

RE: 210302 Lot 80 RR

# Site Information:

Customer: Project Name: 210302 Lot/Block: Address: City:

Model: Subdivision: State:



MiTek USA, Inc.



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

Design Code: IRC2018/TPI2014 Wind Code: N/A Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 64 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	144597100	A1	3/1/2021	21	144597120	E3	3/1/2021
2	144597101	A2	3/1/2021	22	l44597121	E4	3/1/2021
3	144597102	B1	3/1/2021	23	144597122	E5	3/1/2021
4	144597103	B2	3/1/2021	24	l44597123	E6	3/1/2021
5	144597104	B3	3/1/2021	25	144597124	E7	3/1/2021
6	144597105	B4	3/1/2021	26	l44597125	E8	3/1/2021
7	144597106	B5	3/1/2021	27	144597126	E9	3/1/2021
8	144597107	B6	3/1/2021	28	144597127	G1	3/1/2021
9	144597108	B7	3/1/2021	29	I44597128	G2	3/1/2021
10	144597109	B8	3/1/2021	30	l44597129	G3	3/1/2021
11	144597110	B9	3/1/2021	31	144597130	G4	3/1/2021
12	144597111	C1	3/1/2021	32	l44597131	G5	3/1/2021
13	144597112	C2	3/1/2021	33	I44597132	J1	3/1/2021
14	144597113	D1	3/1/2021	34	144597133	J2	3/1/2021
15	144597114	D2	3/1/2021	35	144597134	J3	3/1/2021
16	144597115	D3	3/1/2021	36	144597135	J4A	3/1/2021
17	144597116	D4	3/1/2021	37	I44597136	J5A	3/1/2021
18	144597117	D5	3/1/2021	38	l44597137	J8	3/1/2021
19	144597118	E1	3/1/2021	39	l44597138	J9	3/1/2021
20	I44597119	E2	3/1/2021	40	I44597139	J10	3/1/2021

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Kansas is April 30, 2022.

Kansas COA: E-943

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



Garcia, Juan



RE: 210302 - Lot 80 RR

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

# Site Information:

Lot/B Addr	Block:	Project Name: 21	0302	
No.	Seal#	Truss Name	Date	
41	144597140	J11	3/1/2021	
10	144507141	110	2/1/2021	

INO.	Seal#	Truss Marine	Dale
41	144597140	J11	3/1/2021
42	144597141	J12	3/1/2021
43	144597142	J13	3/1/2021
44	144597143	J14	3/1/2021
45	144597144	J14A	3/1/2021
46	144597145	J15A	3/1/2021
47	144597146	J16	3/1/2021
48	144597147	J17A	3/1/2021
49	144597148	J18	3/1/2021
50	144597149	J19	3/1/2021
51	144597150	J20	3/1/2021
52	144597151	J21	3/1/2021
53	144597152	J22	3/1/2021
54	144597153	J23	3/1/2021
55	144597154	J24	3/1/2021
56	144597155	J25	3/1/2021
57	144597156	J26	3/1/2021
58	144597157	J27	3/1/2021
59	144597158	LAY2	3/1/2021
60	144597159	LAY3	3/1/2021
61	144597160	LAY4	3/1/2021
62	144597161	V1	3/1/2021
63	144597162	V2	3/1/2021
64	144597163	V3	3/1/2021

State:

Subdivision:



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Design Code: IRC2018/TPI2014 Wind Code: N/A Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

MiTek USA, Inc.

314-434-1200

16023 Swingley Ridge Rd Chesterfield, MO 63017

This package includes 64 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
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14	144597113	D1	3/1/2021	34	l44597133	J2	3/1/2021
15	144597114	D2	3/1/2021	35	144597134	J3	3/1/2021
16	144597115	D3	3/1/2021	36	l44597135	J4A	3/1/2021
17	144597116	D4	3/1/2021	37	l44597136	J5A	3/1/2021
18	144597117	D5	3/1/2021	38	l44597137	J8	3/1/2021
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20	144597119	E2	3/1/2021	40	144597139	J10	3/1/2021

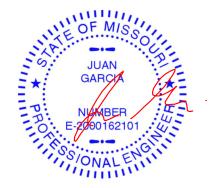
The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Missouri is December 31, 2022. Missouri COA: 001193

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



Garcia, Juan

# March 01, 2021



RE: 210302 - Lot 80 RR

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

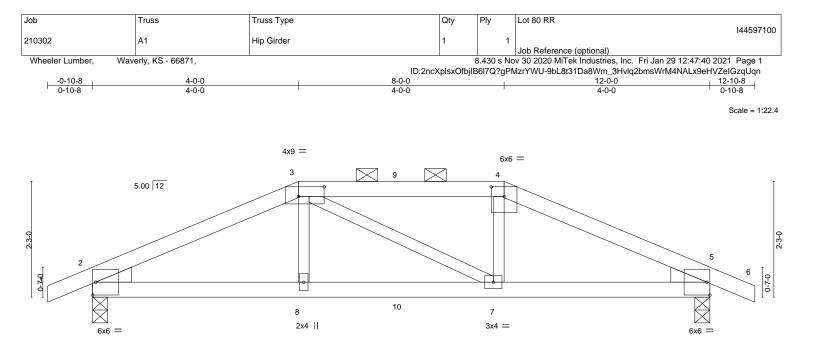
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45	144597144	J14A	3/1/2021
46	144597145	J15A	3/1/2021
47	144597146	J16	3/1/2021
48	144597147	J17A	3/1/2021
49	144597148	J18	3/1/2021
50	144597149	J19	3/1/2021
51	144597150	J20	3/1/2021
52	144597151	J21	3/1/2021
53	144597152	J22	3/1/2021
54	144597153	J23	3/1/2021
55	144597154	J24	3/1/2021
56	144597155	J25	3/1/2021
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62	144597161	V1	3/1/2021
63	144597162	V2	3/1/2021
64	144597163	V3	3/1/2021

State:

Subdivision:



<b> </b>	4-0-0		8-0-0			12-0-0		
Plate Offsets (X,Y)	4-0-0 [3:0-6-0,0-2-4], [4:0-3-0,0-2-4]		4-0-0			4-0-0		
LOADING         (psf)           TCLL         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 NO Code IRC2018/TPI2014	CSI. TC 0.49 BC 0.57 WB 0.11 Matrix-S	<b>DEFL.</b> Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0 Wind(LL) 0.0	77-8 35	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 38 lb	<b>GRIP</b> 197/144 FT = 10%	
BOT CHORD 2x4 SF	PF No.2		BRACING- TOP CHORD BOT CHORD	2-0-0 oc	purlins (4-7-5 max.):	rectly applied or 4-6-6 3-4. or 10-0-0 oc bracing.	oc purlins, except	
REACTIONS.       (size)       2=0-3-8, 5=0-3-8 Max Horz       2=36(LC 29) Max Uplift 2=-205(LC 8), 5=-205(LC 9) Max Grav       2=899(LC 1), 5=-205(LC 9) Max Grav       0       FMIS       0         FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.       0       FMIS       0         TOP CHORD       2-3=-1527/360, 3-4=-1326/339, 4-5=-1528/359 BOT CHORD       2-8=-288/1309, 7-8=-288/1325, 5-7=-284/1310       JUAN								
<ul> <li>WEBS 3-8=-2/316, 4-7=-11/327</li> <li>NOTES- <ol> <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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60</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 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> </ol> </li> </ul>								
<ul> <li>6) Provide mechanical 2=205, 5=205.</li> <li>7) This truss is design referenced standarc</li> <li>8) Graphical purlin rep</li> <li>9) Hanger(s) or other of 4-0-0, and 85 lb dow 4-0-0, and 36 lb dow device(s) is the resp</li> </ul>	<ul> <li>5) * 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.</li> <li>6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)</li> </ul>							

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

## Continued on page 2



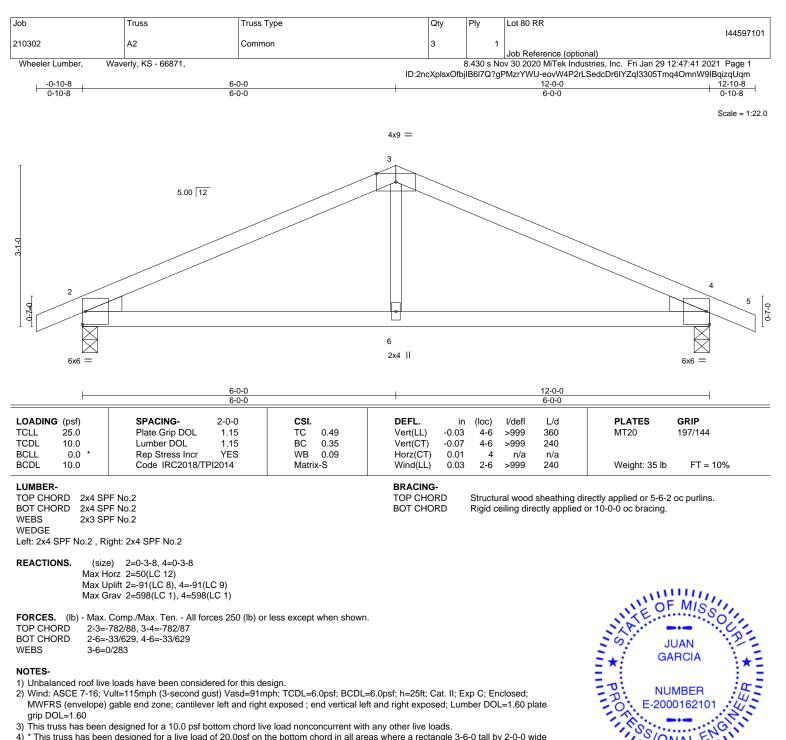
Job	Truss	Truss Type	Qty	Ply	Lot 80 RR
					144597100
210302	A1	Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber,         Waverly, KS - 66871,         8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 29 12:47:40 2021 Page 2					

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-9bL8t31Da8Wm\_3Hvlq2bmsWrM4NALx9eHVZeIGzqUqn

LOAD CASE(S) Standard Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 2-5=-20 Concentrated Loads (lb) Vert: 3=-53(F) 4=-53(F) 8=-212(F) 7=-212(F) 9=-53(F) 10=-18(F)





## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

\* 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 4) will fit between the bottom chord and any other members.

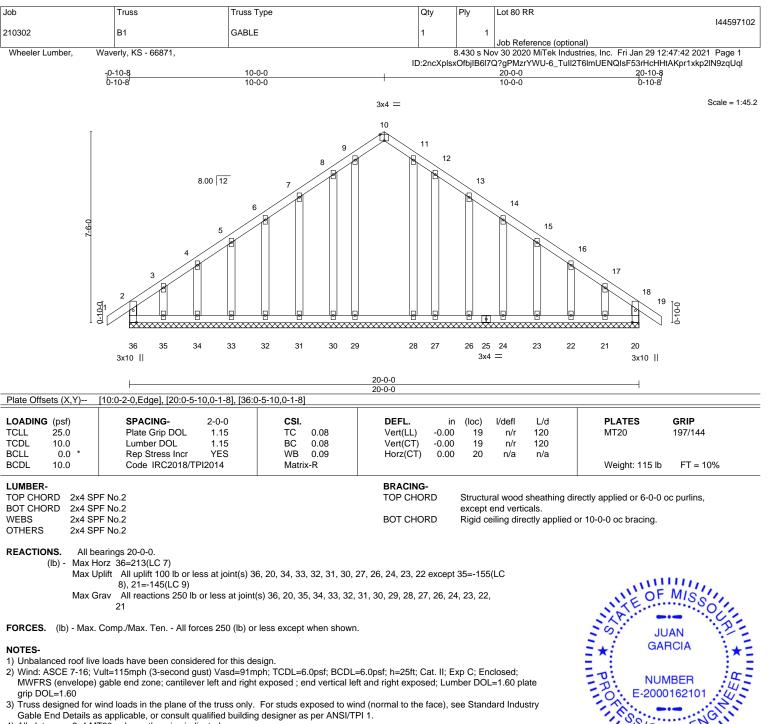
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

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



NUMBER

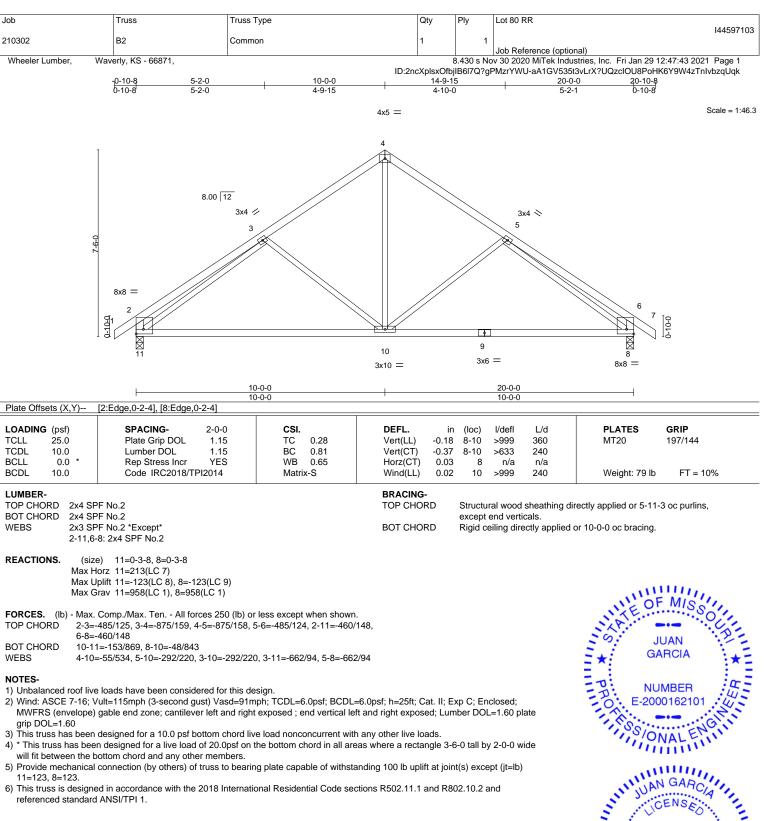
**MiTek** 16023 Swingley Ridge Rd Chesterfield, MO 63017



- MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 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 100 lb uplift at joint(s) 36, 20, 34, 33, 32, 31, 30, 27, 26, 24, 23, 22 except (jt=lb) 35=155, 21=145.
- 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/TPL1



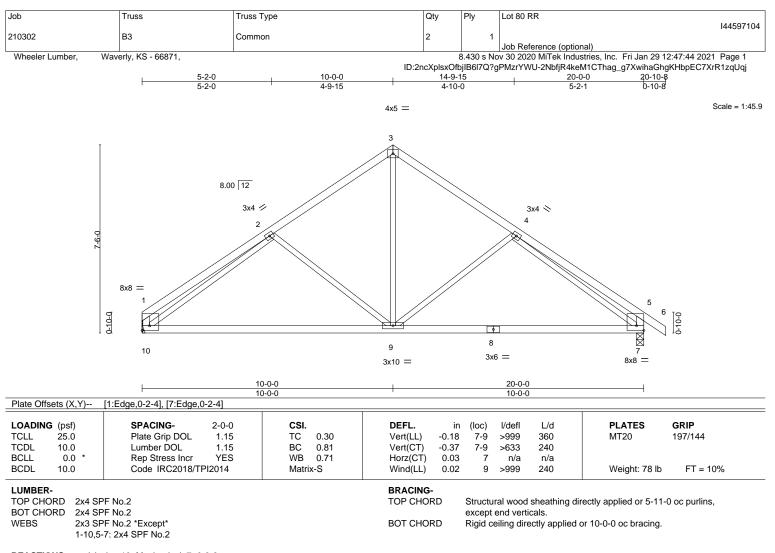






E USE.

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



REACTIONS. (size) 10=Mechanical, 7=0-3-8 Max Horz 10=-207(LC 6) Max Uplift 10=-100(LC 8), 7=-123(LC 9) Max Grav 10=885(LC 1), 7=960(LC 1)

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

- TOP CHORD 1-2=-431/79, 2-3=-879/159, 3-4=-877/159, 4-5=-485/124, 1-10=-348/94, 5-7=-460/148
- BOT CHORD 9-10=-156/879, 7-9=-48/846
- WEBS 3-9=-57/541, 4-9=-292/220, 2-9=-302/224, 2-10=-724/125, 4-7=-665/94

#### NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

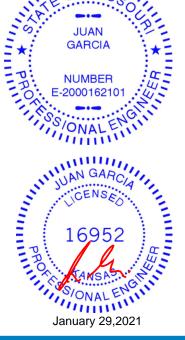
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) \* 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.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 7=123.

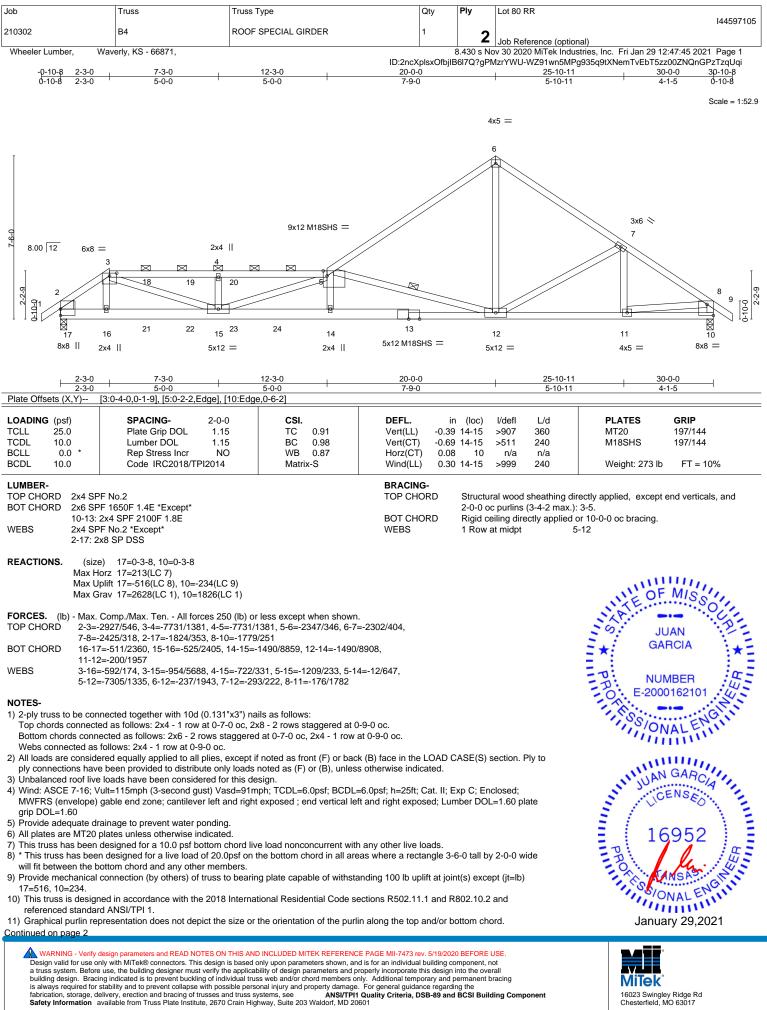
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



FMIS

0





Job	Truss	Truss Type	Qty	Ply	Lot 80 RR
					144597105
210302	B4	ROOF SPECIAL GIRDER	1	2	
				2	Job Reference (optional)
Wheeler Lumber, W	averly, KS - 66871,			8.430 s No	v 30 2020 MiTek Industries, Inc. Fri Jan 29 12:47:45 2021 Page 2
		ID:2nc)	XplsxOfbjlE	36l7Q?gPN	IzrYWU-WZ91wn5MPg935q9tXNemTvEbT5zz00ZNQnGPzTzqUqi

## NOTES-

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 158 lb down and 98 lb up at 3-11-4, and 158 lb down and 98 lb up at 5-11-4, and 158 lb down and 98 lb up at 7-11-4 on top chord, and 199 lb down and 86 lb up at 2-3-0, 66 lb down at 3-11-4, 66 lb down at 5-11-4, and 66 lb down at 7-11-4, and 1017 lb down and 175 lb up at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

## LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

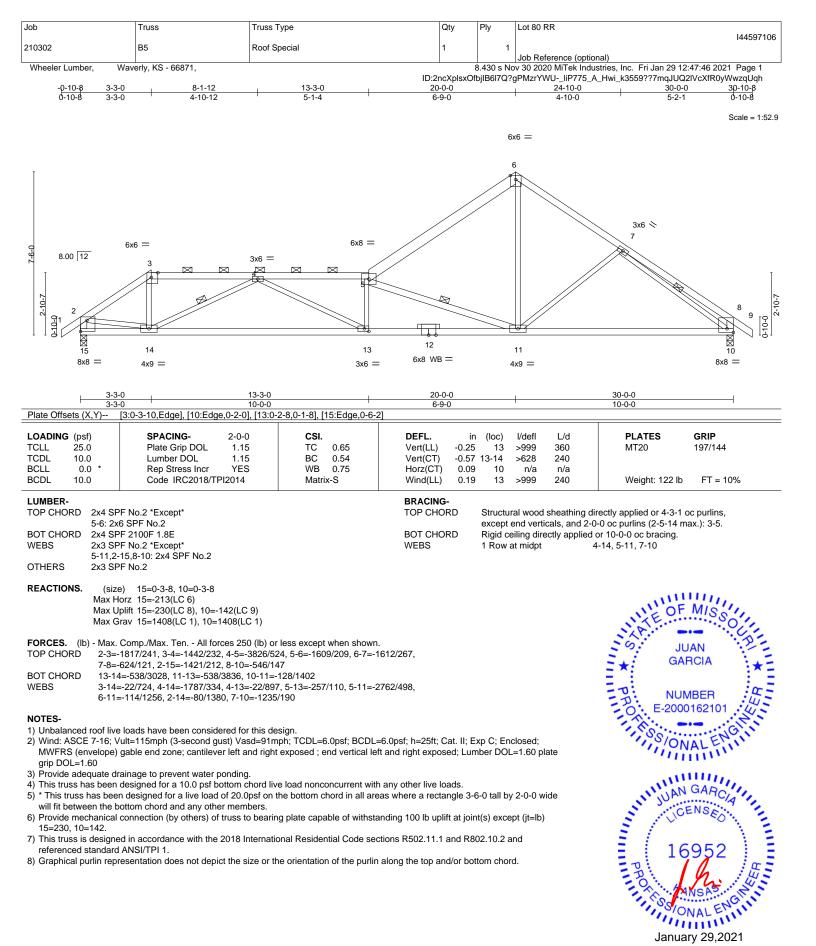
Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-8=-70, 8-9=-70, 10-17=-20

Concentrated Loads (lb)

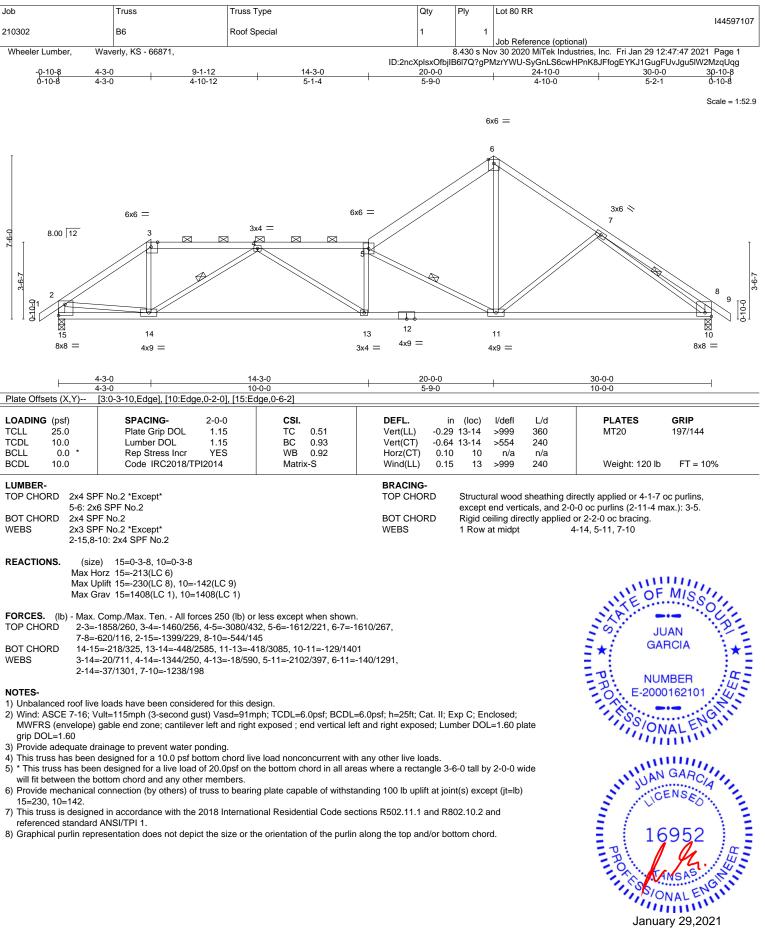
Vert: 16=-199(F) 18=-108(F) 19=-108(F) 20=-108(F) 21=-33(F) 22=-33(F) 23=-33(F) 24=-1017(F)







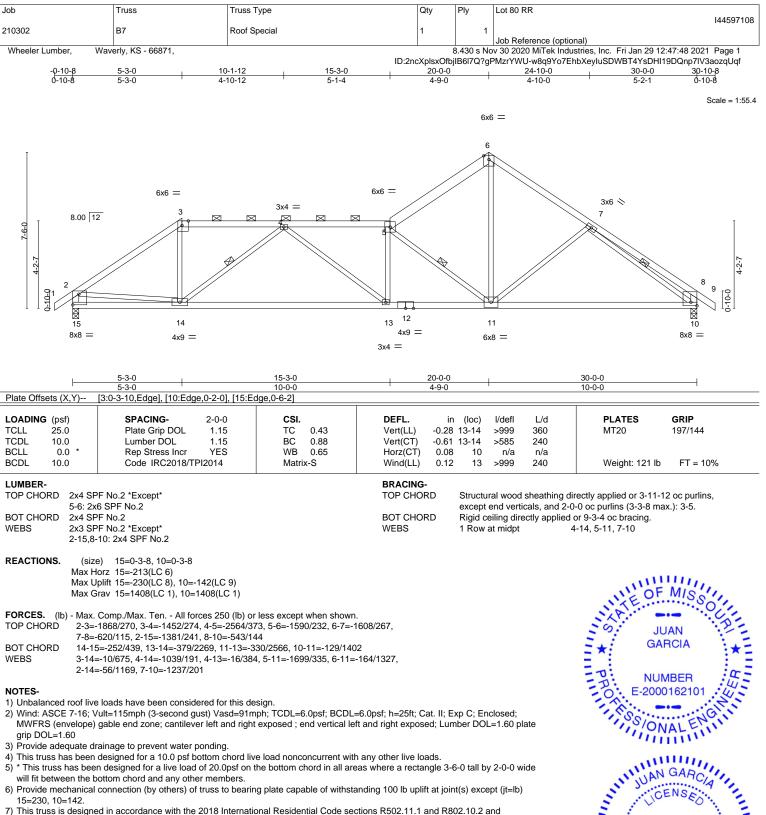




8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

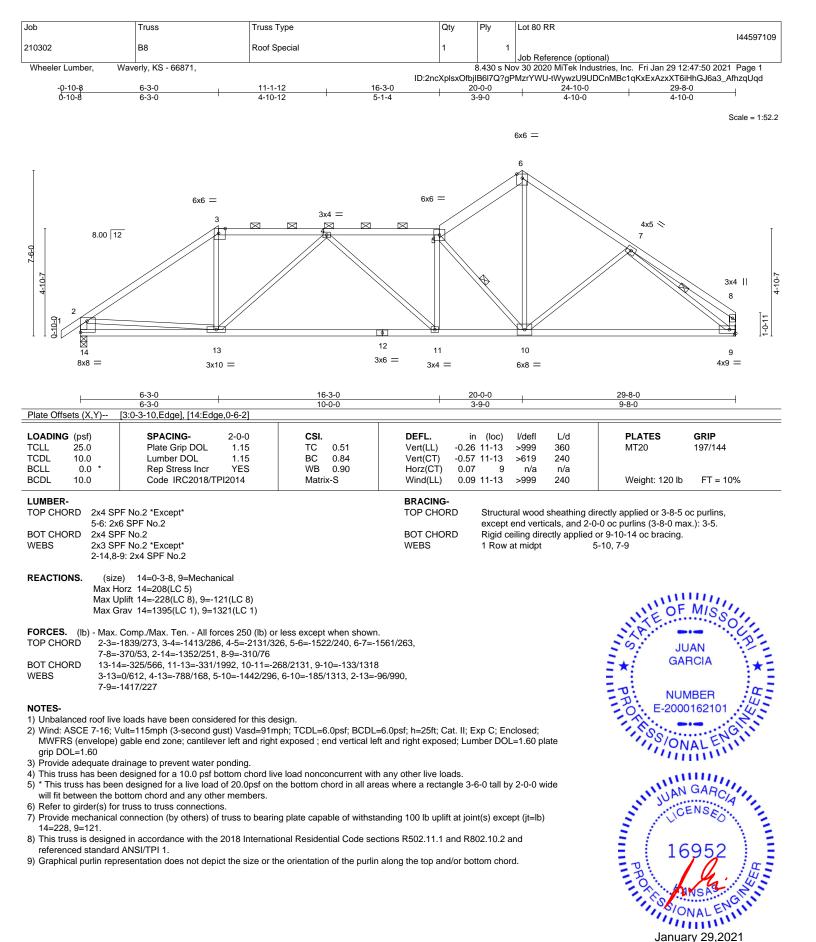


MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

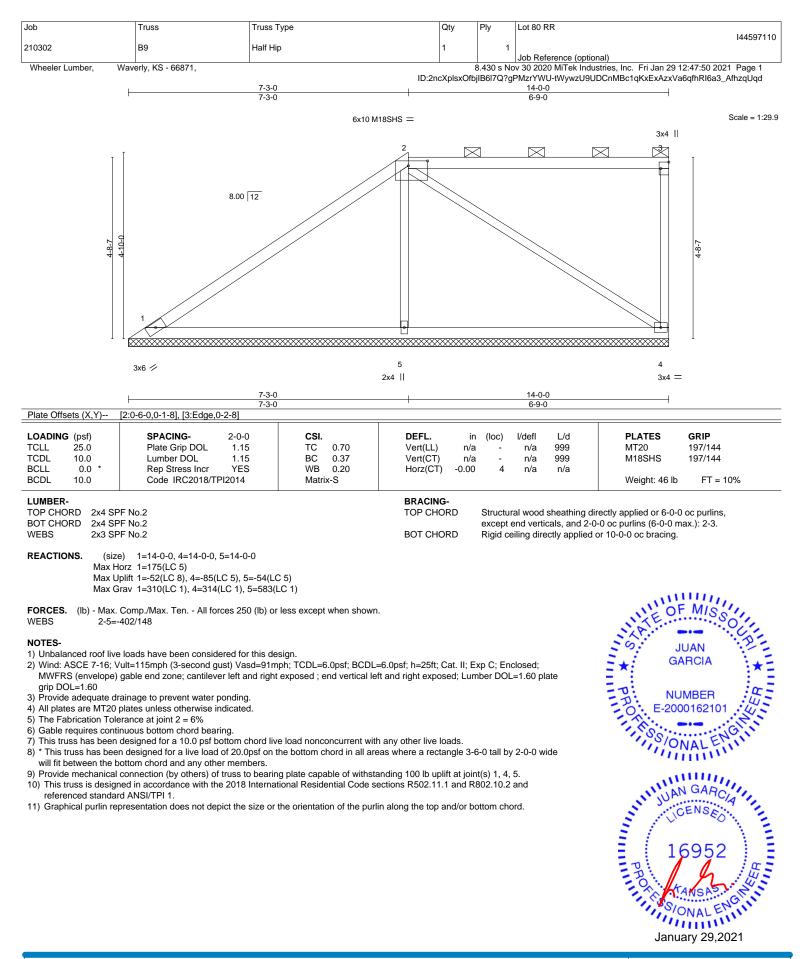


referenced standard ANSI/TPI 1. 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 16952 January 29,2021

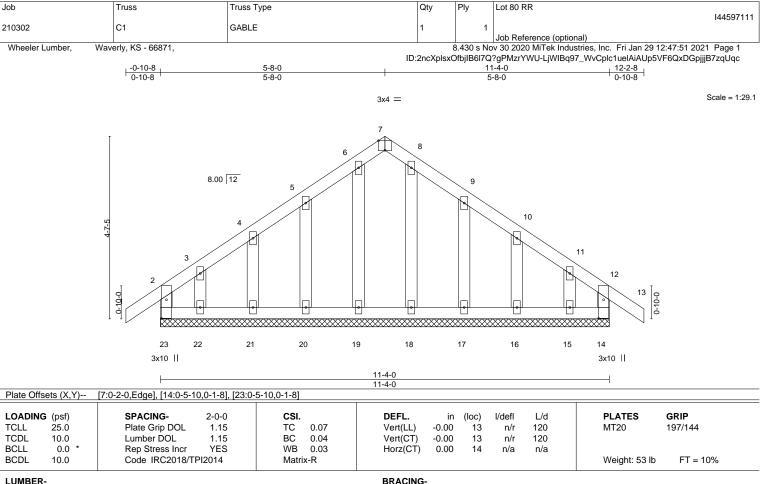
> 16023 Swingley Ridge Rd Chesterfield, MO 63017



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LUN	/IBE	R-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 11-4-0.

Max Horz 23=-137(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 23, 14, 22, 21, 20, 17, 16, 15 Max Grav All reactions 250 lb or less at joint(s) 23, 14, 22, 21, 20, 19, 18, 17, 16, 15

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

#### NOTES-

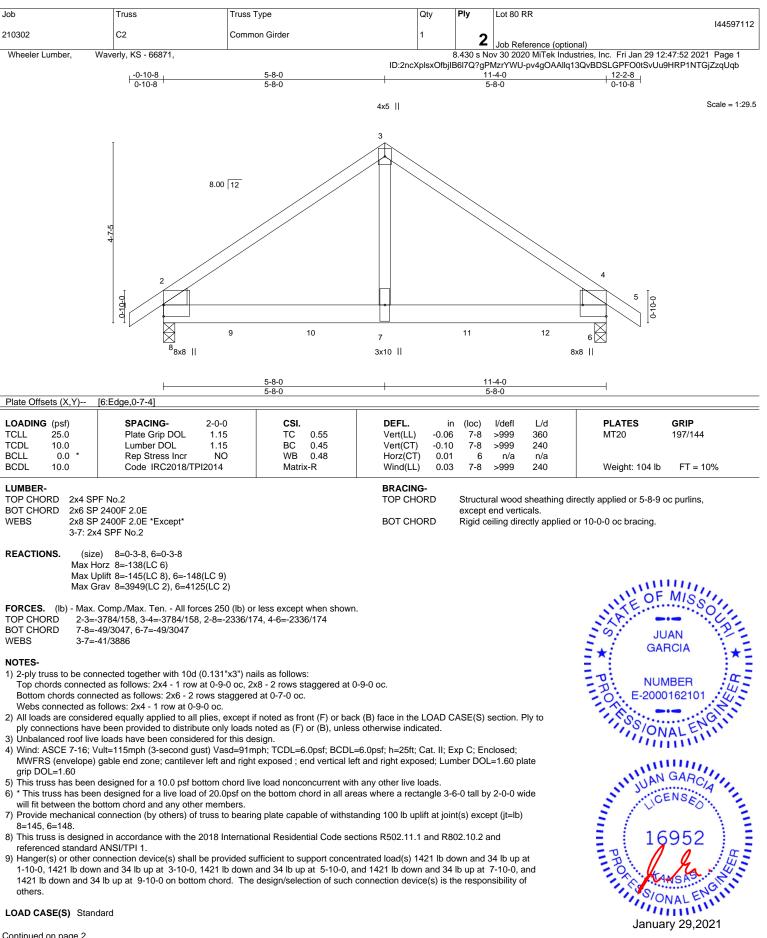
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) 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.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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 9) will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 14, 22, 21, 20, 17, 16, 15,
- 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.



11111

January 29,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

## Continued on page 2

	Job	Truss	Truss Type	Qty	Ply	Lot 80 RR
						I44597112
	210302	C2	Common Girder	1	2	
					2	Job Reference (optional)
Wheeler Lumber, Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 29					v 30 2020 MiTek Industries, Inc. Fri Jan 29 12:47:53 2021 Page 2	

ID:2ncXplsxOfbjIB6I7Q?gPMzrYWU-H5e2bWBNW79w23mP?3nenbZ2CJq7ujhZG1CqG0zqUqa

LOAD CASE(S) Standard

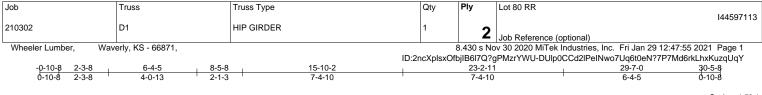
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 6-8=-20

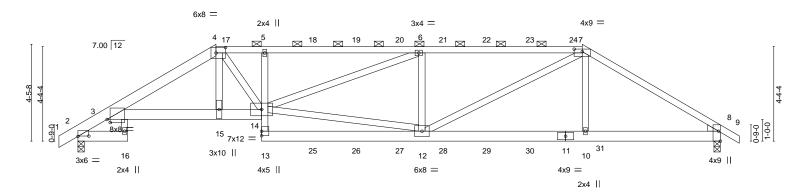
Concentrated Loads (lb)

Vert: 7=-1373(B) 9=-1373(B) 10=-1373(B) 11=-1373(B) 12=-1373(B)





Scale = 1:53.1



	2-3-8	6-4-5	0 5 0	15-10-2		23-2-11		29-7-0	
	2-3-8	4-0-13	8-5-8 2-1-3	7-4-10		7-4-10		6-4-5	
Plate Offs	ets (X,Y)			5-4,0-3-0], [7:0-4-8,0-1-7],	[8:Edge,0-0-15]				
	· · ·	SPACING-	2-0-0	CSI.	DEFL.	( )	lefl L/d	PLATES	GRIP
TCLL TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC 0.59 BC 0.86			99 360 99 240	MT20	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.48			n/a n/a		
BCDL	10.0	Code IRC2018/1		Matrix-S			99 240	Weight: 299 lb	FT = 10%
LUMBER TOP CHO BOT CHO WEBS WEDGE Right: 2x4 REACTIO	- ORD 2x6 S 4-7: 2 ORD 2x6 S 5-13: 2x4 S SPF No.2 ONS. (si Max Max Max Max Max Max Max Max	P DSS *Except* x4 SPF 2100F 1.8E, 7-9: PF No.2 *Except* 2x4 SPF No.2 PF No.2 ze) 2=0-3-8, 8=0-3-8 Horz 2=112(LC 7) Uplift 2=-477(LC 8), 8=-4 Grav 2=2363(LC 1), 8=23 c. Comp./Max. Ten All fc =-1493/334, 3-4=-4908/10 =-3918/731 5=-990/4315, 14-15=-100: 5=-254/1074, 4-14=-281/1 2=-418/1831, 7-10=-57/63	2x4 SPF No.2 46(LC 9) 366(LC 1) orces 250 (lb) o 70, 4-5=-4952/ 2/4368, 5-14=-5 071, 12-14=-79	r less except when shown 1087, 5-6=-4958/1095, 6- 335/269, 12-13=-118/808,	BRACING- TOP CHORD BOT CHORD 7=-4701/906, 10-12=-547/3168,	Structural except 2-0-0 oc pu Rigid ceilir	wood sheathing di urlins (6-0-0 max.)	irectly applied or 5-11-9 ): 4-7. or 10-0-0 oc bracing, 1 OF	oc purlins,
Top ch Bottom Webs C 2) All load ply con 3) Unbala 4) Wind: A MWFR grip DC 5) Provide 6) This tru 7) * This t will fit b 8) Provide 2=477, 9) This tru referen	uss to be co ords connected chords cor connected a ls are consis inced roof li ASCE 7-16; S (envelope DL=1.60 e adequate uss has bee russ has bee russ has bee enchanica 8=446. uss is design ced standa	ennected together with 100 ted as follows: 2x6 - 2 ro nected as follows: 2x6 - 2 ro nected as follows: 2x6 - 2 s follows: 2x4 - 1 row at 0 dered equally applied to a ve been provided to distri- ve loads have been consii Vult=115mph (3-second q e) gable end zone; cantilev drainage to prevent water in designed for a 10.0 psf en designed for a live load bottom chord and any oth al connection (by others) co- ned in accordance with the d ANSI/TPI 1.	d (0.131"x3") na ws staggered at rows staggered -9-0 oc. Il plies, except i bute only loads dered for this de yust) Vasd=91n ver left and righ ponding. bottom chord lin d of 20.0psf on her members. If truss to bearin a 2018 Internati	: 0-9-0 oc, 2x4 - 1 row at ( d at 0-9-0 oc, 2x4 - 1 row f noted as front (F) or bac noted as (F) or (B), unles asign. nph; TCDL=6.0psf; BCDL t exposed ; end vertical le ve load nonconcurrent with the bottom chord in all are ng plate capable of withsta	at 0-9-0 oc. (B) face in the LOA s otherwise indicated a const; h=25ft; Cat. ft and right exposed; h any other live loads as where a rectangle anding 100 lb uplift at ctions R502.11.1 and	d. II; Exp C; Enclos Lumber DOL=1 s. e 3-6-0 tall by 2- t joint(s) except ( d R802.10.2 and	60 plate 0-0 wide	PROCESSIO	GARCIA 952 NALENO
Desig a trus buildi is alw fabric	on valid for use as system. Befor ing design. Bra vays required for cation, storage,	v design parameters and READ N only with MiTek® connectors. Ti re use, the building designer mu cing indicated is to prevent buck restability and to prevent collaps delivery, erection and bracing of available from Truss Plate Insti	nis design is based st verify the applica ling of individual tru with possible pers trusses and truss s	only upon parameters shown, ar bility of design parameters and p ss web and/or chord members o onal injury and property damage ystems, see <b>ANSI/TPI</b>	nd is for an individual buildi properly incorporate this de nly. Additional temporary e. For general guidance re 1 Quality Criteria, DSB-89	ng component, not sign into the overall and permanent braci garding the	ng	Nitek 16023 Swingle Chesterfield, M	y Ridge Rd IO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 80 RR
					144597113
210302	D1	HIP GIRDER	1	2	
				<b>_</b>	Job Reference (optional)
Wheeler Lumber, Waverly, KS - 66871,					v 30 2020 MiTek Industries, Inc. Fri Jan 29 12:47:55 2021 Page 2

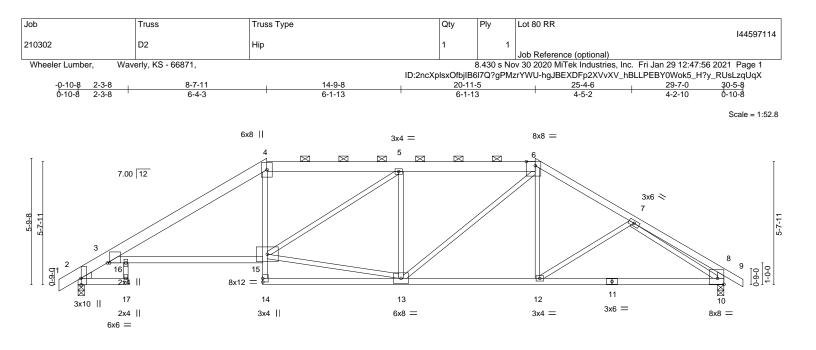
## NOTES-

- ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-DUlp0CCd2lPeINwo7Uq6t0eN?7P7Md6rkLhxKuzqUqY
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 122 lb down and 99 lb up at 6-9-7, 125 lb down and 77 lb up at 8-9-7, 125 lb down and 77 lb up at 10-9-7, 125 lb down and 77 lb up at 12-9-7, 125 lb down and 77 lb up at 14-9-7, 125 lb down and 77 lb up at 18-9-8, and 125 lb down and 77 lb up at 20-9-8, and 120 lb down and 77 lb up at 22-9-8 on top chord, and 351 lb down and 184 lb up at 6-4-5, 53 lb down and 28 lb up at 6-9-7, 60 lb down at 8-7-4, 60 lb down at 10-9-7, 60 lb down at 12-9-7, 60 lb down at 12-9-8, 60 lb down at 10-9-8, 60 lb down at 20-9-8, and 60 lb down at 22-9-8, and 357 lb down and 168 lb up at 23-2-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

## LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
  - Vert: 1-4=-70, 4-7=-70, 7-9=-70, 2-16=-20, 3-14=-20, 8-13=-20
- Concentrated Loads (lb) Vert: 14=-45(F) 5=-93(F) 15=-395(F) 10=-357(F) 17=-73(F) 18=-93(F) 19=-93(F) 20=-93(F) 21=-93(F) 22=-93(F) 23=-93(F) 24=-93(F) 25=-45(F) 26=-45(F) 26=-4
  - 27=-45(F) 28=-45(F) 29=-45(F) 30=-45(F) 31=-45(F)

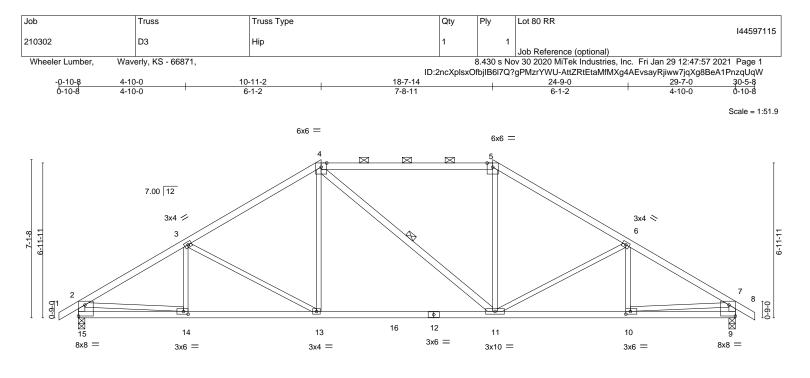




2-3-8	8-5-8	14-9-8	20-11-5	29-7-0	
2-3-8	6-2-0	6-4-0	6-1-13	8-7-11	
Plate Offsets (X,Y)	[2:0-3-8,Edge], [3:0-1-4,0-0-0], [6:0-4-1	5,Edge], [10:Edge,0-3-4]			
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.64 BC 0.65 WB 0.87 Matrix-S	Vert(LL) -0.27 15-16 > Vert(CT) -0.53 15-16 > Horz(CT) 0.30 10	I/defl         L/d         PLATES           >999         360         MT20           >664         240            n/a         n/a            >999         240         Weight: 1	GRIP 197/144 35 lb FT = 10%
4-6: 2x4 BOT CHORD 2x4 SP 3-15: 2: WEBS 2x3 SP	DSS *Except* 6 SPF No.2, 6-9: 2x4 SPF No.2 F No.2 *Except* x4 SPF 2100F 1.8E, 4-14: 2x3 SPF No F No.2 *Except* x4 SPF No.2	2	except er	I wood sheathing directly applied or 3 nd verticals, and 2-0-0 oc purlins (5-0 ing directly applied or 10-0-0 oc brac	)-1 max.): 4-6.
Left: 2x4 SPF No.2 <b>REACTIONS.</b> (size Max Hu Max U Max G <b>FORCES.</b> (lb) - Max. TOP CHORD - 2-3=- 7-8=- BOT CHORD - 3-16=	e) 2=0-3-8, 10=0-3-8 orz 2=156(LC 7) plift 2=-131(LC 8), 10=-131(LC 9) rav 2=1390(LC 1), 10=1390(LC 1) Comp./Max. Ten All forces 250 (lb) o 876/97, 3-4=-2344/196, 4-5=-1981/207 552/61, 8-10=-468/99 -227/2017, 15-16=-228/2021, 4-15=-28 =-191/1891, 5-13=-579/232, 6-13=-184	, 5-6=-1875/177, 6-7=-180 3/563, 12-13=-51/1508, 10	08/142, )-12=-95/1579	HIAT PR	OF MISSOURIES
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dr. 4) This truss has been 5) * This truss has been will fit between the bu 6) Provide mechanical 2=131, 10=131.	loads have been considered for this de ult=115mph (3-second gust) Vasd=91n gable end zone; cantilever left and righ ainage to prevent water ponding. designed for a 10.0 psf bottom chord lin n designed for a live load of 20.0psf on ottom chord and any other members. connection (by others) of truss to bearing	esign. hph; TCDL=6.0psf; BCDL= t exposed ; end vertical le ve load nonconcurrent with the bottom chord in all are ng plate capable of withsta	=6.0psf; h=25ft; Cat. II; Exp C; Enclo ft and right exposed; Lumber DOL= n any other live loads. eas where a rectangle 3-6-0 tall by 2 anding 100 lb uplift at joint(s) except	osed; 1.60 plate 2-0-0 wide t (jt=lb)	ONAL ENGINE
referenced standard	d in accordance with the 2018 Internati ANSI/TPI 1. resentation does not depict the size or t			PROFIL	16952 MANSAS SYONAL ENGINE

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16023 Swingley Ridge Rd Chesterfield, MO 63017



1	4-10-0	10-11-2	I	18-7-14	1	24-9-0	29-7	-0
	4-10-0	6-1-2	I	7-8-11	1	6-1-2	4-10	-0
Plate Offsets (X,Y)	) [9:Edge,0-6-0], [10:0-3	2-8,0-1-8], [14:0-2	-8,0-1-8], [15:Edge,0-6-0]					
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Inc Code IRC2018	1.15 r YES	<b>CSI.</b> TC 0.69 BC 0.73 WB 0.48 Matrix-S	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.16 11-13 -0.29 11-13 0.06 9 0.05 13-14	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 120 lb	<b>GRIP</b> 197/144 FT = 10%
4-5 BOT CHORD 2x WEBS 2x	4 SPF No.2 *Except* 5: 2x4 SPF 2100F 1.8E 4 SPF No.2 3 SPF No.2 *Except* 11,2-15,7-9: 2x4 SPF No.2			BRACING- TOP CHOR BOT CHOR WEBS	except D Rigid d	end verticals, and 2-	directly applied or 3-9-13 -0-0 oc purlins (4-10-14 d or 10-0-0 oc bracing. 4-11	· · · ·
M M FORCES. (lb) - M	(size) 15=0-3-8, 9=0-3-4 ax Horz 15=198(LC 7) ax Uplift 15=-153(LC 8), 9: ax Grav 15=1443(LC 2), 9 Max. Comp./Max. Ten All 2-3=-2063/199, 3-4=-1774/	=-153(LC 9) =1435(LC 2) forces 250 (lb) or					ALL ALL OF	MISSOL
BOT CHORD 1 WEBS 3	2-15=-1352/177, 7-9=-1345 14-15=-174/476, 13-14=-2( 3-13=-409/190, 4-13=-3/50 7-10=-56/1378	)1/1798, 11-13=-8					★ GA	
<ol> <li>Wind: ASCE 7- MWFRS (envelo grip DOL=1.60</li> <li>Provide adequa</li> <li>This truss has b</li> </ol>	of live loads have been con 16; Vult=115mph (3-secon- ope) gable end zone; canti tte drainage to prevent wat been designed for a 10.0 ps been designed for a live lo	d gust) Vasd=91m lever left and right er ponding. sf bottom chord liv	ph; TCDL=6.0psf; BCDL= exposed ; end vertical lef e load nonconcurrent with	t and right expose	d; Lumber DO ds.	L=1.60 plate	SS/00	DI62101

5) \* 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.

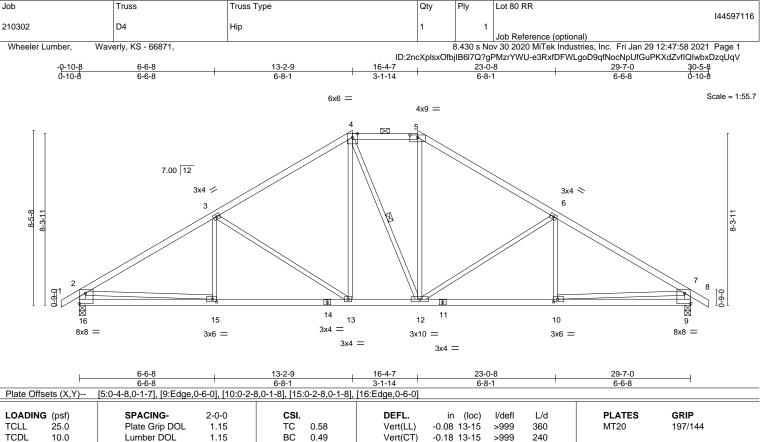
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=153, 9=153.

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) 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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BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.81 Matrix-S	Horz(CT) 0.0	05 9 n/a 05 13-15 >999	n/a 240	Weight: 124 lb
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF	PF No.2 PF No.2		BRACING- TOP CHORD		0	ectly applied or 3-7-5 o -0 oc purlins (5-2-5 max

BOT CHORD WEBS 4-12 1 Row at midpt

or 3-7-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-5 max.): 4-5. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-3-8, 9=0-3-8 Max Horz 16=233(LC 7) Max Uplift 16=-171(LC 8), 9=-171(LC 9) Max Grav 16=1390(LC 1), 9=1390(LC 1)

2x3 SPF No.2 \*Except\*

2-16,7-9: 2x4 SPF No.2

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

- 2-3=-1985/221, 3-4=-1512/204, 4-5=-1196/229, 5-6=-1513/204, 6-7=-1985/221,
- 2-16=-1325/205, 7-9=-1324/205 BOT CHORD 15-16=-250/637, 13-15=-216/1620, 12-13=-32/1195, 10-12=-90/1620, 9-10=-135/506
- WEBS 3-13=-544/218, 4-13=-62/389, 5-12=-52/379, 6-12=-541/218, 2-15=0/1120, 7-10=0/1118

#### NOTES-

WEBS

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

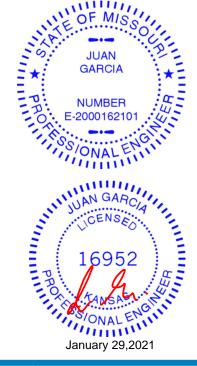
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) \* 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=171, 9=171

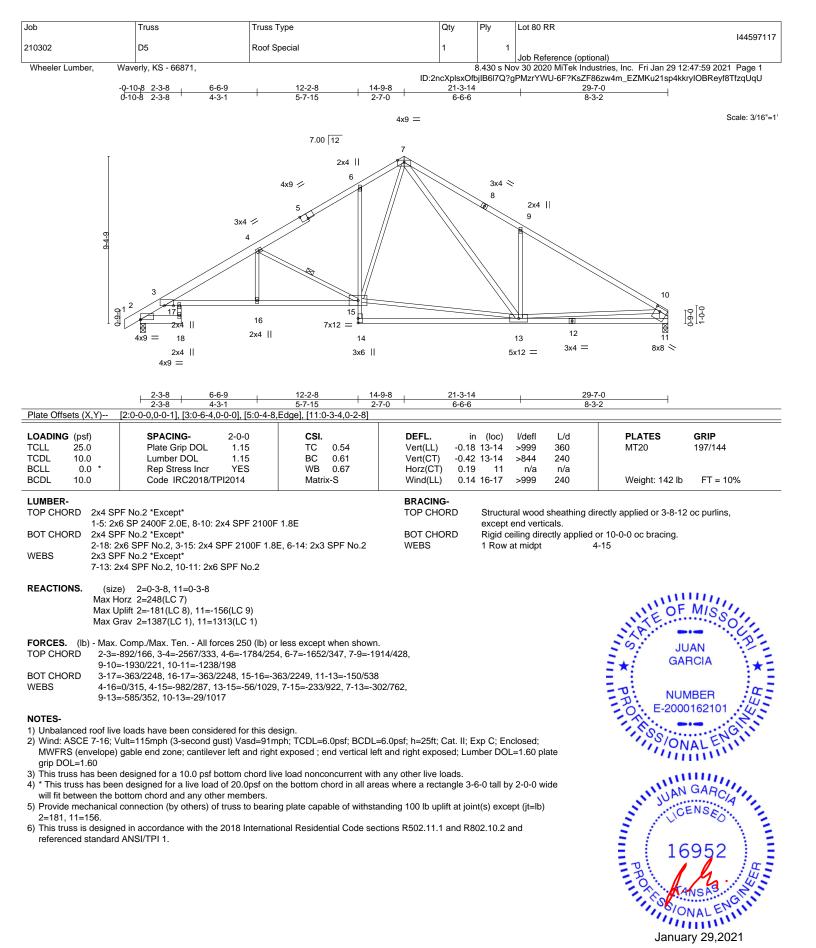
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

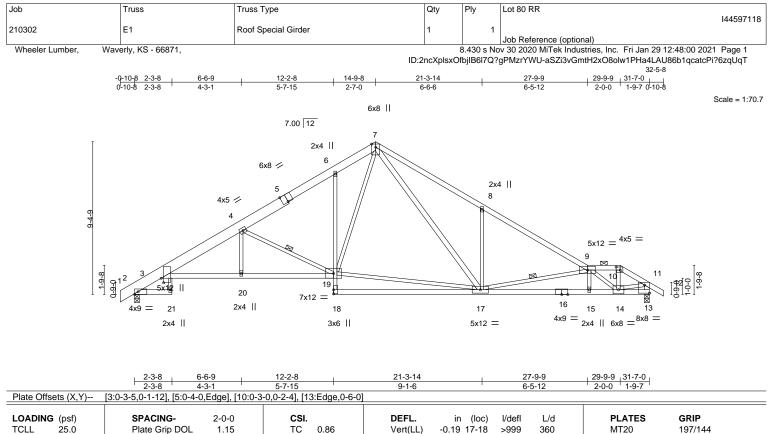


FT = 10%









	0 *	Lumber DOL Rep Stress Incr	1.15 NO	BC WB	0.91 0.72	Vert(CT Horz(C	) 0.22		>868 n/a	240 n/a			
BCDL 10.0	0	Code IRC2018/T	PI2014	Matri	x-S	Wind(Ll	.) 0.12	2 19-20	>999	240	Weight: 163	lb FT = 10%	
LUMBER-						BRACIN	G-						
TOP CHORD	2x4 SPF	No.2 *Except*				TOP CH	ORD	Structu	ural wood	sheathing of	directly applied, excer	pt end verticals, ar	d
	5-7: 2x6	SPF No.2, 1-5: 2x8 SP	DSS					2-0-0 0	oc purlins	(4-8-6 max.	.): 9-10.		
BOT CHORD	2x4 SPF	No.2 *Except*				BOT CH	ORD	Rigid o	ceiling dire	ectly applied	d or 6-0-0 oc bracing.		
	6-18: 2x3	SPF No.2, 16-18: 2x4	SPF 2100F 1.	8E		WEBS		1 Row	at midpt		4-19, 9-17		
WEBS	2x3 SPF	No.2 *Except*											
	7-17,11-1	3: 2x4 SPF No.2											
REACTIONS.	Max Hor Max Upli	2=0-3-8, 13=0-3-8 z 2=252(LC 28) ft 2=-179(LC 8), 13=-2 v 2=1493(LC 1), 13=1									NYATE.	FMISSO	
· · ·	) - Max. Co	omp./Max. Ten All fo	rces 250 (lb) or	less except	when show	/n.					- 0:	JUAN	2.
TOP CHORD		37/192, 3-4=-2751/335	,	,	,	,						ARCIA	
		294/277, 9-10=-1524/2	,	,								ANCIA	*
BOT CHORD		364/2481, 19-20=-362/	,	,							<b>T</b>		1
WEBS		019/281, 17-19=-62/1	,	,	,	,					- 70: NI	UMBER :	œ
	9-17=-1	154/264, 9-14=-1916/	246, 10-14=-13	9/814, 11-14	1=-157/1379	9					- 2.	•	4
NOTES											- O E-20	00162101	4:

#### NOTES-

Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) \* 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=179, 13=213.

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/TPL1

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

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 131 lb down and 68 lb up at 29-9-9 on top chord, and 12 lb down and 10 lb up at 29-8-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) 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

### Continued on page 2

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





Truss	Truss Type	Qty	Ply	Lot 80 RR
				I44597118
E1	Roof Special Girder	1	1	
				Job Reference (optional)
rly, KS - 66871,		8	3.430 s No	ov 30 2020 MiTek Industries, Inc. Fri Jan 29 12:48:00 2021 Page 2
	Truss E1 rly, KS - 66871,	E1 Roof Special Girder	E1 Roof Special Girder 1	E1 Roof Special Girder 1 1

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-aSZi3vGmtH2xO8olw1PHa4LAU86b1qcatcPi?6zqUqT

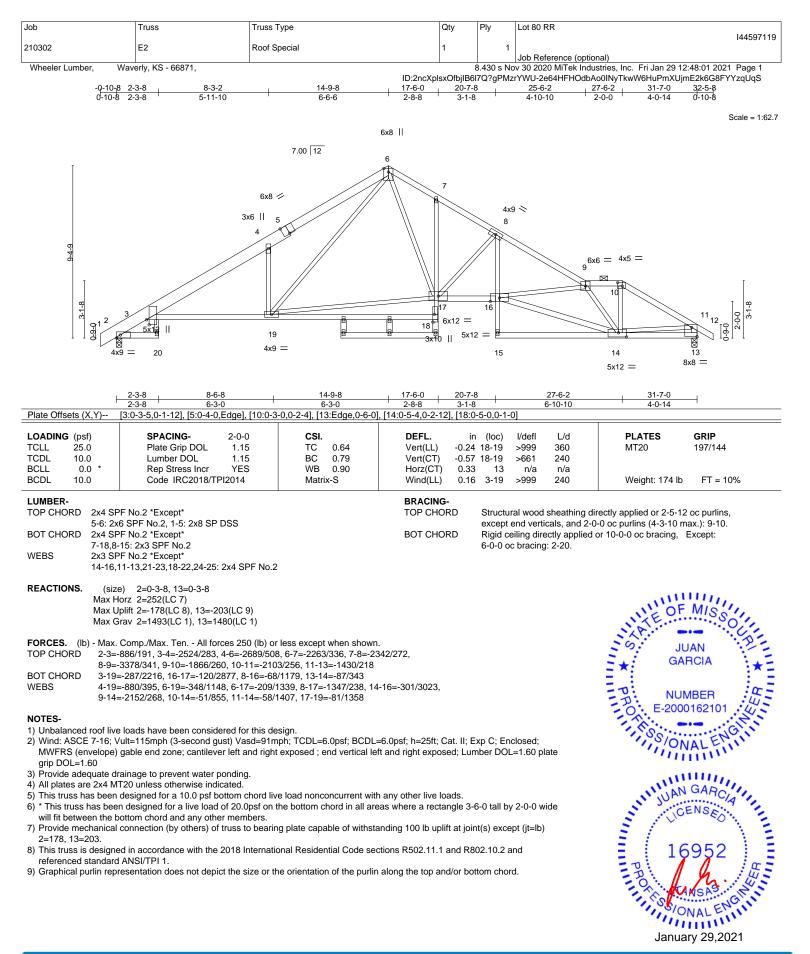
LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

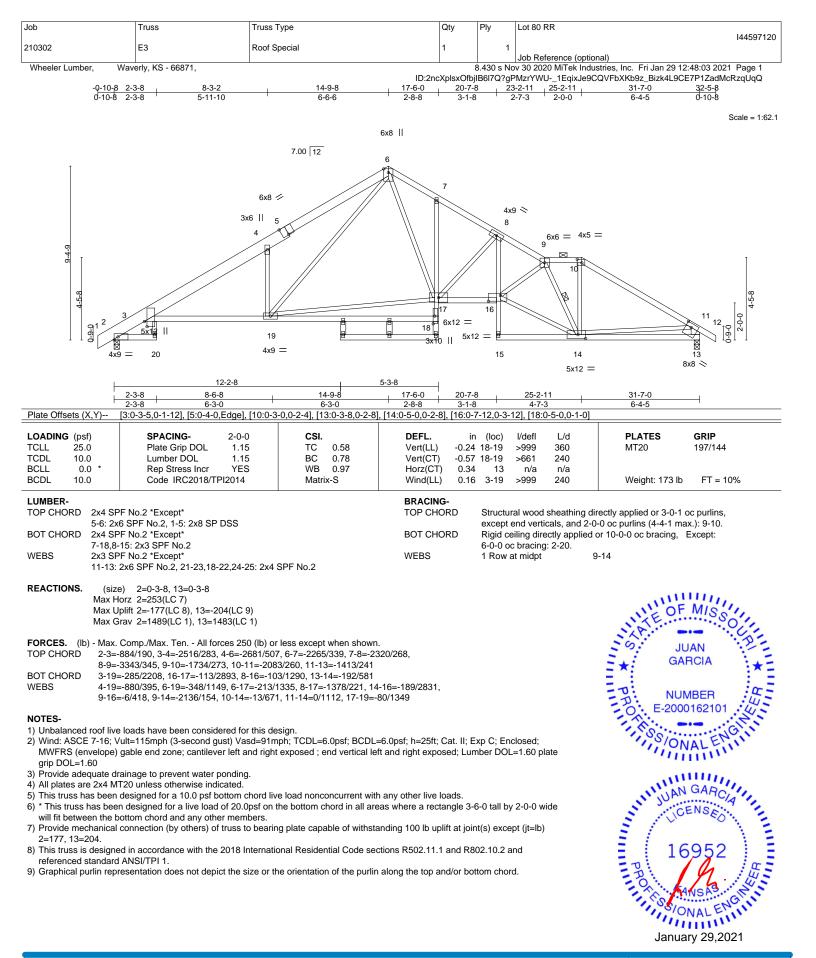
Uniform Loads (plf) Vert: 1-7=-70, 7-9=-70, 9-10=-70, 10-11=-70, 11-12=-70, 2-21=-20, 3-19=-20, 13-18=-20

Concentrated Loads (lb) Vert: 14=4(F)

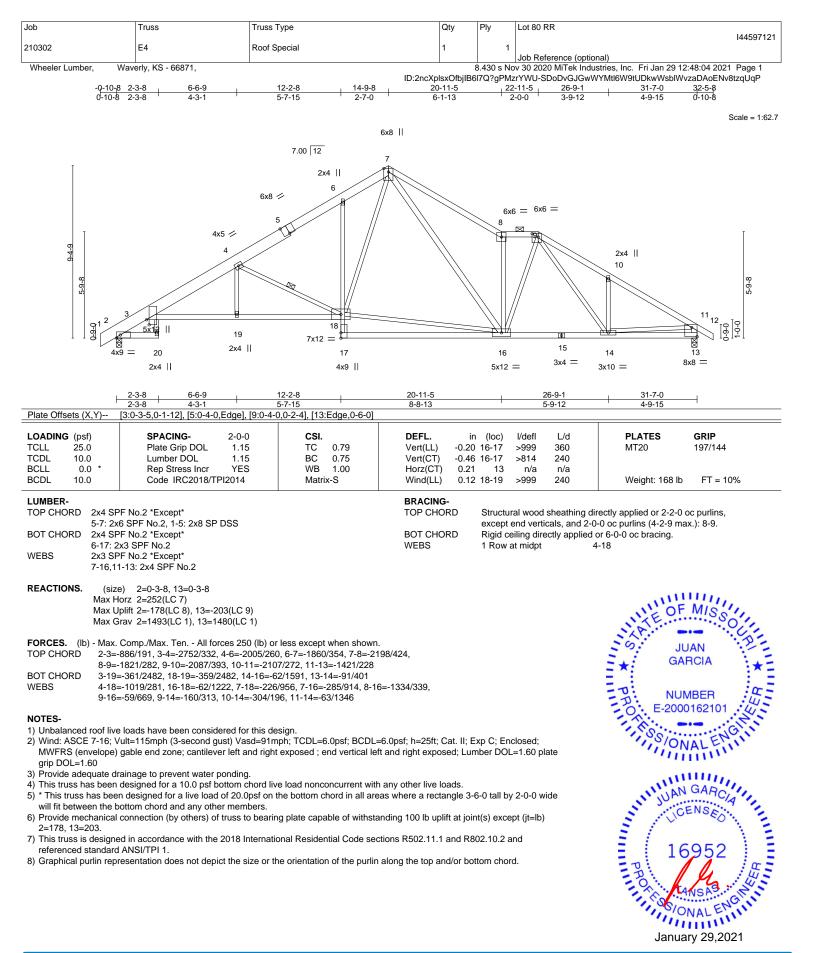




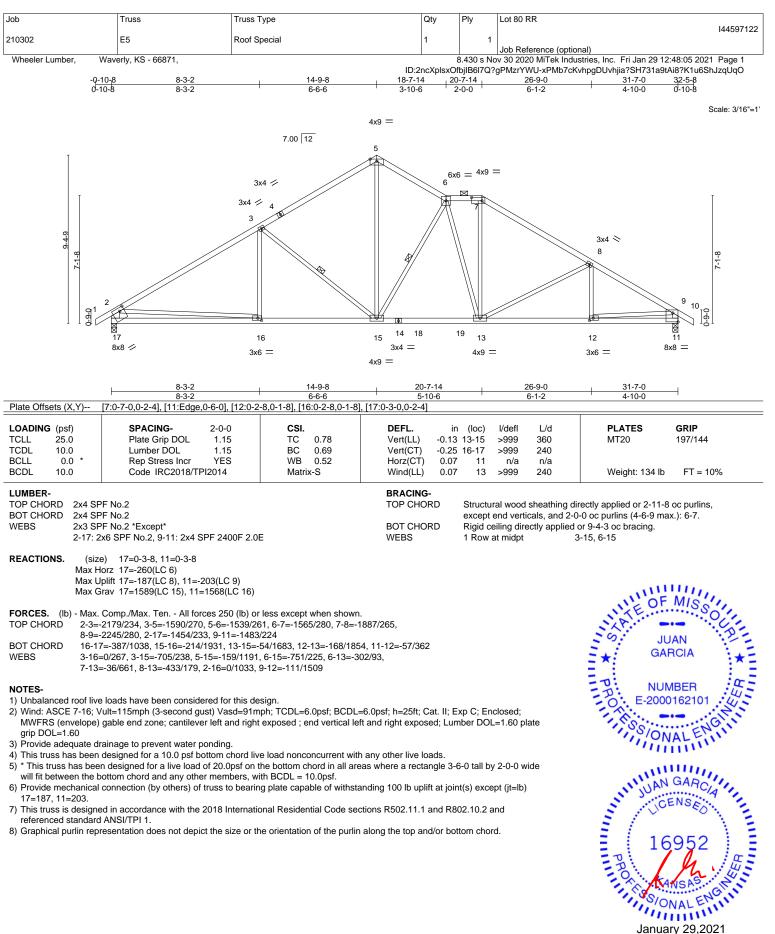
16023 Swingley Ridge Rd Chesterfield, MO 63017



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 system. See **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

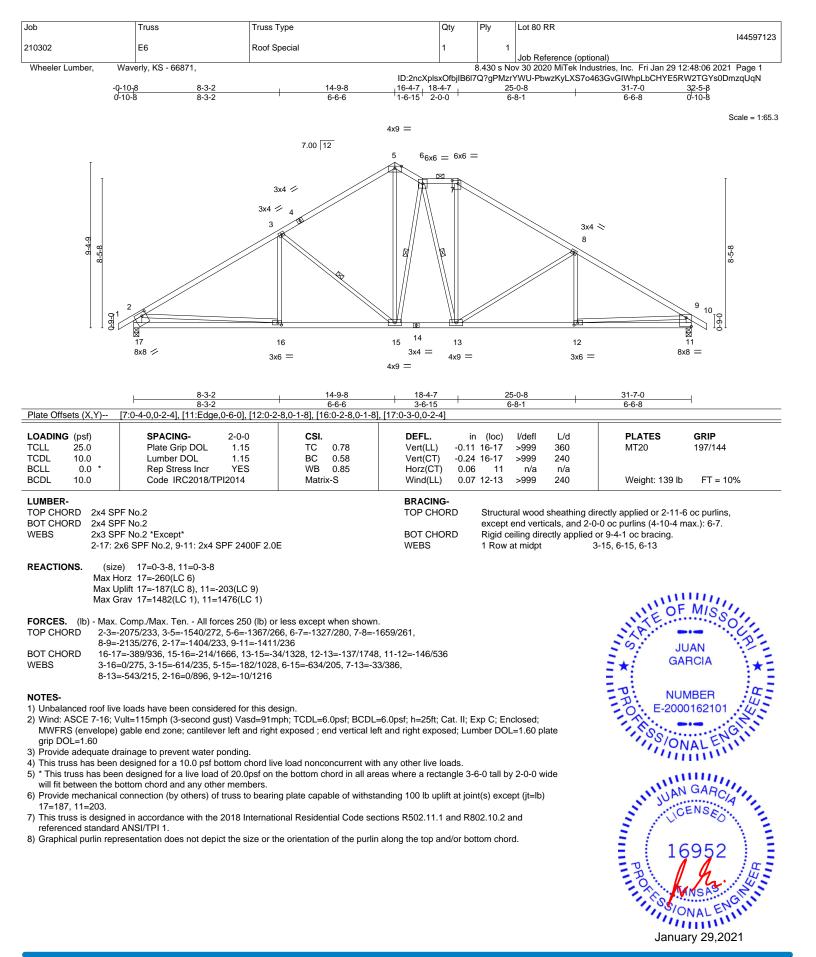


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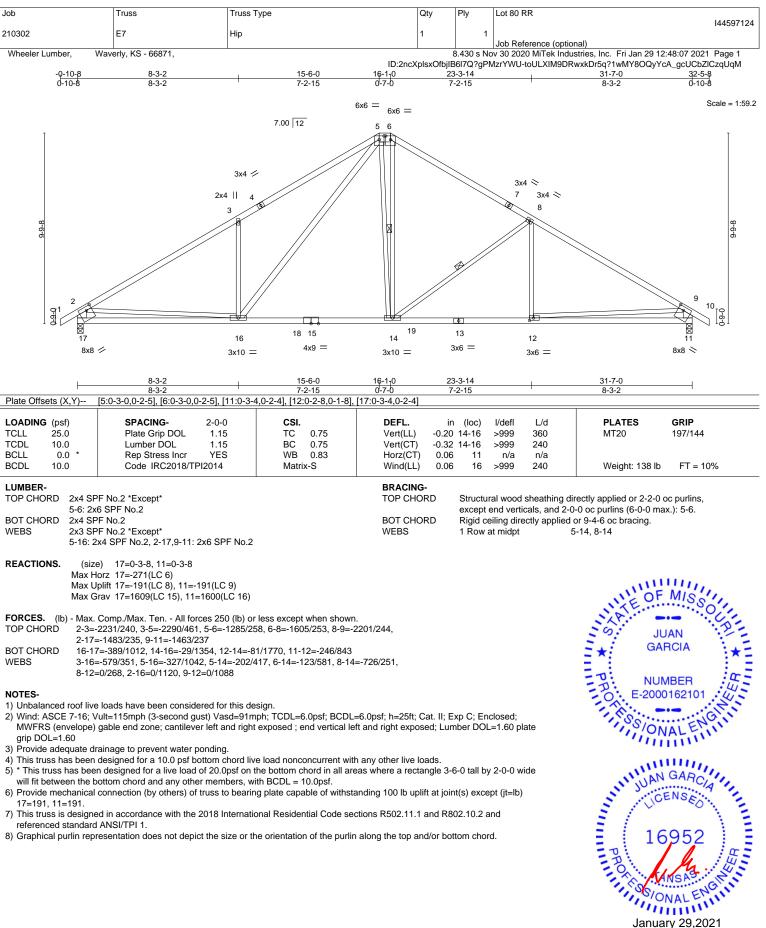


January 29,2021



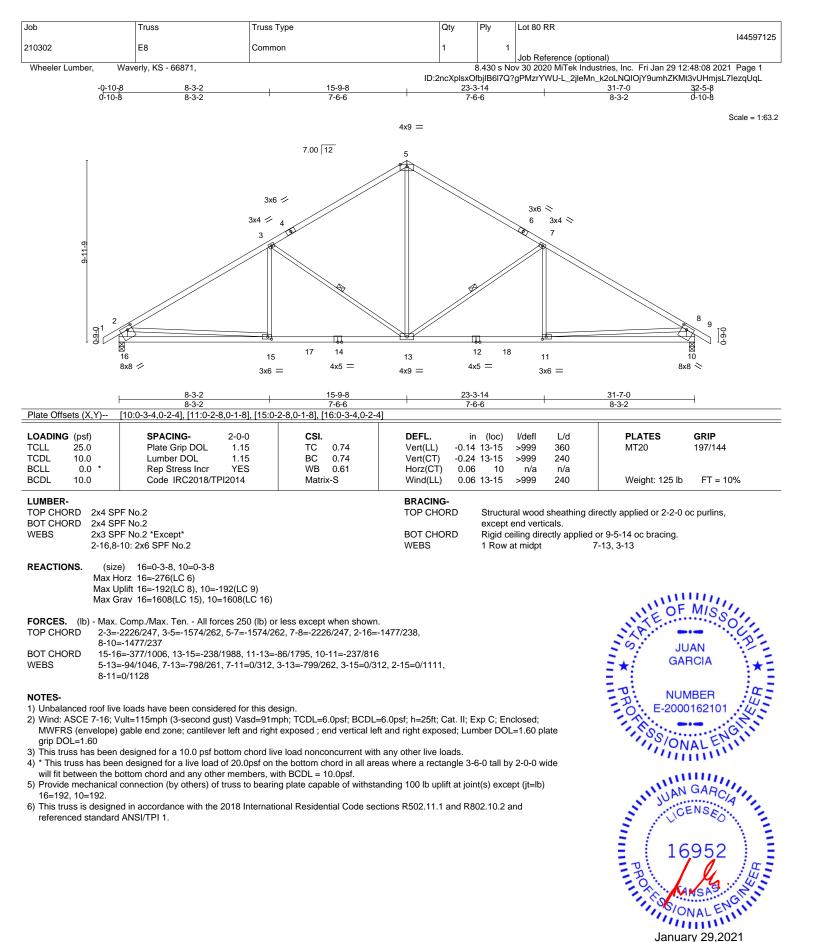








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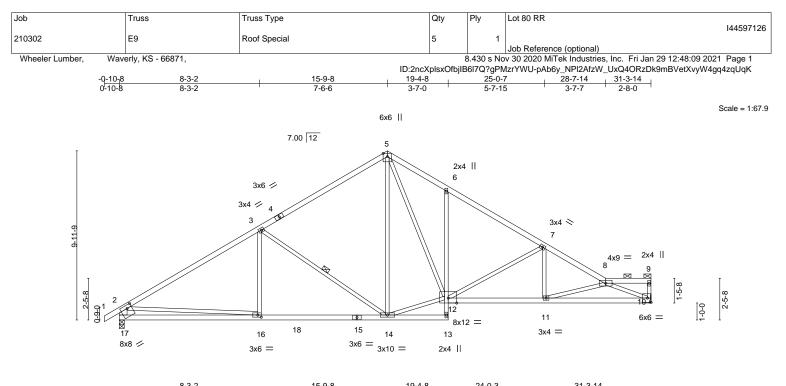
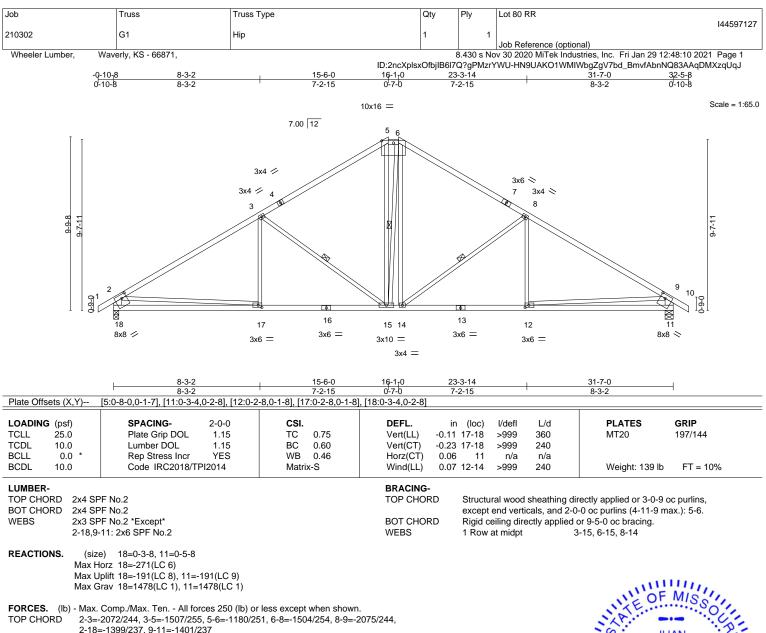


Plate Offsets (X,Y)	8-3-2	15-9-8	19-4-8	24-0-3	31-3-14		
	8-3-2	7-6-6	3-7-0	4-7-11	7-3-11	1	
	[16:0-2-8,0-1-8], [17:0-3-4,0-2-4]						
TCLL         25.0           TCDL         10.0           BCLL         0.0 *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.74 BC 0.86 WB 0.87 Matrix-S	Vert(LL) -0.17 Vert(CT) -0.31 Horz(CT) 0.10	(loc) l/defl 11-12 >999 11-12 >999 10 n/a 11-12 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 133 lb	<b>GRIP</b> 197/144 FT = 10%
BCDL 10.0	Code IRC2018/1912014	Matrix-S	Wind(LL) 0.07	11-12 >999	240	weight: 133 lb	F1 = 10%
BOT CHORD 2x4 S 6-13: WEBS 2x3 S	SPF No.2 SPF No.2 *Except* 2x3 SPF No.2 SPF No.2 *Except* 2x6 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	except end vertie	sheathing directly cals, and 2-0-0 oc ctly applied or 10- : 13-14. 3-14	purlins (6-0-0 ma	x.): 8-9.
Max Max	ze) 10=Mechanical, 17=0-3-8 Horz 17=222(LC 5) Uplift 10=-14(LC 9), 17=-24(LC 8) Grav 10=1450(LC 14), 17=1591(LC 13	;)				NIL OF	MISS
TOP CHORD 2-3= 2-17 BOT CHORD 16-7 WEBS 3-16	<ul> <li>Comp./Max. Ten All forces 250 (lb)</li> <li>-2208/39, 3-5=-1542/91, 5-6=-1984/13</li> <li>7=-1461/69</li> <li>17=-221/935, 14-16=-54/1923, 6-12=-3</li> <li>6=0/322, 3-14=-793/128, 5-14=-18/348</li> <li>1=0/410, 8-11=-594/61, 8-10=-3066/64</li> </ul>	35, 6-7=-2008/52, 7-8=-2708/ 40/128, 11-12=0/2301, 10-11 , 12-14=0/1313, 5-12=-99/12-	=-52/2859		annu.	★ GAI	AN RCIA
	ve loads have been considered for this Vult=115mph (3-second qust) Vasd=9		6 Opofi h. 25tti Cot III E			O E-2000	• [] []
MWFRS (envelope	(3-second gust) vasa=9 (a); cantilever left and right exposed ; end drainage to prevent water ponding.				60	SSION	ALENI
	n designed for a 10.0 psf bottom chord en designed for a live load of 20.0psf o bottom chord and any other members,	n the bottom chord in all area		6-0 tall by 2-0-0 wi	de		
	or truss to truss connections.		nding 100 lb uplift at ioir	nt(s) 10. 17.		III JUAN	GARCIA
will fit between the 6) Refer to girder(s) fo 7) Provide mechanica	al connection (by others) of truss to bea ned in accordance with the 2018 Intern rd ANSI/TPI 1.					PRO 16	ENSED





 
 BOT CHORD
 17-18=-382/921, 15-17=-229/1665, 14-15=-20/1179, 12-14=-82/1668, 11-12=-247/745

 WEBS
 3-17=0/275, 3-15=-640/249, 5-15=-151/572, 6-15=-276/262, 6-14=-75/381, 8-14=-642/248, 8-12=0/282, 2-17=0/916, 9-12=0/925

#### NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

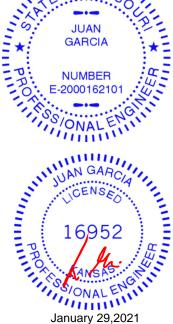
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) \* 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=191, 11=191.

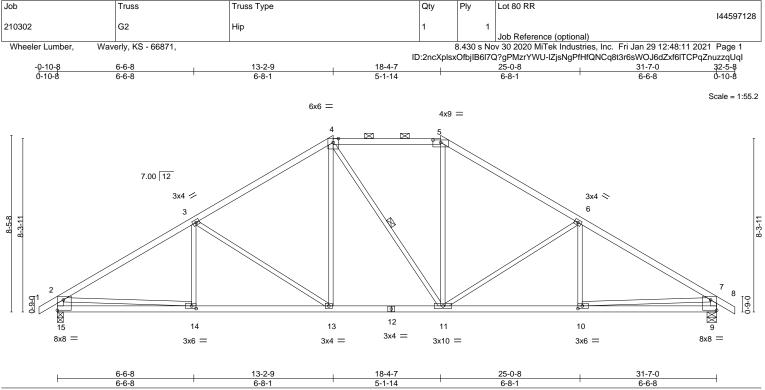
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

8) 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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NITEK<sup>\*</sup> 16023 Swingley Ridge Rd Chesterfield, MO 63017



		6-6-8		6-8-1		5-1-14		6-8-1		6-6-8	
Plate Off	sets (X,Y)	[5:0-4-8,0-1-7], [9:Edge,	0-6-0], [10:0-2	2-8,0-1-8], [14:	0-2-8,0-1-8],	[15:Edge,0-6-0]					
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.11 13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.22 13-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.06 9	) n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-S	Wind(LL)	0.06 13-14	>999	240	Weight: 129 lb	FT = 10%
LUMBEF	<b>{-</b>	1				BRACING-					
TOP CH	ORD 2x4 S	SPF No.2				TOP CHOP	D Struc	tural wood	sheathing d	irectly applied or 3-3-12	oc purlins,
BOT CH	ORD 2x4 S	SPE No 2					excer	ot end vert	icals and 2-	0-0 oc purlins (4-8-2 ma	x.): 4-5.

BOT CHORD WEBS	2x4 SPF No.2 2x3 SPF No.2 *Except* 2-15,7-9: 2x4 SPF No.2	BOT CHORD WEBS	except end verticals, and 2-0-0 oc purlins (4-8-2 max.): 4-5. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 4-11
REACTIONS.	(size) 15=0-3-8, 9=0-5-8		

Max Horz 15=233(LC 7) Max Uplift 15=-175(LC 8), 9=-175(LC 9) Max Grav 15=1550(LC 15), 9=1547(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2219/228, 3-4=-1751/209, 4-5=-1418/234, 5-6=-1745/209, 6-7=-2213/228,

2-15=-1442/209, 7-9=-1438/209

BOT CHORD 14-15=-250/734, 13-14=-222/1964, 11-13=-37/1450, 10-11=-96/1831, 9-10=-134/575

WEBS 3-13=-603/219, 4-13=-50/568, 5-11=-30/533, 6-11=-603/219, 2-14=0/1306, 7-10=0/1301

#### NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

5) \* 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.

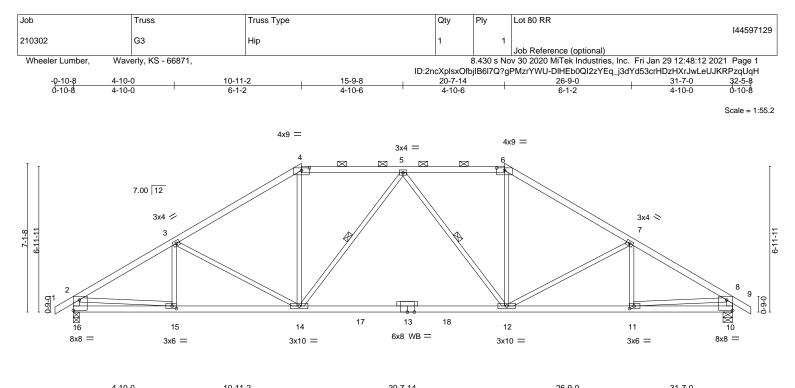
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=175, 9=175.

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) 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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	4-10-0	10-11-2	I	20-7-14				26-9-0	31-		
	4-10-0	6-1-2		9-8-11		1		6-1-2	4-1	0-0	
Plate Offsets (X,Y)	[4:0-4-8,0-1-7], [6:0-4-8,0-	1-7], [10:Edge	,0-6-0], [11:0-2-8,0-1-8],	[15:0-2-8,0-1-8], [1	6:Edge	e,0-6-0]					
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 YES I2014	<b>CSI.</b> TC 0.62 BC 0.58 WB 0.51 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.31	(loc) 12-14 12-14 10 14	l/defl >999 >713 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 127 lb	<b>GRIP</b> 197/144 FT = 10%	
BOT CHORD 2x4 WEBS 2x3 2-16	SPF No.2 SPF 2100F 1.8E SPF No.2 *Except* .8-10: 2x4 SPF No.2 SPF No.2			BRACING- TOP CHOR BOT CHOR WEBS		except Rigid c	end vertic	cals, and 2-0 ctly applied of	rectly applied or 3-1-15 -0 oc purlins (4-5-9 ma or 10-0-0 oc bracing. -14, 5-12		
Max Max	ize) 16=0-3-8, 10=0-5-8 Horz 16=198(LC 7) Uplift 16=-155(LC 8), 10=-1 Grav 16=1537(LC 2), 10=1								NILE OF	MISS	
TOP CHORD         2-3           7-8           BOT CHORD         15-           WEBS         3-1	x. Comp./Max. Ten All forc =-2210/206, 3-4=-1962/171, =-2210/206, 2-16=-1433/18 16=-170/520, 14-15=-208/18 4=-371/199, 4-14=0/648, 5- 15=-71/1474, 8-11=-64/1474	4-5=-1615/19 I, 8-10=-1433/ 398, 12-14=-11 I4=-372/192, 5	8, 5-6=-1615/198, 6-7=-1 180 17/1736, 11-12=-105/185	1962/171, 51, 10-11=-42/387	,				★ GA	JAN RCIA MBER	
<ol> <li>2) Wind: ASCE 7-16 MWFRS (envelop grip DOL=1.60</li> <li>3) Provide adequate</li> <li>4) This truss has bee</li> <li>5) * This truss has bee</li> </ol>	ive loads have been conside ; Vult=115mph (3-second gue e) gable end zone; cantilever drainage to prevent water po en designed for a 10.0 psf bo een designed for a live load o bottom chord and any other	st) Vasd=91mp r left and right onding. ttom chord live of 20.0psf on th	ph; TCDL=6.0psf; BCDL= exposed ; end vertical le e load nonconcurrent with ne bottom chord in all are	ft and right expose	d; Ľum ds.	ber DOI	L=1.60 pla		INSSION	GARCIA	

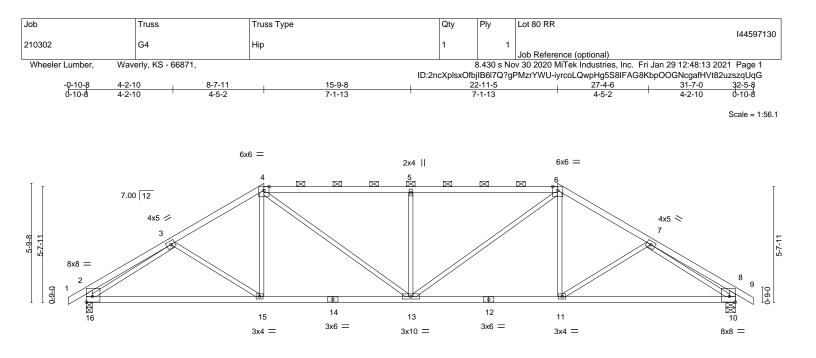
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=155, 10=155.

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) 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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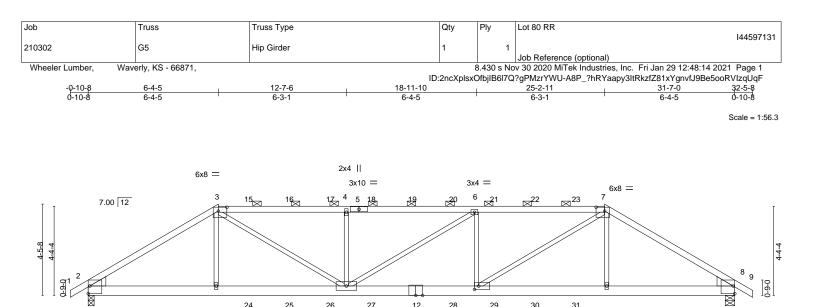


	8-7-11 8-7-11	<u>15-9-8</u> 7-1-13		22-11-5 7-1-13	+	<u>31-7-0</u> 8-7-11	
Plate Offsets (X,Y)	[2:Edge,0-3-4], [10:Edge,0-3-4]					0111	
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.86 BC 0.65 WB 0.95 Matrix-S	Vert(CT) -0 Horz(CT) 0	in (loc) l/defl .13 10-11 >999 .27 10-11 >999 .09 10 n/a .08 13 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 121 lb	<b>GRIP</b> 197/144 FT = 10%
			BRACING- TOP CHORD BOT CHORD	except end ve	ticals, and 2-0	rectly applied or 3-11- -0 oc purlins (2-2-0 m or 10-0-0 oc bracing.	· · · · · · · · · · · · · · · · · · ·
Max H Max U	e) 16=0-3-8, 10=0-5-8 orz 16=163(LC 7) plift 16=-132(LC 8), 10=-132(LC 9) rav 16=1480(LC 1), 10=1480(LC 1)					NUNIT	MISSI
TOP CHORD 2-3=- 7-8=- BOT CHORD 15-16 WEBS 4-15:	Comp./Max. Ten All forces 250 (lb) or 578/63, 3-4=-1969/176, 4-5=-2136/226, 578/63, 2-16=-486/100, 8-10=-486/100 5=-237/1702, 13-15=-191/1644, 11-13=- e0/313, 4-13=-209/711, 5-13=-610/245, =-1567/140, 7-10=-1567/141	5-6=-2136/226, 6-7=-196 77/1644, 10-11=-96/1702	9/176,				UAN IRCIA
<ul> <li>2) Wind: ASCE 7-16; Wind: ASCE 7-16; Wind: AWFRS (envelope)</li> <li>grip DOL=1.60</li> <li>3) Provide adequate diagonality</li> </ul>	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv	ph; TCDL=6.0psf; BCDL= exposed ; end vertical le	it and right exposed;	Lumber DOL=1.60		0, E-200	MBER 0162101
<ul> <li>5) * This truss has bee will fit between the b</li> <li>6) Provide mechanical 16=132, 10=132.</li> <li>7) This truss is designer referenced standard</li> </ul>	n designed for a live load of 20.0psf on to tottom chord and any other members. connection (by others) of truss to bearing ad in accordance with the 2018 Internation	the bottom chord in all are ng plate capable of withsta onal Residential Code sec	eas where a rectangle anding 100 lb uplift at ctions R502.11.1 and	3-6-0 tall by 2-0-0 joint(s) except (jt=ll R802.10.2 and		PHO 10	GARCIA
						III SSIC	ANSAS

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Mitek<sup>®</sup> 16023 Swingley Ridge Rd Chesterfield, MO 63017



12

6x8 =

24

14

2x4 ||

8x8 =

25

26

13

5x12 =

27

11 29

4x9 =

30

31

10

2x4 ||

8x8 =

28

1	6-4-5	12-7-6	18-11-10	25-2-11	31-7-0
	6-4-5	6-3-1	6-4-5	6-3-1	6-4-5
Plate Offsets (X,Y)	[2:Edge,0-4-8], [3:0-5-0,0-2-4]	, [7:0-5-0,0-2-4], [8:Edge,0-4-8], [	[11:0-2-8,0-2-0]		
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	Lumber DOL 1.	15         TC         0.94           15         BC         0.86           NO         WB         0.71	Vert(LL) -0.25 Vert(CT) -0.46 Horz(CT) 0.12	(loc) I/defl L/d 11-13 >999 360 11-13 >819 240 8 n/a n/a 11-13 >999 240	PLATES         GRIP           MT20         197/144           Weight: 130 lb         FT = 10%
3-5,5-7			BRACING- TOP CHORD BOT CHORD	2-0-0 oc purlins (2-8-6 m	blied or 10-0-0 oc bracing, Except:
Max H Max U	e) 2=0-3-8 (req. 0-3-15), 8=1 orz 2=109(LC 7) plift 2=-484(LC 8), 8=-487(LC rav 2=2524(LC 1), 8=2537(LC	9)			OF MISSO
TOP CHORD         2-3=-           BOT CHORD         2-14=           WEBS         3-14=           7-10=	4194/815, 3-4=-5055/968, 4-6 -725/3422, 13-14=-722/3405,	250 (lb) or less except when show =-5052/967, 6-7=-5052/966, 7-8= 11-13=-947/5050, 10-11=-610/3 13=-815/342, 6-11=-845/363, 7-1	=-4170/811 372, 8-10=-613/3389		JUAN GARCIA
2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60	ult=115mph (3-second gust) V	asd=91mph; TCDL=6.0psf; BCD and right exposed ; end vertical			SOONAL ENGILI
<ul> <li>5) * This truss has been will fit between the b</li> <li>6) WARNING: Required</li> <li>7) Provide mechanical</li> </ul>	n designed for a live load of 20 ottom chord and any other me d bearing size at joint(s) 2 grea		areas where a rectangle 3-6	·	16952
referenced standard 9) Graphical purlin repr 10) Hanger(s) or other 7-9-7, 125 lb down and 77 lb up at 15 21-9-8, and 125 lb down at 9-9-7, 60 lb down at 21-9-8, such connection de	ANSI/TPI 1. esentation does not depict the connection device(s) shall be and 77 lb up at 9-9-7, 125 lb -9-8, 125 lb down and 77 lb up down and 77 lb up at 23-9-8 of lb down at 11-9-7, 60 lb down and 60 lb down at 23-9-8, and evice(s) is the responsibility of	International Residential Code s size or the orientation of the pur provided sufficient to support con down and 77 lb up at 11-9-7, 12 at 17-9-8, 125 lb down and 77 ll on top chord, and 429 lb down at at 13-9-7, 60 lb down at 15-9-8 d 429 lb down and 221 lb up at 2 others. he face of the truss are noted as f	lin along the top and/or bot ccentrated load(s) 125 lb do 5 lb down and 77 lb up at ' b up at 19-9-8, and 125 lb id 221 lb up at 6-4-5, 60 lb ,60 lb down at 17-9-8, 60 25-2-11 on bottom chord. T	tom chord. wn and 77 lb up at 13-9-7, 125 lb down down and 77 lb up at down at 7-9-7, 60 lb lb down at 19-9-8, 60	16952 January 29,2021
		ON THIS AND INCLUDED MITEK REFEREN			



Job	Truss	Truss Type	Qty	Ply	Lot 80 RR
					I44597131
210302	G5	Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS - 66871,			3.430 s No	v 30 2020 MiTek Industries, Inc. Fri Jan 29 12:48:14 2021 Page 2

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 29 12:48:14 2021 Page 2 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-A8P\_?hRYaapy3ltRkzfZ81xYgnvfJ9Be5ooRVIzqUqF

### LOAD CASE(S) Standard

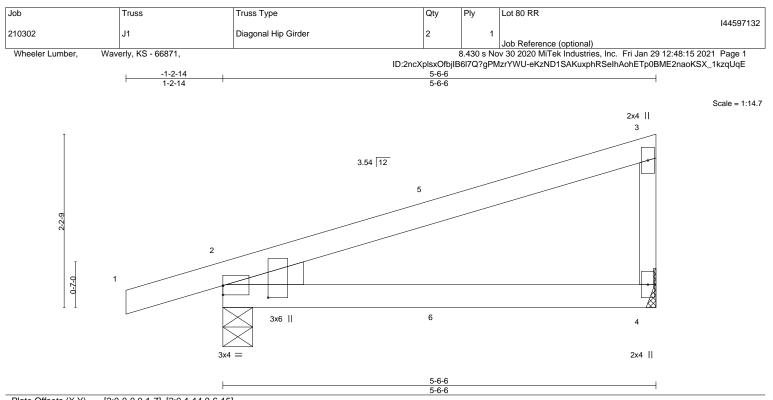
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-3=-70, 3-7=-70, 7-9=-70, 2-8=-20

Concentrated Loads (lb)

Vert: 12=-45(B) 14=-429(B) 10=-429(B) 15=-93(B) 16=-93(B) 17=-93(B) 18=-93(B) 19=-93(B) 20=-93(B) 21=-93(B) 22=-93(B) 23=-93(B) 24=-45(B) 25=-45(B) 26=-45(B) 27=-45(B) 28=-45(B) 29=-45(B) 30=-45(B) 31=-45(B) 31=-45(B





_OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. i	n (loc)	l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) -0.05	2-4	>999	360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.09	2-4	>696	240	
3CLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00	4	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00	2	****	240	Weight: 17 lb FT = 10%

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 WEDGE Left: 2x4 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-4-9

Max Horz 2=84(LC 5) Max Uplift 4=-47(LC 8), 2=-106(LC 4) Max Grav 4=222(LC 1), 2=349(LC 1)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) \* 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.

- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2 = 106
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 39 lb up at 2-9-8, and 69 lb down and 39 lb up at 2-9-8 on top chord, and 2 lb down at 2-9-8, and 2 lb down at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

8) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-70, 2-4=-20



Structural wood sheathing directly applied or 5-6-6 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



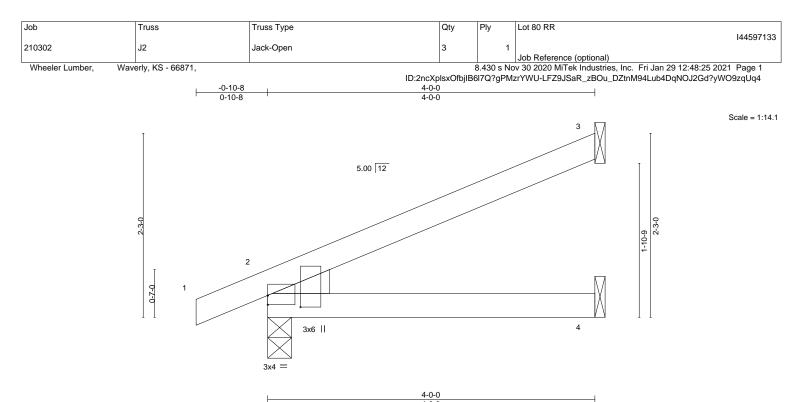


Plate Offs	ets (X,Y)	[2:0-0-0,0-1-6], [2:0-1-11	,0-4-13]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.23	Vert(LL)	-0.01	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 12 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

#### LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=81(LC 8) Max Uplift 3=-71(LC 8), 2=-39(LC 8) Max Grav 3=123(LC 1), 2=252(LC 1), 4=76(LC 3)

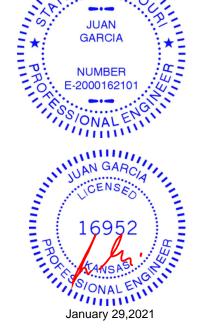
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



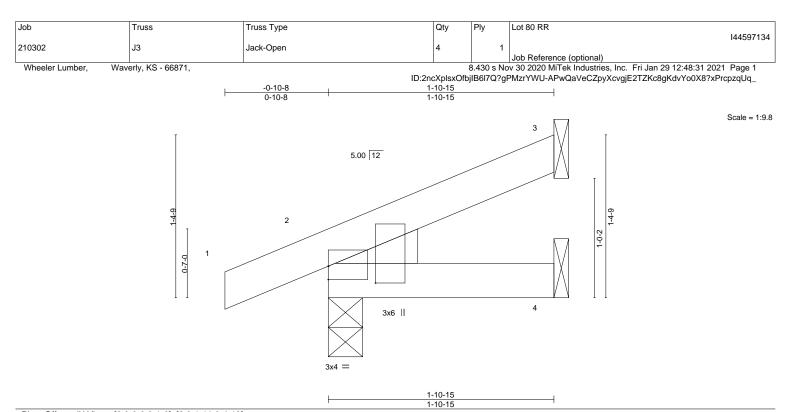
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Structural wood sheathing directly applied or 4-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.





		•									
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	2	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	2-4	>999	240		
3CLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
3CDL 10.0	Code IRC2018/TF	PI2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 7 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

#### LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE

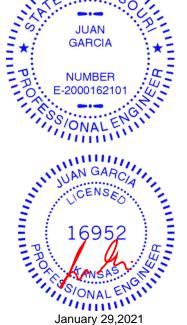
REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=47(LC 8) Max Uplift 3=-34(LC 8), 2=-31(LC 4) Max Grav 3=50(LC 1), 2=163(LC 1), 4=37(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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 3) will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 1-10-15 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

January 29,2021

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



Left: 2x4 SPF No.2

ob	Truss	Truss Type	Qty	Ply	Lot 80 RR	
						144597135
10302	J4A	Jack-Closed Supported Gable	2	1		
					Job Reference (optional)	
Wheeler Lumber,	Waverly, KS - 66871,		D.OneVal		ov 30 2020 MiTek Industries, Inc. Fri Jan 29 12:48: Q?gPMzrYWU-ecUonrfqK64OE3Fvol_otpgrT1F?XTr	
		-0-4-8	1-6-0	SKOIDJIDOI/	2/gFI021100-ec00111qR040E3F001_0tpg111F?X11	iiEb907F2q0p2
			1-6-0		———————————————————————————————————————	
				2		Scale = 1:8
		Ţ		3 2x4	1	
		6.00 12		2,44 11		
		0.00   12				
			/	[     ]     [     ]     ]		
		2-0				
		2		Г		
		0-5-0				
				L		
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~	~~~~	
					***	
				4		
				4		

2x4 =

2x4 ||

except end verticals.

LOADING (psf)	SPACING- 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	PLATES         GRIP           MT20         197/144
TCLL 25.0	Plate Grip DOL 1.15	TC 0.03	Vert(LL) -0.00 1 n/r 120	
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00 1 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) 0.00 1 n/r 120	Weight: 5 lb FT = 10%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Horz(CT) -0.00 4 n/a n/a	

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

REACTIONS. 4=1-6-0, 2=1-6-0 (size) Max Horz 2=35(LC 5)

Max Uplift 4=-15(LC 8), 2=-17(LC 8) Max Grav 4=59(LC 1), 2=93(LC 1)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.

4) Gable studs spaced at 2-0-0 oc.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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OF MIS

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Structural wood sheathing directly applied or 1-6-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.



Job	Truss	Truss Type	Qty	Ply	Lot 80 RR
210302	J5A	Jack-Closed	2	1	144597136
			-		Job Reference (optional)
Wheeler Lumber,	Waverly, KS - 66871,		15 a 14 i	8.430 s N	ov 30 2020 MiTek Industries, Inc. Fri Jan 29 12:48:32 2021 Page 1
		-0-4-8	ID:2ncXpl 1-6-0	sxOfbjIB6I/G	Q?gPMzrYWU-ecUonrfqK64OE3Fvol_otpgrV1F0XTnIEb9O7FzqUpz
		-0-4-8	1-6-0 1-6-0		
					Scale = 1:8.
				3	
		Ţ		2x4	
		6.00 12			
			/	_ Γ	
		1-2-0	/		
		2		_	
		1			
			- 		
		0-2-0			
				_	
				4	
		$\leftarrow$			
				2x4	

			<u>1-6-0</u> 1-6-0				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.02 BC 0.02 WB 0.00	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) -0.00	2 2	l/defl >999 >999 n/a	L/d 360 240 n/a	<b>PLATES GRIP</b> MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00		****	240	Weight: 5 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPE No.2

WEBS 2x3 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-3-8 Max Horz 2=35(LC 5) Max Uplift 4=-15(LC 8), 2=-17(LC 8) Max Grav 4=57(LC 1), 2=94(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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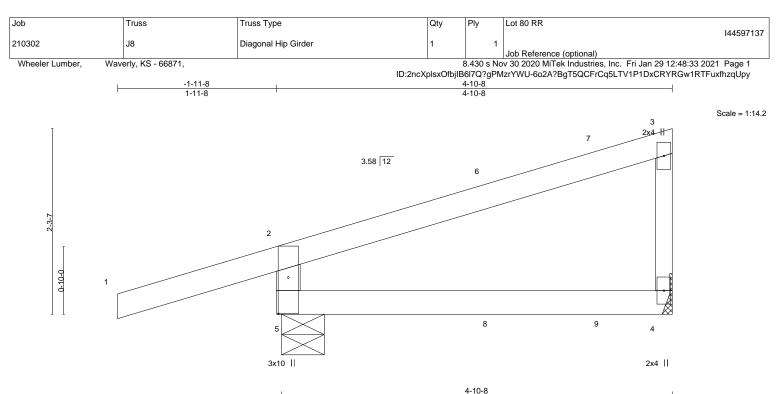
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Structural wood sheathing directly applied or 1-6-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.





4
4

OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT)	-0.04	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.01	4-5	>999	240	Weight: 16 lb	FT = 10%

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 \*Except\* 3-4: 2x3 SPF No.2

TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins, except end verticals. BOT CHORD

-9-12

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-6-5, 4=Mechanical Max Horz 5=96(LC 5) Max Uplift 5=-148(LC 4), 4=-63(LC 5)

Max Grav 5=395(LC 1), 4=222(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-351/175

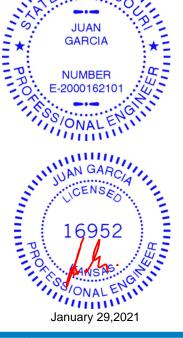
#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=148
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 21 lb up at 2-8-8, and 105 lb down and 83 lb up at 4-1-0 on top chord, and 7 lb down and 10 lb up at 2-8-8, and 30 lb down at 4-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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 + Roof Live (balanced): Lumber Increase=1.15. Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb) Vert: 7=-43(F) 8=5(B) 9=-15(F)

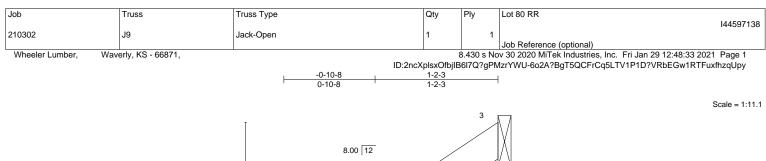


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2 0-10-0 1 4 3x10 ||

1-2-3 1-2-3

			1-2-5			
Plate Offsets (X,Y)	[5:0-5-10,0-1-8]					
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in	(loc)	l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) 0.00	5	>999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00	5	>999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00	5	>999 240	Weight: 5 lb FT = 10%
			5540040			

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=43(LC 8)

Max Uplift 5=-14(LC 8), 3=-22(LC 8), 4=-5(LC 8) Max Grav 5=153(LC 1), 3=17(LC 15), 4=17(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

-7-7

3) \* 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.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



11111 MIS

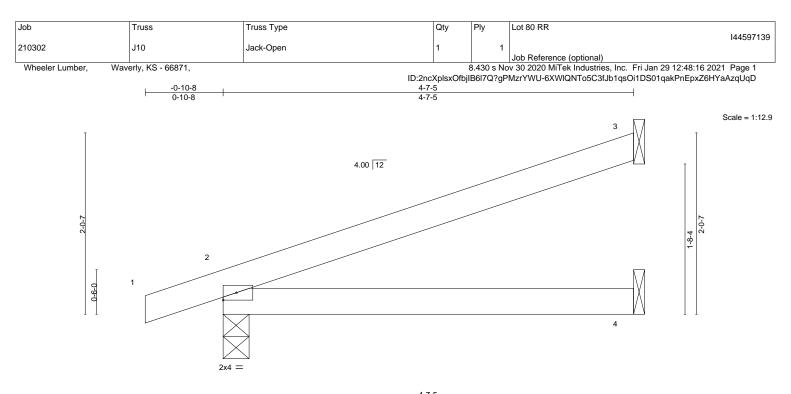
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual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

except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

BRACING-TOP CHORD Structural wood sheathing directly applied or 1-2-3 oc purlins,



		4-7-5									
LOADING (psf)	SPACING- 2	-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	тс	0.33	Vert(LL)	-0.02	2-4	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 2	1.15	BC	0.20	Vert(CT)	-0.05	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI20	014	Matrix	-P	Wind(LL)	0.00	2	****	240	Weight: 12 lb	FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=75(LC 4)

Max Uplift 3=-74(LC 8), 2=-72(LC 4) Max Grav 3=146(LC 1), 2=278(LC 1), 4=88(LC 3)

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

#### NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

3) \* 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.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

# JUAN GARCIA NUMBER E-2000162101 SS/ONAL ENGINE January 29,2021

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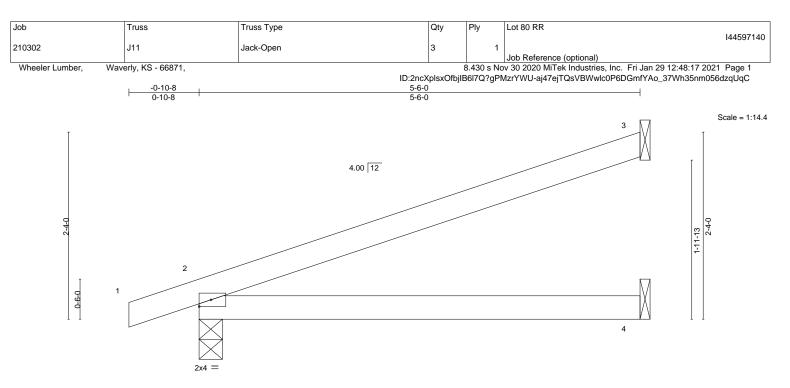
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BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-7-5 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



						5-6-0 5-6-0						
LOADING (ps TCLL 25.	'	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC	0.50	DEFL. Vert(LL)	in -0.05	(loc) 2-4	l/defl >999	L/d 360	PLATES MT20	<b>GRIP</b> 197/144
TCDL 10.	-	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.30	Vert(CT) Horz(CT)	-0.09 -0.00	2-4	>675	240	WI 20	137/144
BCDL 10.	-	Code IRC2018/TF		Matrix		Wind(LL)	0.00	2	n/a ****	n/a 240	Weight: 14 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

### LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=87(LC 4) Max Uplift 3=-90(LC 8), 2=-76(LC 4)

Max Grav 3=178(LC 1), 2=316(LC 1), 4=106(LC 3)

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

#### NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

3) \* 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.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

## JUAN GARCIA NUMBER E-2000162101 S/ONAL ENGINE 16952 BORNAL ENGINE January 29,2021

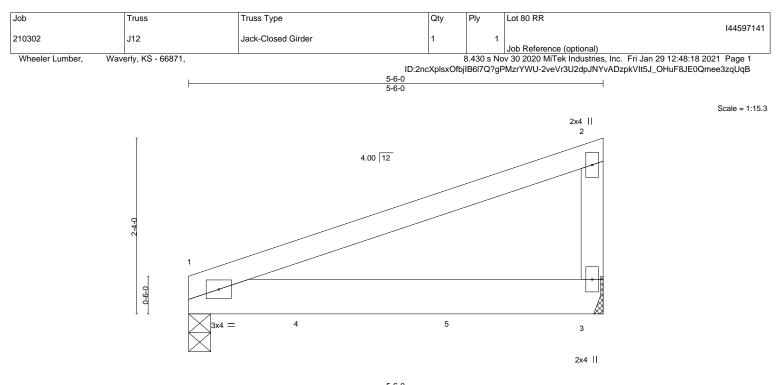
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Structural wood sheathing directly applied or 5-6-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

16023 Swingley Ridge Rd Chesterfield, MO 63017



				5-6-0						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.		(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip D	OL 1.15	TC 0.60	Vert(LL)	-0.10	1-3	>616	360	MT20	197/144
TCDL 10.0	Lumber DOL	. 1.15	BC 0.77	Vert(CT)	-0.19	1-3	>334	240		
BCLL 0.0	Rep Stress I	ncr NO	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC20	18/TPI2014	Matrix-P	Wind(LL)	0.07	1-3	>901	240	Weight: 21 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

#### LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x6 SP DSS WEBS

2x4 SPF No.2

REACTIONS. (size) 1=0-3-8, 3=Mechanical Max Horz 1=85(LC 5) Max Uplift 1=-157(LC 4), 3=-155(LC 8)

Max Grav 1=1162(LC 1), 3=1037(LC 1)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=157.3=155.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 865 lb down and 120 lb up at 1-6-12, and 865 lb down and 120 lb up at 3-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf) Vert: 1-2=-70. 1-3=-20
- Concentrated Loads (lb)
  - Vert: 4=-865(F) 5=-865(F)



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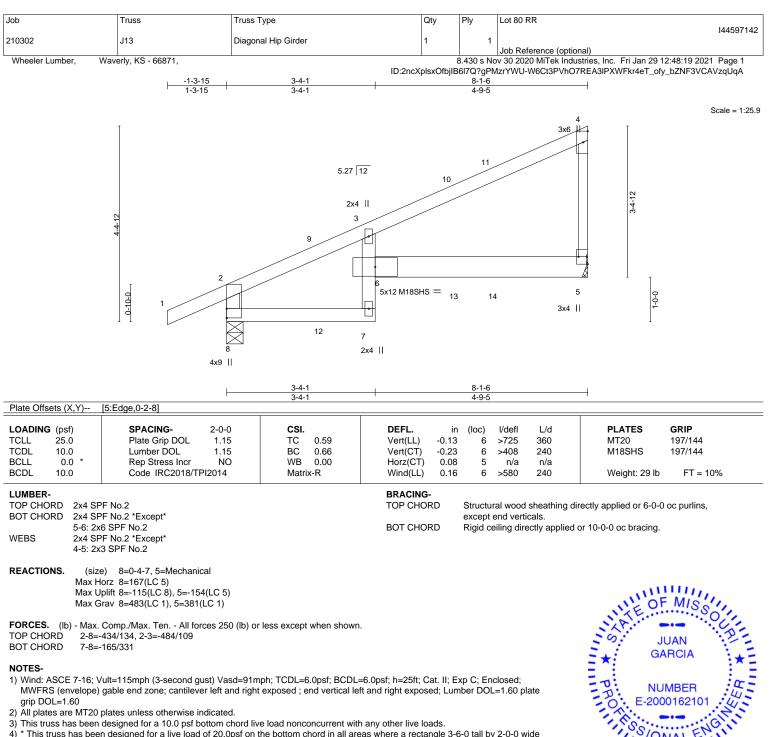
Structural wood sheathing directly applied or 5-6-0 oc purlins,

Rigid ceiling directly applied or 6-1-2 oc bracing.

except end verticals.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



2) All plates are MT20 plates unless otherwise indicated.

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

\* 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 4) will fit between the bottom chord and any other members.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=115, 5=154

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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 35 lb up at 2-1-10, 79 lb down and 50 lb up at 3-4-11, and 109 lb down and 65 lb up at 5-2-1, and 104 lb down and 63 lb up at 6-0-9 on top chord, and 6 lb down and 2 lb up at 2-1-10, 9 lb down and 12 lb up at 3-2-5, and 32 lb down and 36 lb up at 5-2-1, and 35 lb down and 31 lb up at 6-0-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 9) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 7-8=-20, 5-6=-20

#### Continued on page 2





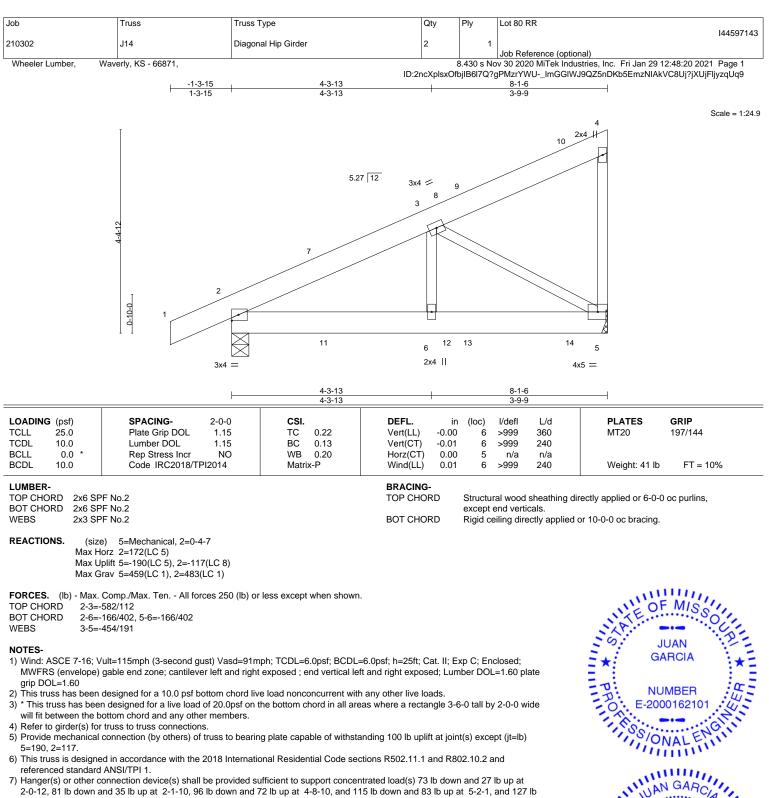
Job	Truss	Truss Type	Qty	Ply	Lot 80 RR
					I44597142
210302	J13	Diagonal Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS - 66871,		8	8.430 s No	v 30 2020 MiTek Industries, Inc. Fri Jan 29 12:48:19 2021 Page 2

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-W6Ct3PVhO7REA3IPXWFkr4eT\_ofy\_bZNF3VCAVzqUqA

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 7=0(F) 10=-7(B) 11=-7(F) 12=2(B) 13=-28(B) 14=-12(F)





2-0-12, 81 lb down and 35 lb up at 2-1-10, 96 lb down and 72 lb up at 4-8-10, and 115 lb down and 83 lb up at 5-2-1, and 127 lb down and 129 lb up at 7-4-8 on top chord, and 7 lb down and 9 lb up at 2-0-12, 6 lb down and 2 lb up at 2-1-10, 19 lb down at 4-8-10, and 26 lb down at 5-2-1, and 53 lb down at 7-4-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

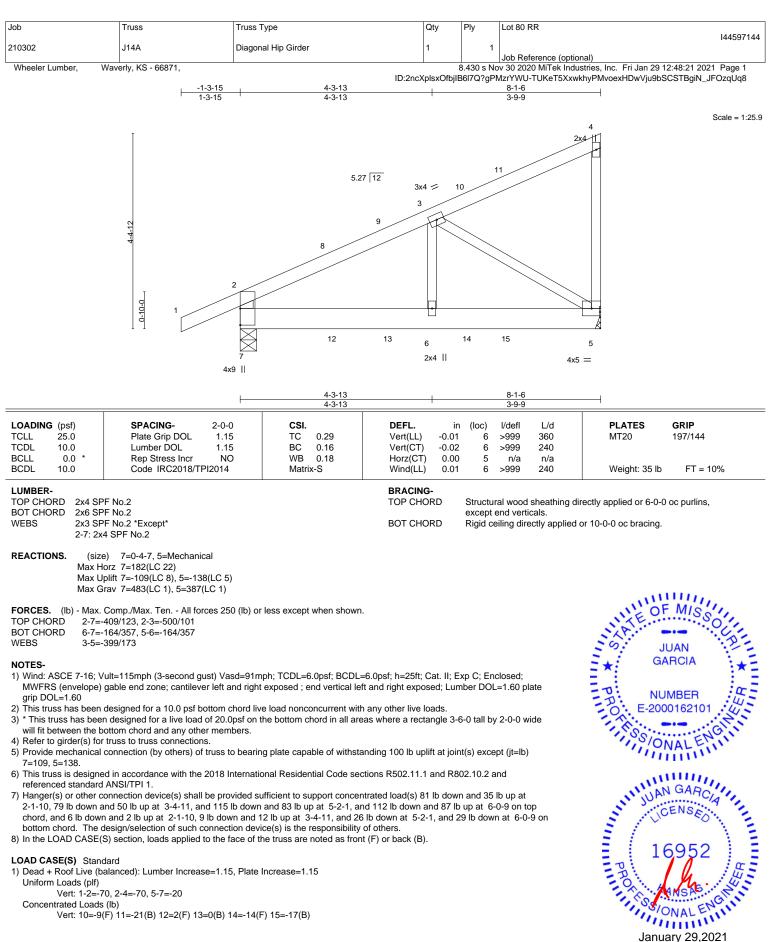
Uniform Loads (plf)

Vert: 1-4=-70, 2-5=-20 Concentrated Loads (lb)

Vert: 9=-9(F) 10=-84(B) 11=6(F=2, B=4) 12=-4(B) 13=-14(F) 14=-26(B)







1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 5-7=-20 Concentrated Loads (lb) Vert: 10=-9(F) 11=-21(B) 12=2(F) 13=0(B) 14=-14(F) 15=-17(B)

January 29,2021



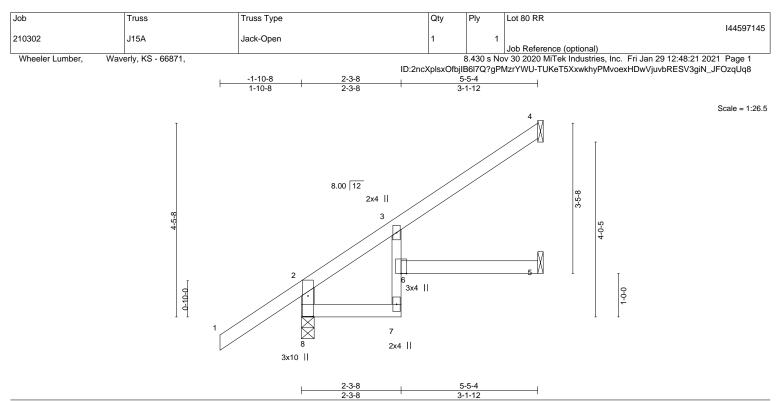


Plate Off	sets (X,Y)	[8:0-5-10,0-1-8]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.04	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.08	6	>767	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.04	5	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	0.07	6	>881	240	Weight: 18 lb	FT = 10%

LUMBER-
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TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 \*Except\* 3-7: 2x3 SPF No.2 WEBS 2x4 SPF No.2

BRACING-TOP CHORD except end verticals. BOT CHORD

Structural wood sheathing directly applied or 5-5-4 oc purlins, Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=181(LC 8) Max Uplift 8=-36(LC 8), 4=-90(LC 8), 5=-8(LC 8) Max Grav 8=404(LC 1), 4=154(LC 15), 5=85(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-8=-367/67

#### NOTES-

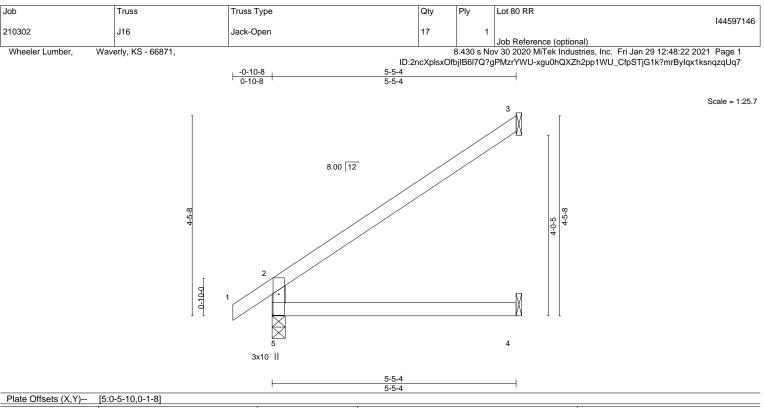
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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LOADING	) (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.08	4-5	>791	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	ĸ-R	Wind(LL)	0.04	4-5	>999	240	Weight: 16 lb	FT = 10%

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-5-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=110(LC 8)

Max Uplift 3=-69(LC 8) Max Grav 5=314(LC 1), 3=168(LC 13), 4=100(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-275/28

#### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) \* 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.

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

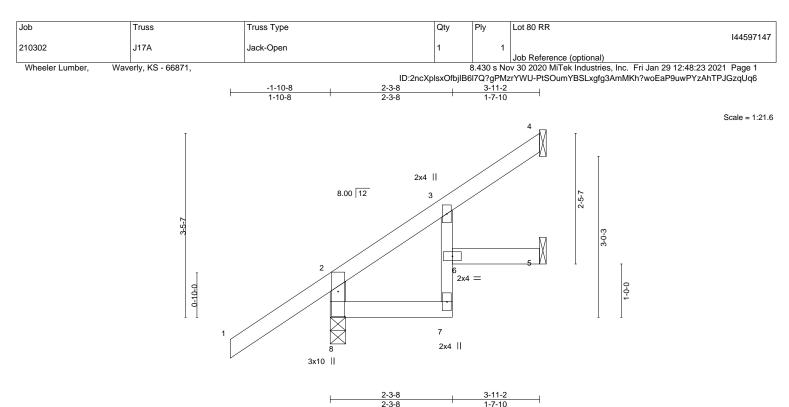
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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OADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in	(loc) l	l/defl L/d	PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) -0.01	6 >	>999 360	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) -0.02	7 >	>999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01	5	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01	6 >	>999 240	Weight: 14 lb FT = 10%

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 \*Except\* 3-7: 2x3 SPF No.2 WEBS 2x4 SPF No.2

TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=140(LC 8) Max Uplift 8=-41(LC 8), 4=-54(LC 8), 5=-13(LC 8) Max Grav 8=347(LC 1), 4=97(LC 15), 5=55(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-311/67

#### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

3) \* 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.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 5.

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



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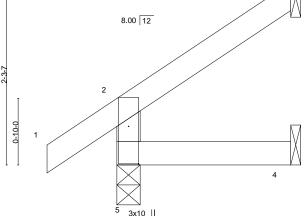
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**MiTek** 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type				Qty	Ply	Lot 80 RR
						,	Ĺ	144597148
210302	J18	Jack-Open				2	1	
								Job Reference (optional)
Wheeler Lumber, Wav	erly, KS - 66871,						8.430 s No	ov 30 2020 MiTek Industries, Inc. Fri Jan 29 12:48:23 2021 Page 1
					ID:2ncXp	lsxOfbjlB6	I7Q?gPMz	rYWU-PtSOumYBSLxgfg3AmMKh?woH0PAZwPYzAhTPJGzqUq6
		L	-0-10-8		2	2-2-2		
		1	0-10-8	1	2	2-2-2		
								Scale = 1:14.4
	T						3	
				8.00	2	/		



2-2-2	1
2-2-2	7

LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.0	0 5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.0	0 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.0	0 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.0	0 4-5	>999	240	Weight: 7 lb	FT = 10%
			DRAGING					

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

Plate Offsets (X,Y)-- [5:0-5-10,0-1-8]

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-2-2 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=69(LC 8) Max Uplift 5=-10(LC 8), 3=-45(LC 8), 4=-2(LC 8)

Max Grav 5=179(LC 1), 3=60(LC 15), 4=36(LC 3)

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

#### NOTES-

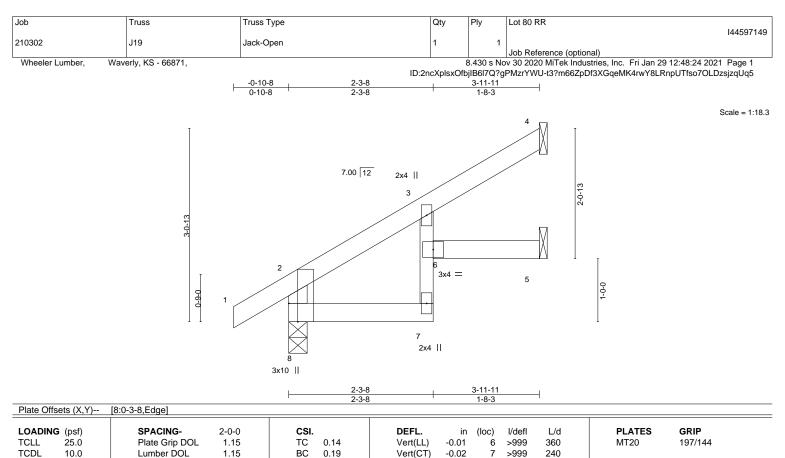
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) Wind(LL)	0.01 0.02	5 7	n/a >999	n/a 240	Weight: 13 lb	FT = 10%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF 3-7: 2x			BRACING- TOP CHOR BOT CHOR		except of	end vert	icals.	rectly applied or 3-11-1 or 10-0-0 oc bracing.	1 oc purlins,

WEBS 2x4 SPF No.2

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=103(LC 8) Max Uplift 8=-19(LC 8), 4=-52(LC 8), 5=-15(LC 8)

Max Grav 8=251(LC 1), 4=106(LC 15), 5=64(LC 15)

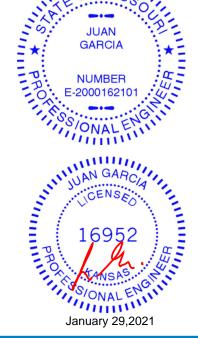
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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 3) will fit between the bottom chord and any other members.

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

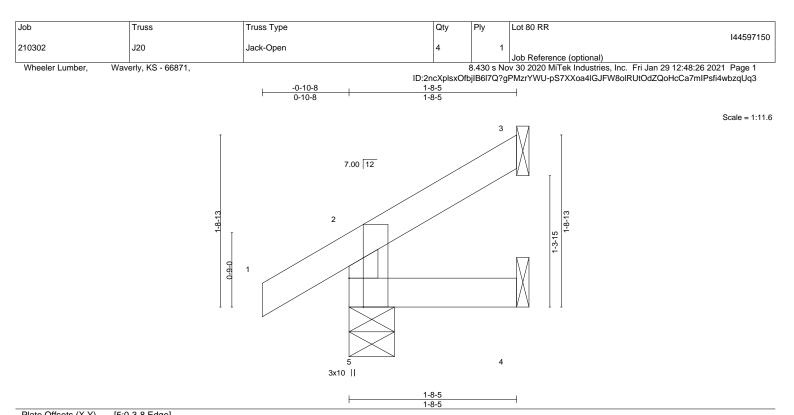
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. ir	ı (loc)	l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00	5	>999	360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00	5	>999	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00	5	>999	240	Weight: 6 lb FT = 10%

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-8-5 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS. (size) 5=0-5-8, 3=Mechanical, 4=Mechanical

Max Horz 5=50(LC 8) Max Uplift 5=-19(LC 8), 3=-30(LC 8)

Max Grav 5=164(LC 1), 3=40(LC 15), 4=27(LC 3)

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

#### NOTES-

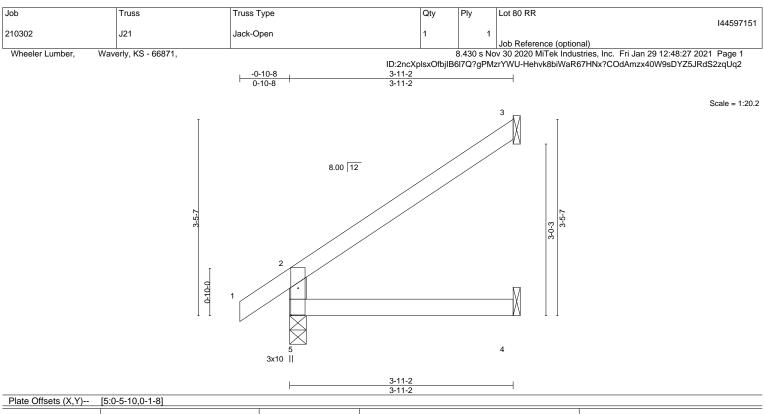
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	k-R	Wind(LL)	0.01	4-5	>999	240	Weight: 12 lb	FT = 10%
		1		1								

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD Structur except e BOT CHORD Rigid ce

Structural wood sheathing directly applied or 3-11-2 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=116(LC 8) Max Uplift 5=-7(LC 8), 3=-82(LC 8)

Max Grav 5=249(LC 1), 3=122(LC 15), 4=70(LC 3)

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

#### NOTES-

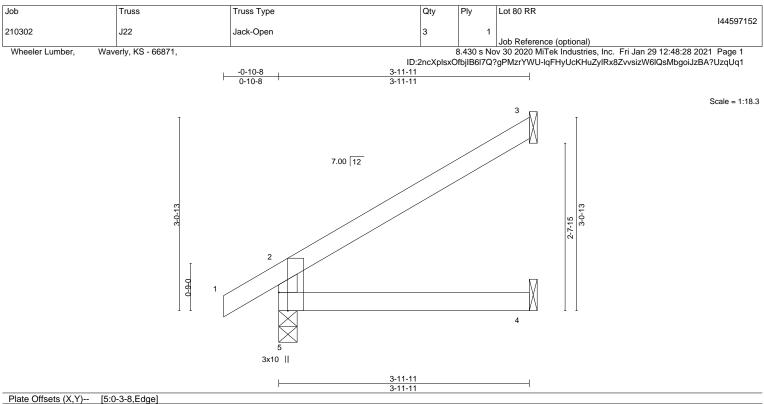
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0.0	1 4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.0	2 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.0	1 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.0	1 4-5	>999	240	Weight: 11 lb	FT = 10%
LUMBER-			BRACING-					

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=103(LC 8) Max Uplift 5=-19(LC 8), 3=-73(LC 8)

Max Grav 5=251(LC 1), 3=122(LC 15), 4=71(LC 3)

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

#### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

3) \* 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.

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

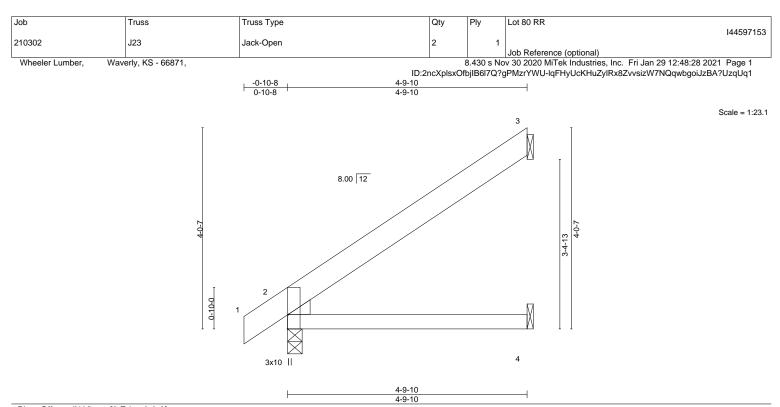
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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LOADING (p	psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.03	2-4	>999	360	MT20	197/144
TCDL 1	0.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 1	0.0	Code IRC2018/TF	912014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 19 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

#### LUMBER-

TOP CHORD 2x6 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE Left: 2x4 SPF No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=152(LC 8) Max Uplift 3=-120(LC 8), 2=-8(LC 8) Max Grav 3=165(LC 15), 2=286(LC 1), 4=92(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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 3) will fit between the bottom chord and any other members.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 3 = 120
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



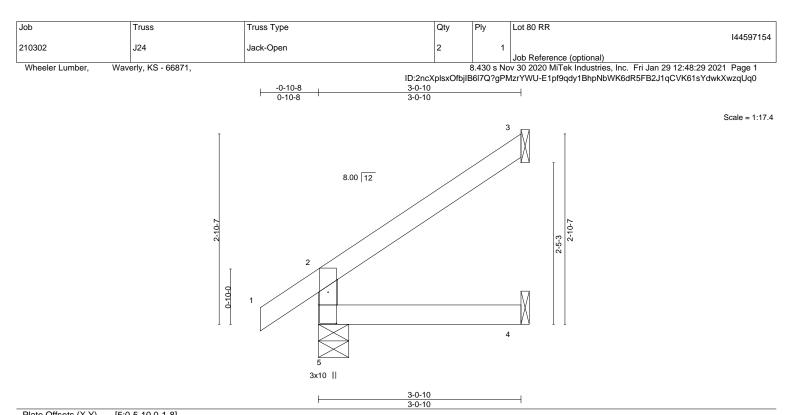
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Structural wood sheathing directly applied or 4-9-10 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.







LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) -0.	.00 4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.	.01 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.	.01 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0	.01 4-5	>999	240	Weight: 10 lb	FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-0-10 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS. (size) 5=0-5-8, 3=Mechanical, 4=Mechanical

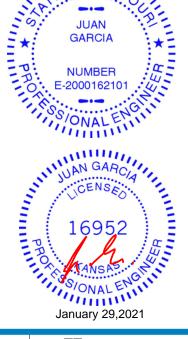
Max Horz 5=93(LC 8) Max Uplift 5=-8(LC 8), 3=-64(LC 8)

Max Grav 5=212(LC 1), 3=92(LC 15), 4=53(LC 3)

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

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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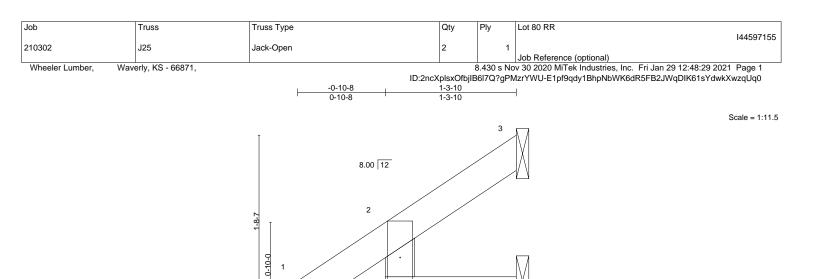


Plate Offsets (X,Y)	[5:0-5-10,0-1-8]					
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (lo	oc) l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) 0.00	, 5 >999	360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00	5 >999	180	
3CLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3 n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00	5 >999	240	Weight: 5 lb FT = 10%

TOP CHORD

BOT CHORD

3x10 ||

1-3-10 1-3-10 4

except end verticals.

Structural wood sheathing directly applied or 1-3-10 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

#### LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=46(LC 8)

Max Uplift 5=-13(LC 8), 3=-25(LC 8), 4=-4(LC 8) Max Grav 5=155(LC 1), 3=24(LC 15), 4=19(LC 3)

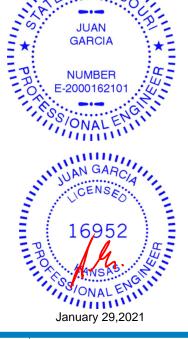
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

#### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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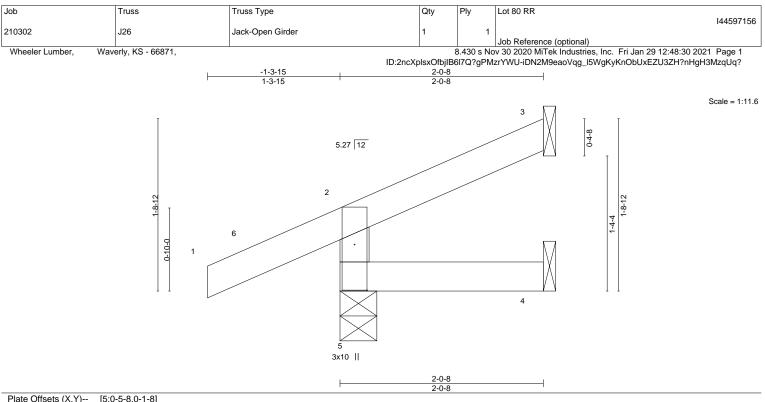
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES G	RIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) -0.00	5	>999	360	MT20 1	97/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00	5	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00	5	>999	240	Weight: 7 lb	FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-0-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 5=0-4-7, 3=Mechanical, 4=Mechanical

Max Horz 5=63(LC 7) Max Uplift 5=-112(LC 12), 3=-22(LC 12)

Max Grav 5=70(LC 1), 3=25(LC 1), 4=26(LC 3)

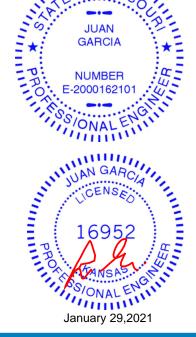
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=112.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 9 lb down and 3 lb up at -1-3-15, and 9 lb down and 3 lb up at -1-3-15 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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

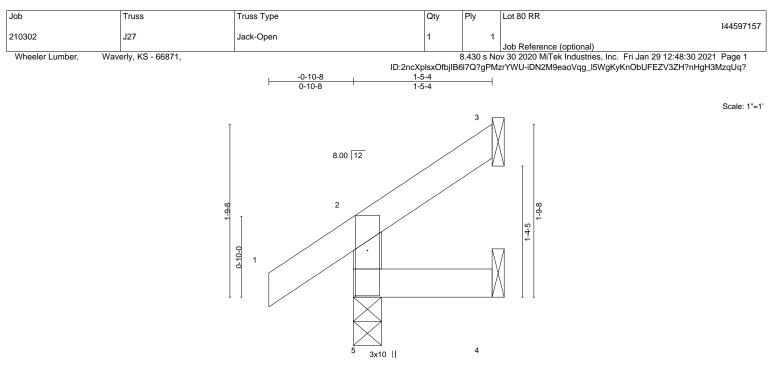
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
  - Concentrated Loads (lb)
  - Vert: 1=-13(F=-7, B=-7)
  - Trapezoidal Loads (plf)
    - Vert: 1=-0(F=35, B=35)-to-6=-9(F=30, B=30), 6=0(F=35, B=35)-to-2=-17(F=27, B=27), 2=-17(F=27, B=27)-to-3=-49(F=10, B=10), 5=-5(F=8, B=8)-to-4=-14(F=3, B=3)



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BOT CHORD

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

OADING         (psf)           "CLL         25.0           "CDL         10.0           3CLL         0.0         *           3CDL         10.0	Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15 YES 2014	CSI. TC BC WB Matrix	0.07 0.02 0.00 x-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 -0.00	(loc) 5 5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 5 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SP	F No.2				BRACING- TOP CHOF		Structu	iral wood	sheathing di	irectly applied or 1-5-	4 oc purlins,

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

Plate Offsets (X V)-- [5:0-5-10.0-1-8]

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=50(LC 8) Max Uplift 5=-12(LC 8), 3=-29(LC 8), 4=-4(LC 8)

Max Grav 5=158(LC 1), 3=30(LC 15), 4=22(LC 3)

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

#### NOTES-

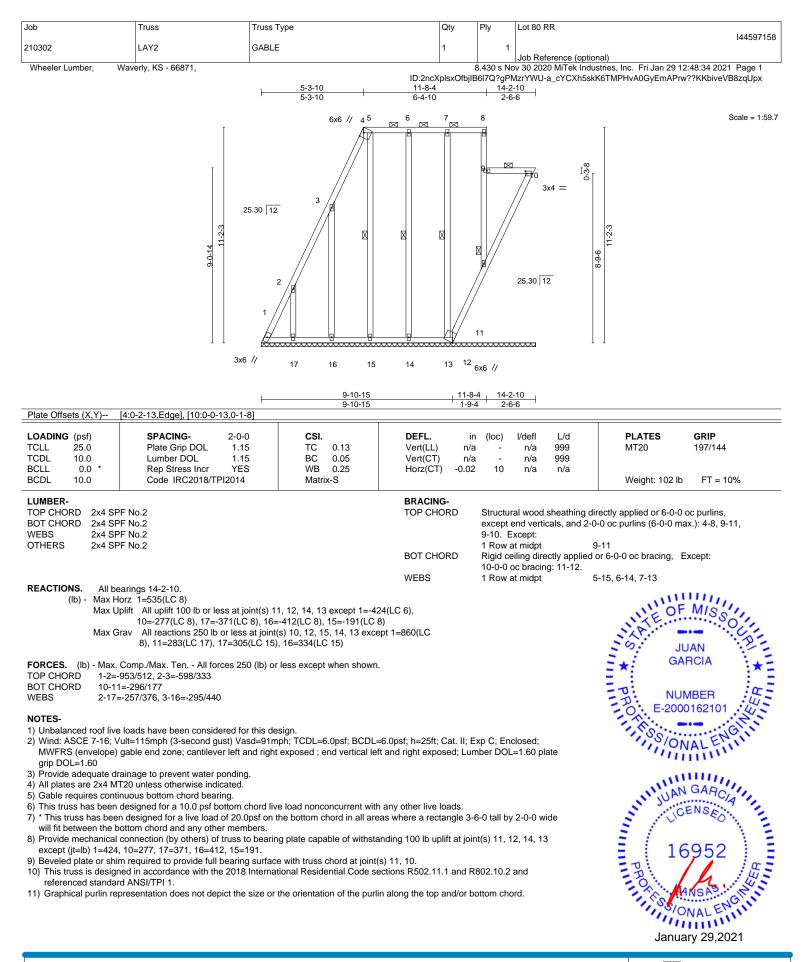
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



F MIS

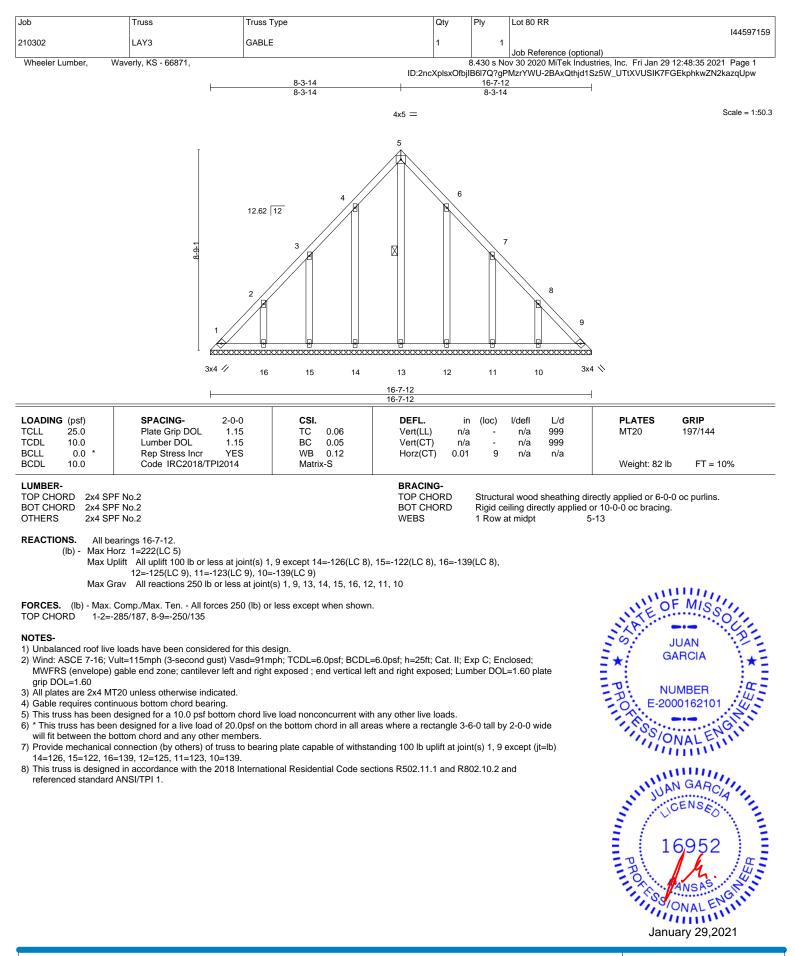
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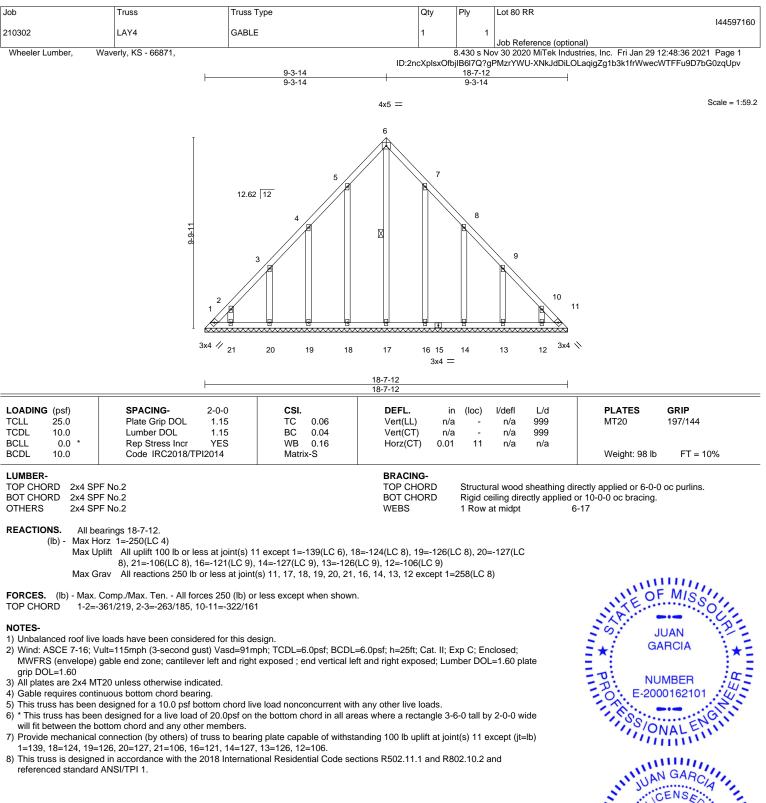


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 sand truss system. See **MSIVTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

### 16023 Swingley Ridge Rd Chesterfield, MO 63017



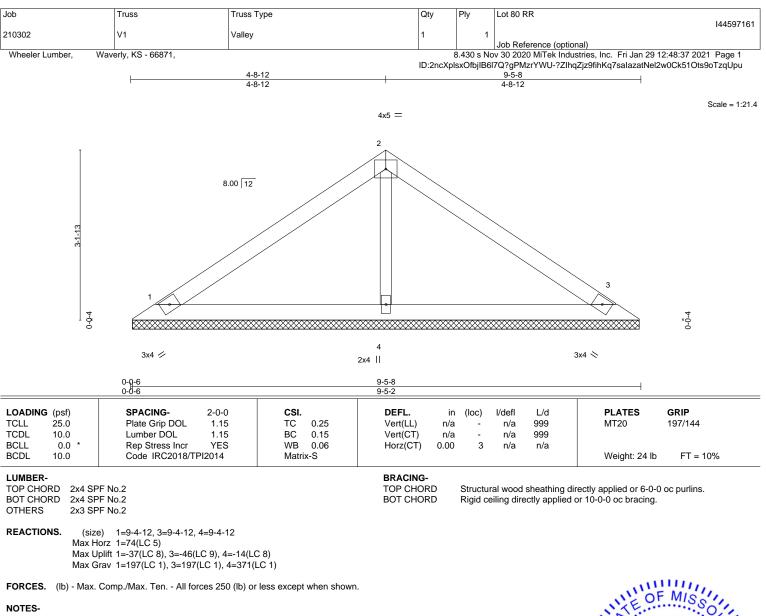






January 29,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



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

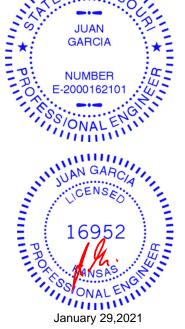
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

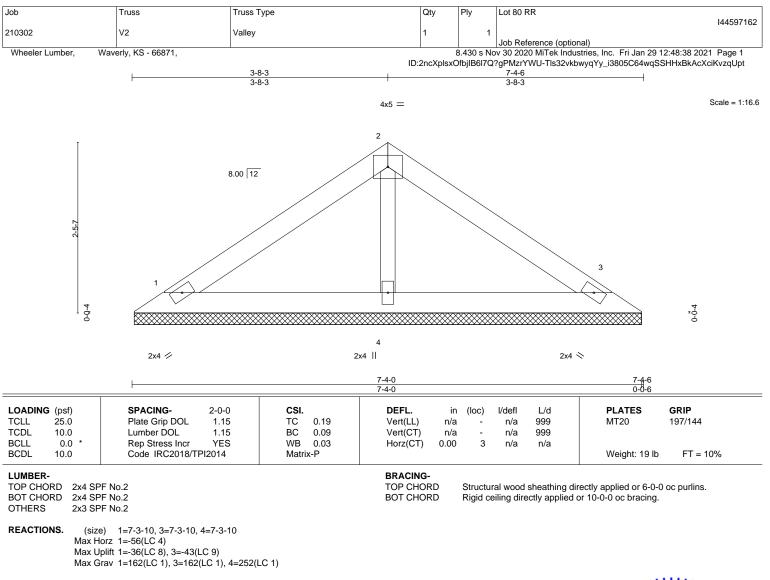
5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 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.



JUAN





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

#### NOTES-

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

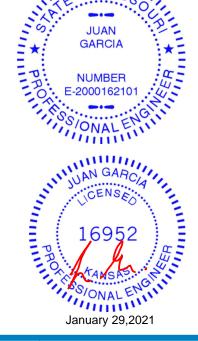
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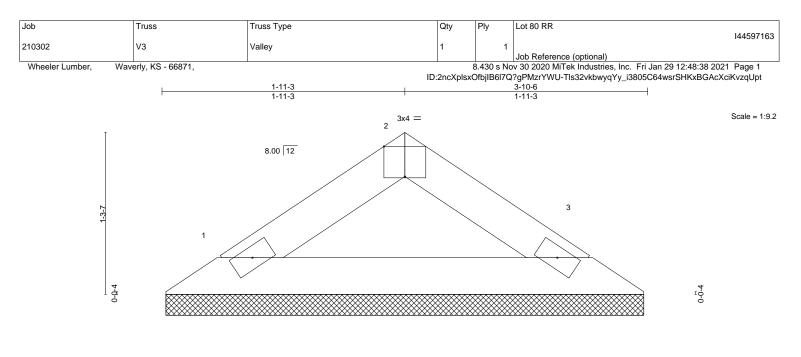
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MITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017



2x4 💋

2x4 📎

Structural wood sheathing directly applied or 3-10-6 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

		3-10-0 3-10-0						<u> </u>			
Plate Offsets (X,Y)	[2:0-2-0,Edge]				0 10 0						
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/T	PI2014	Matri	x-P						Weight: 8 lb	FT = 10%

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

REACTIONS. 1=3-9-10, 3=3-9-10 (size) Max Horz 1=-25(LC 4) Max Uplift 1=-15(LC 8), 3=-15(LC 9) Max Grav 1=131(LC 1), 3=131(LC 1)

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

#### NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

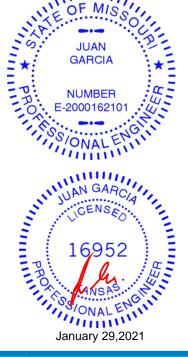
3) Gable requires continuous bottom chord bearing.

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

\* 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 5) will fit between the bottom chord and any other members.

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