

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

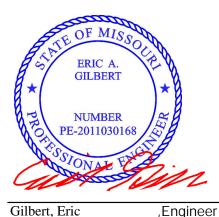
Re: 21-26876 290 PARK RIDGE

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Pioneer Industries, LLC.

Pages or sheets covered by this seal: I50438346 thru I50438355

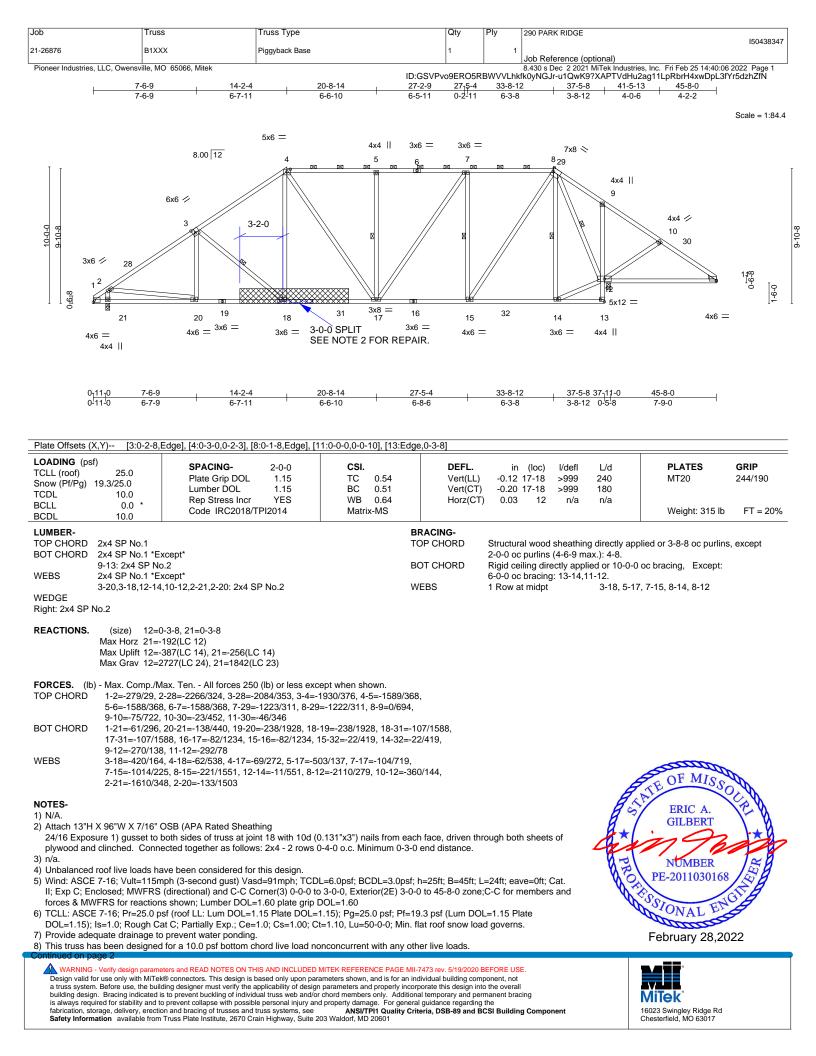
My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193



February 28,2022

**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 design barameters 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.



Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
04 00070	BAYYY	Disaster Bass			150438347
21-26876	B1XXX	Piggyback Base	1	1	Job Reference (optional)
Pioneer Industries, LLC, Owensville, MO 65066, Mitek					8.430 s Dec 2 2021 MiTek Industries, Inc. Fri Feb 25 14:40:06 2022 Page 2
			vo9ERO5R	BWVVLhk	fk0yNGJr-u1QwK9?XAPTVdHu2ag11LpRbrH4xwDpL3fYr5dzhZfN

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

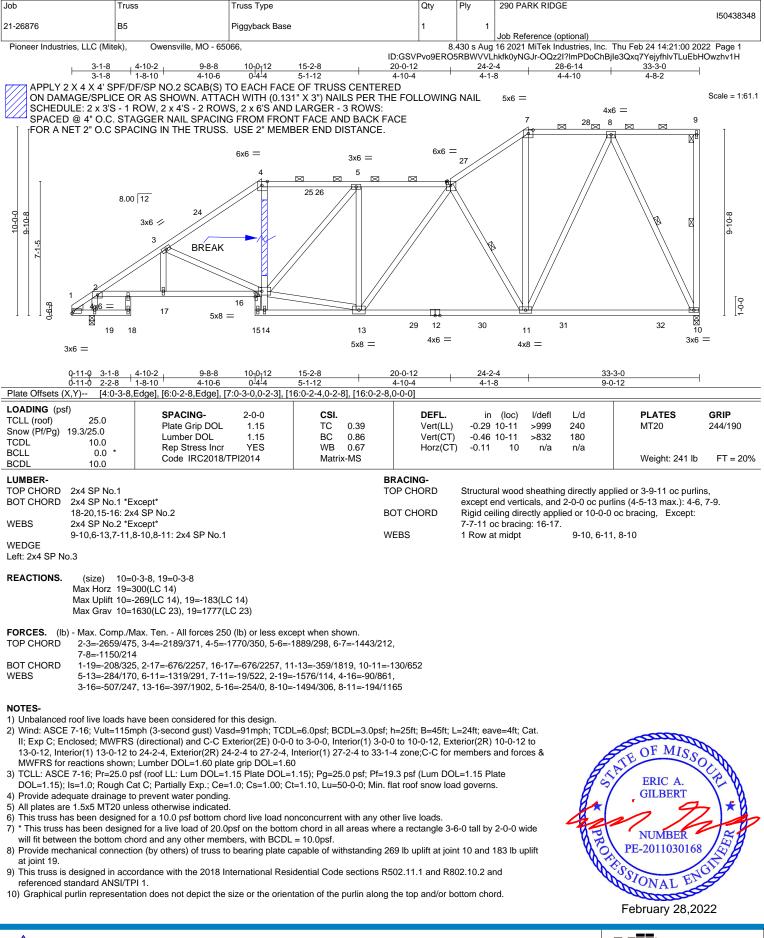
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 387 lb uplift at joint 12 and 256 lb uplift at joint 21.

11) 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.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not 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 **ANSUTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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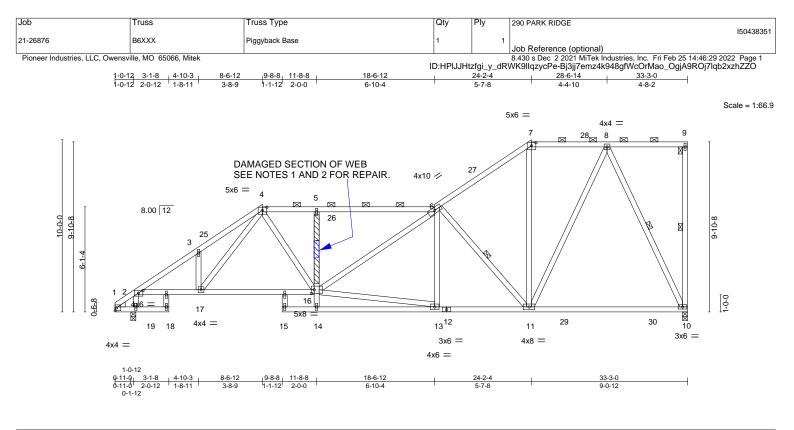


Plate Offsets (X,Y) [2:0-3-2,	0-1-14], [4:0-3-0,0-2-3], [7:0-3-0,0-2-3], [	16:0-2-0,0-2-8]						
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 19.3/25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	<b>CSI.</b> TC 0.79 BC 0.79 WB 0.66 Matrix-MS	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.34 10-11 -0.55 10-11 0.12 10	l/defl >999 >696 n/a	L/d 240 180 n/a	<b>PLATES</b> MT20 Weight: 248 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.1 *E BOT CHORD 2x4 SP No.1 *E 18-20,15-21: 2x WEBS 2x4 SP No.2 *E 9-10,6-16,7-11, WEDGE Left: 2x4 SP No.2	4 SP No.2	TC BC	RACING- DP CHORD DT CHORD EBS	except end vert	icals, and ectly appli- ng: 16-17 g: 11-13.	2-0-0 oc purli	lied or 3-9-1 oc purlins ins (2-11-15 max.): 4-6 oc bracing, Except: , 8-10	
Max Horz 19=: Max Uplift 10=- Max Grav 10=-	·267(LC 14), 19=-177(LC 14) 1618(LC 23), 19=1787(LC 23)							
TOP CHORD 2-3=-2688/45 6-26=-2387/3 BOT CHORD 1-19=-208/32 11-29=-128/6 WEBS 4-16=-79/998	Aax. Ten All forces 250 (lb) or less exc 1, 3-25=-2714/565, 4-25=-2652/587, 4-5 92, 6-27=-1445/178, 7-27=-1352/198, 7- 5, 2-17=-652/2268, 16-17=-488/1902, 12 41, 29-30=-128/641, 10-30=-128/641 13-16=-407/2137, 6-16=-134/253, 6-11 50, 8-10=-1466/302, 2-19=-1586/109, 5-	-2391/391, 5-26=-2389/ 28=-1132/214, 8-28=-113 2-13=-410/2209, 11-12=-4 =-1565/289, 7-11=0/469,	34/213 410/2209,					
<ol> <li>2) Replace damaged section cucentered on damage located end distance.</li> <li>3) N/A.</li> <li>4) Unbalanced roof live loads historic distance.</li> <li>4) Unbalanced roof live loads historic distance.</li> <li>5) Wind: ASCE 7-16; Vult=115n II; Exp C; Enclosed; MWFRS 11-8-8, Interior(1) 11-8-8 to 2 MWFRS for reactions shown 6) TCLL: ASCE 7-16; Pr=25.0 pp DOL=1.15); Is=1.0; Rough C</li> <li>7) Provide adequate drainage transport 8) All plates are 1.5x5 MT20 un</li> </ol>		erial. Apply 48" long 2x4 (0.131"x3") nails spaced L=6.0psf; BCDL=3.0psf; f to 3-0-0, Interior(1) 3-0-0 erior(1) 27-2-4 to 33-1-4 z 1.15); Pg=25.0 psf; Pf=19 L=1.10, Lu=50-0-0; Min. fl	2" o.c. from front n=25ft; B=45ft; L 0 to 8-6-12, Exte zone;C-C for mei 0.3 psf (Lum DOI at roof snow load	=24ft; eave=3ft; rior(2R) 8-6-12 to mbers and forces _=1.15 Plate	0-3-0 Cat.	To A BROEN	TE OF MISS ERIC A. GILBERT PE-2011030168 SSIONAL EN February 28,20	
Continued on page 2							<b>—</b>	

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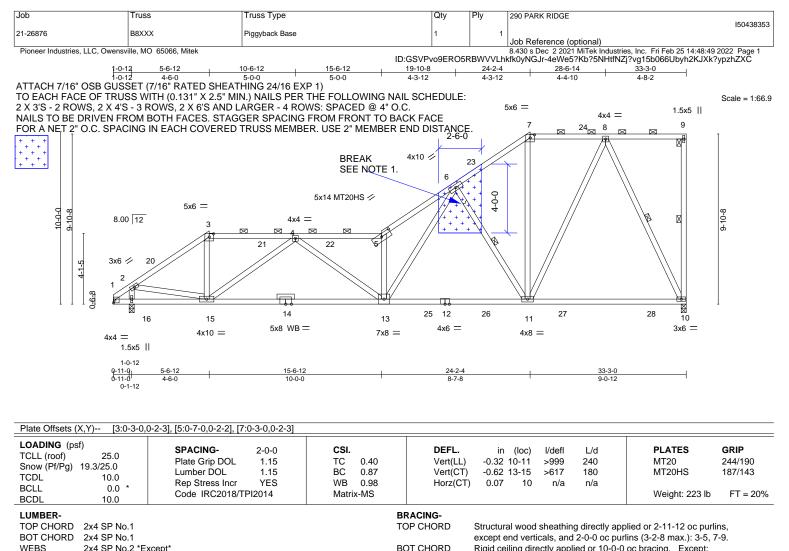
Ē	Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE	
	21-26876	B6XXX	Diamitraak Roop	1		150438351	
1	21-20070	BOAAA	Piggyback Base	1		Job Reference (optional)	
	Pioneer Industries, LLC, Owensville, MO 65066, Mitek 8430 s Dec 2 2021 MiTek Industries, Inc. Fri Feb 25 14:46:29 2022 Page 2						
					zfgi_y_dR\	WK9IIqzycPe-Bj3jj7emz4k948gfWcOrMao_OgjA9ROj7Iqb2xzhZZO	

- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 267 lb uplift at joint 10 and 177 lb uplift at joint 19.
- 12) 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.

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

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WEBS

	2x4 SP No.2 *Except* 9-10,7-11,8-11,8-10: 2x4 SP No.1
OTHERS	2x4 SP No.2

- REACTIONS. (size) 10=0-3-8, 16=0-3-8 Max Horz 16=300(LC 14) Max Uplift 10=-271(LC 14), 16=-195(LC 14) Max Grav 10=1641(LC 23), 16=1682(LC 23)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- 2-20=-2034/242, 3-20=-1956/261, 3-21=-1646/252, 4-21=-1647/252, 4-22=-3347/375, TOP CHORD 5-22=-3345/376, 5-6=-3993/504, 6-23=-1455/190, 7-23=-1377/216, 7-24=-1155/212, 8-24=-1156/212
- BOT CHORD 15-16=-375/268, 14-15=-580/2784, 13-14=-580/2784, 13-25=-365/1884, 12-25=-365/1884, 12-26=-365/1884, 11-26=-365/1884, 11-27=-130/656, 27-28=-130/656, 10-28=-130/656 WEBS 2-16=-1663/244, 2-15=-98/1558, 3-15=-36/821, 4-15=-1368/179, 4-13=0/760, 5-13=-2435/352, 6-13=-361/2716, 6-11=-1381/293, 7-11=-29/530, 8-11=-191/1169, 8-10=-1502/306

## NOTES-

- 1) Repair Condition: web has 0-1-0 long break centered at 1-0-8 below joint 6.
- 2) N/A
- 3) Unbalanced roof live loads have been considered for this design

4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-6-12, Exterior(2R) 5-6-12 to 8-6-12, Interior(1) 8-6-12 to 24-2-4, Exterior(2R) 24-2-4 to 27-2-4, Interior(1) 27-2-4 to 33-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 271 lb uplift at joint 10 and 195 lb uplift at joint 16.

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 available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

9-10. 6-11. 8-10

8-2-11 oc bracing: 13-15.

1 Row at midpt



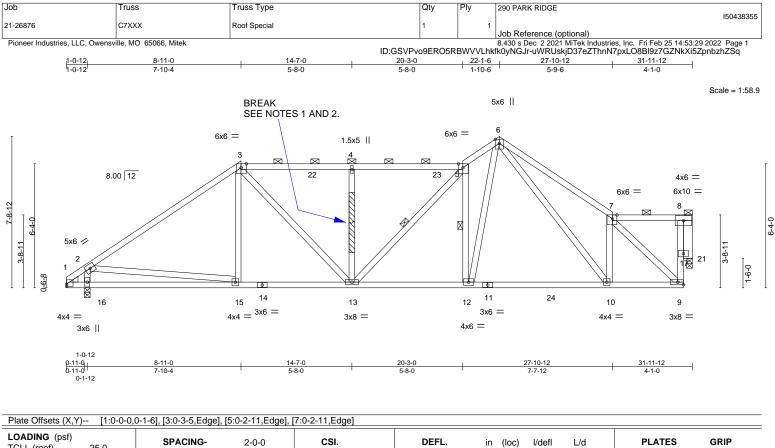
Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	B8XXX	Piggyback Base	1	1	150438353
21-20070	BOXXX	l iggyback base	1	· ·	Job Reference (optional)
Pioneer Industries, LLC, Ower				8.430 s Dec 2 2021 MiTek Industries, Inc. Fri Feb 25 14:48:49 2022 Page 2	
			ID:GSVPvo9ERO5F	RBWVVLhl	kfk0yNGJr-4eWe5?Kb?5NHtfNZj?vg15b066Ubyh2KJXk?ypzhZXČ

11) 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.

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

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LOADING         (psf)           TCLL (roof)         25.0           Snow (Pf/Pg)         19.3/25.0           TCDL         10.0           BCLL         0.0 *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.87 BC 0.54 WB 0.76 Matrix-MS	Vert(CT) -	in (loc) -0.16 10-12 -0.27 10-12 0.07 21	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 213 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.2 *E 6-10: 2x4 SP N OTHERS 2x6 SP No.1 WEDGE Left: 2x4 SP No.2		Ti Bi	2-0 OT CHORD Rig	ructural wood 0-0 oc purlins gid ceiling dire Row at midpt	(4-2-14 m	ax.): 3-5, 7-8	oc bracing.	als, and
REACTIONS. (size) 16=0-3-8, 21=0-3-8 Max Horz 16=-124(LC 12) Max Uplift 16=-226(LC 14), 21=-216(LC 14) Max Grav 16=1591(LC 24), 21=1427(LC 25)								
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       1-2=-445/91, 2-3=-1871/421, 3-22=-1866/505, 4-22=-1867/505, 4-23=-1868/505, 5-23=-1866/505, 5-6=-2128/579, 6-7=-1934/503, 9-17=-284/1351         BOT CHORD       1-16=-199/547, 15-16=-322/640, 14-15=-319/1506, 13-14=-319/1506, 12-13=-365/1791, 11-12=-262/1343, 11-24=-262/1343, 10-24=-262/1343, 9-10=-329/1511         WEBS       2-16=-1451/509, 2-15=-66/1017, 3-13=-125/678, 4-13=-470/167, 5-13=-57/272, 5-12=-1489/438, 6-12=-409/1824, 6-10=-102/365, 7-9=-1841/399, 8-21=-1465/322								
<ul> <li>NOTES- <ol> <li>Repair Condition: web has 0-1-0 long break centered at 2-8-8 below joint 4.</li> <li>Apply 37' long 2x4 SP No.2 scab to front side(s) of truss centered on damage located 2-8-8 below joint 4 with 2 row(s) of 10d (0.131*x3") nails spaced 2" o.c. from front face. Minimum 0-3-0 end distance.</li> <li>N/A.</li> <li>Unbalanced roof live loads have been considered for this design.</li> <li>Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. I; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 8-11-0, Corner(3R) 8-11-0 to 11-11-0, Exterior(2R) 22-1-6 to 25-1-6, Exterior(2N) 25-1-6 to 31-4-8 zone;C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.</li> <li>Provide adequate drainage to prevent water ponding.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.</li> </ol></li></ul>								
	eters and READ NOTES ON THIS AND INCLUDED	MITEK REFERENCE PAGE MII-	7473 rev. 5/19/2020 BEFO	DRE USE.				

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Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21 26976	C7XXX	Boof Special	1		150438355
21-26876	C/XXX	Roof Special	1	1	Job Reference (optional)
Pioneer Industries, LLC, Owensville, MO 65066, Mitek 8430 s Dec 2 2021 MiTek Industries, Inc. Fri Feb 25 14:53:29					
			ID:GSVPvo9ERO5R	BWVVLhk	fk0yNGJr-uWRUskjD37eZThnN7pxLO8Bl9z7GZNkXi5ZpnbzhZSq

- 10) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 226 lb uplift at joint 16 and 216 lb uplift at joint 21.
- 12) 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.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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