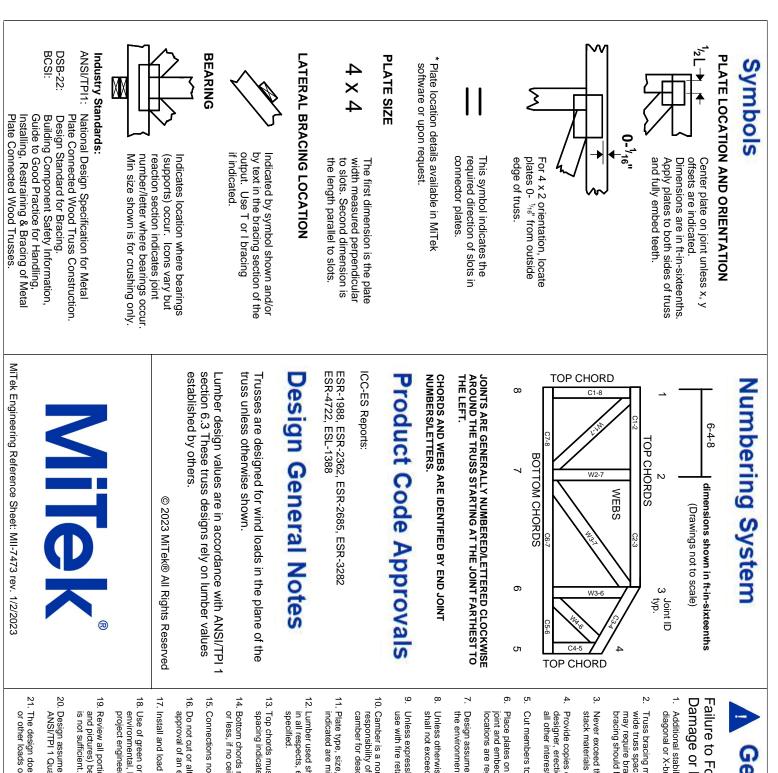
1) Gable requires continuous bottom chord bearing.

- 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 4) 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.







General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.