



MiTek USA, Inc.

314-434-1200

16023 Swinglev Ridge Rd Chesterfield, MO 63017

RE: 210321 Lot 103 MN

MiTek

Site Information:

Customer: Project Name: 210321 Lot/Block: Address: City:

Model: Subdivision: State:

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 87 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|----------|-----|-----------|------------|----------|
| 1 | 145097618 | A1 | 3/9/2021 | 21 | 145097638 | C3 | 3/9/2021 |
| 2 | 145097619 | A2 | 3/9/2021 | 22 | 145097639 | C4 | 3/9/2021 |
| 3 | 145097620 | A3 | 3/9/2021 | 23 | 145097640 | C5 | 3/9/2021 |
| 4 | I45097621 | A4 | 3/9/2021 | 24 | I45097641 | D1 | 3/9/2021 |
| 5 | 145097622 | B1 | 3/9/2021 | 25 | 145097642 | D2 | 3/9/2021 |
| 6 | 145097623 | B2 | 3/9/2021 | 26 | 145097643 | D3 | 3/9/2021 |
| 7 | 145097624 | B3 | 3/9/2021 | 27 | 145097644 | D4 | 3/9/2021 |
| 8 | 145097625 | B4 | 3/9/2021 | 28 | 145097645 | D5 | 3/9/2021 |
| 9 | 145097626 | B5 | 3/9/2021 | 29 | 145097646 | D6 | 3/9/2021 |
| 10 | 145097627 | B6 | 3/9/2021 | 30 | 145097647 | D7 | 3/9/2021 |
| 11 | 145097628 | B7 | 3/9/2021 | 31 | 145097648 | D8 | 3/9/2021 |
| 12 | 145097629 | B8 | 3/9/2021 | 32 | 145097649 | D9 | 3/9/2021 |
| 13 | 145097630 | B9 | 3/9/2021 | 33 | 145097650 | E5 | 3/9/2021 |
| 14 | 145097631 | B10 | 3/9/2021 | 34 | 145097651 | E6 | 3/9/2021 |
| 15 | 145097632 | B11 | 3/9/2021 | 35 | 145097652 | E7 | 3/9/2021 |
| 16 | 145097633 | B12 | 3/9/2021 | 36 | 145097653 | E8 | 3/9/2021 |
| 17 | 145097634 | B13 | 3/9/2021 | 37 | 145097654 | J1 | 3/9/2021 |
| 18 | 145097635 | B14 | 3/9/2021 | 38 | 145097655 | J2 | 3/9/2021 |
| 19 | 145097636 | C1 | 3/9/2021 | 39 | 145097656 | J3 | 3/9/2021 |
| 20 | 145097637 | C2 | 3/9/2021 | 40 | 145097657 | J4 | 3/9/2021 |
| - | | - | | | | - | |

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.





RE: 210321 - Lot 103 MN

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

Site Information:

| Project Cu Lot/Block: Address: City, Cour | ustomer: Proj | ect Name: 210 |)321 | Subdivi State: | ision: | | |
|--|------------------|---|--|---------------------------------|---------------------------------|-------------------------------|------------------------------|
| City, Cour No. Sea 41 1450 42 1450 43 1450 44 1450 45 1450 46 1450 47 1450 48 1450 50 1450 51 1450 52 1450 53 1450 54 1450 55 1450 56 1450 56 1450 57 1450 58 1450 60 1450 61 1450 61 1450 62 1450 63 1450 64 1450 63 1450 64 1450 66 1450 67 1450 67 1450 67 1450 70 1450 71 1450 71 1450 71 1450 72 1450 73 1450 74 1450 74 1450 75 1450 76 1450 77 1450 76 1450 77 1450 78 1450 79 1450 70 1450 71 1450 | | Truss Name J5 J6 J7 J8 J9 J10 J11 J12 J13 J14 J15 J16 J17 J18 J19 J20A J21 J22A J21 J22A J21 J22A J23 J24 J25 J26 J27 J28 J29 J20 J27 J28 J29 J30 J31 J32 J33 J34 J35 J36 LAY1 LAY3 LAY4 LAY5 LAY6 LAY7 LAY8 V1 V2 V3 | Date 3/9/2021 | State: No. 85 86 87 | Seal# 145097703 145097704 | Truss Name V8 V9 V10 | Date 3/9/2021 3/9/2021 |
| | 097700 097701 | V4 V5 | 3/9/2021 3/9/2021 | | | | |



RE: 210321 Lot 103 MN

Site Information:

Customer: Project Name: 210321 Lot/Block: Address: City:

Model: Subdivision: State:

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 87 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|----------|-----|-----------|------------|----------|
| 1 | 145097618 | A1 | 3/9/2021 | 21 | 145097638 | C3 | 3/9/2021 |
| 2 | 145097619 | A2 | 3/9/2021 | 22 | 145097639 | C4 | 3/9/2021 |
| 3 | 145097620 | A3 | 3/9/2021 | 23 | 145097640 | C5 | 3/9/2021 |
| 4 | 145097621 | A4 | 3/9/2021 | 24 | I45097641 | D1 | 3/9/2021 |
| 5 | 145097622 | B1 | 3/9/2021 | 25 | 145097642 | D2 | 3/9/2021 |
| 6 | 145097623 | B2 | 3/9/2021 | 26 | 145097643 | D3 | 3/9/2021 |
| 7 | 145097624 | B3 | 3/9/2021 | 27 | 145097644 | D4 | 3/9/2021 |
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| 9 | 145097626 | B5 | 3/9/2021 | 29 | 145097646 | D6 | 3/9/2021 |
| 10 | 145097627 | B6 | 3/9/2021 | 30 | 145097647 | D7 | 3/9/2021 |
| 11 | 145097628 | B7 | 3/9/2021 | 31 | 145097648 | D8 | 3/9/2021 |
| 12 | 145097629 | B8 | 3/9/2021 | 32 | 145097649 | D9 | 3/9/2021 |
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| 15 | 145097632 | B11 | 3/9/2021 | 35 | 145097652 | E7 | 3/9/2021 |
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| 17 | 145097634 | B13 | 3/9/2021 | 37 | 145097654 | J1 | 3/9/2021 |
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| 19 | 145097636 | C1 | 3/9/2021 | 39 | 145097656 | J3 | 3/9/2021 |
| 20 | 145097637 | C2 | 3/9/2021 | 40 | 145097657 | J4 | 3/9/2021 |
| | | | | | | | |

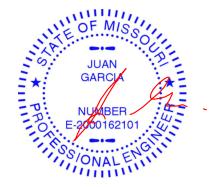
The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

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 09, 2021

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

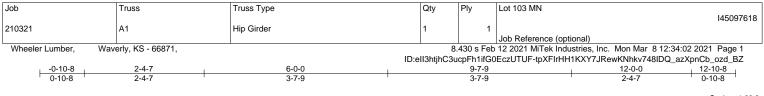


RE: 210321 - Lot 103 MN

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

Site Information:

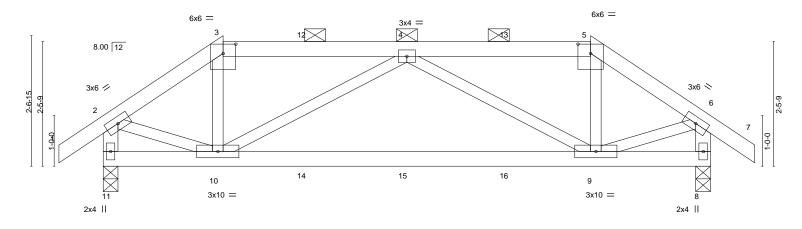
| Project Cu Lot/Block: Address: City, Cour | ustomer: Proj | ect Name: 210 |)321 | Subdivi State: | ision: | | |
|--|------------------|---|--|---------------------------------|---------------------------------|-------------------------------|------------------------------|
| City, Cour No. Sea 41 1450 42 1450 43 1450 44 1450 45 1450 46 1450 47 1450 48 1450 50 1450 51 1450 52 1450 53 1450 54 1450 55 1450 56 1450 56 1450 57 1450 58 1450 60 1450 61 1450 61 1450 62 1450 63 1450 64 1450 63 1450 64 1450 66 1450 66 1450 67 1450 67 1450 70 1450 71 1450 71 1450 71 1450 72 1450 73 1450 74 1450 74 1450 75 1450 76 1450 77 1450 76 1450 77 1450 78 1450 79 1450 70 1450 71 1450 | | Truss Name J5 J6 J7 J8 J9 J10 J11 J12 J13 J14 J15 J16 J17 J18 J19 J20A J21 J22A J21 J22A J21 J22A J23 J24 J25 J26 J27 J28 J29 J20 J27 J28 J29 J30 J31 J32 J33 J34 J35 J36 LAY1 LAY3 LAY4 LAY5 LAY6 LAY7 LAY8 V1 V2 V3 | Date 3/9/2021 | State: No. 85 86 87 | Seal# 145097703 145097704 | Truss Name V8 V9 V10 | Date 3/9/2021 3/9/2021 |
| | 097700 097701 | V4 V5 | 3/9/2021 3/9/2021 | | | | |





March 9,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017



| ⊢ −− | 2-4-7 | | 9-7-9 | | | 12-0-0 | |
|---|---|--|---|---|-------------------|---|------------------------------------|
| Plate Offsets (X,Y) | 2-4-7 | | 7-3-2 | | | 2-4-7 | |
| 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 0.25 BC 0.63 WB 0.28 Matrix-S | Vert(LL) -0.09 Vert(CT) -0.20 Horz(CT) 0.01 | | 360 240 n/a | PLATES MT20 Weight: 46 lb | GRIP 197/144 FT = 10% |
| | | | BRACING- TOP CHORD BOT CHORD | except end ve | erticals, and 2-0 | rectly applied or 5-11)-0 oc purlins (6-0-0 n or 6-0-0 oc bracing. | |
| Max H Max U | e) 11=0-3-8, 8=0-3-8 lorz 11=85(LC 7) lplift 11=-195(LC 8), 8=-195(LC 9) irav 11=890(LC 1), 8=890(LC 1) | | | | | | F MISSIL |
| TOP CHORD 2-3=- 6-8=- BOT CHORD 9-10= WEBS 3-10= | Comp./Max. Ten All forces 250 (lb) of -959/177, 3-4=-757/160, 4-5=-757/160, 4 -931/165 =-326/1124 =-29/315, 4-9=-445/225, 5-9=-28/315, 2- =-445/225 | 5-6=-959/178, 2-11=-931/ | 165, | | | | |
| 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dr | 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 | nph; TCDL=6.0psf; BCDL= exposed ; end vertical let | ft and right exposed; Lui | | , | | MBER DO162101 |
| 5) * This truss has bee will fit between the b 6) Provide mechanical at joint 8. | n designed for a live load of 20.0psf on bottom chord and any other members. connection (by others) of truss to bearing | the bottom chord in all are | eas where a rectangle 3- anding 195 lb uplift at joi | nt 11 and 195 lb | | ALL DUA | N GARCIA |
| referenced standard 8) Graphical purlin rep 9) Hanger(s) or other c 4-0-0, and 90 lb dow 2-4-7, 39 lb down at The design/selection | ad in accordance with the 2018 Internati I ANSI/TPI 1. resentation does not depict the size or the connection device(s) shall be provided so whand 76 lb up at 6-0-0, and 90 lb down 4-0-0, 39 lb down at 6-0-0, and 39 lb c in of such connection device(s) is the res E(S) section, loads applied to the face of | ne orientation of the purlin ufficient to support concer n and 76 lb up at 8-0-0 or lown at 8-0-0, and 157 lb ponsibility of others. | along the top and/or bo ntrated load(s) 90 lb dow n top chord, and 157 lb o down and 87 lb up at 9 | ttom chord. n and 76 lb up a lown and 87 lb i | up at | PROTECT | 6952 |
| LOAD CASE(S) Stan | dard | | | | | CIIIO/0 | ONAL ENTIT |

Continued on page 2

| Job | Truss | Truss Type | Qty | Ply | Lot 103 MN | | |
|--|-------|------------|-----|-----|--------------------------|--|--|
| | | | | | 145097618 | | |
| 210321 | A1 | Hip Girder | 1 | 1 | | | |
| | | | | | Job Reference (optional) | | |
| Wheeler Lumber, Waverly, KS - 66871, 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:02 2021 Page 2 | | | | | | | |

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:02 2021 Page 2 ID:ell3htjhC3ucpFh1ifG0EczUTUF-tpXFIrHH1KXY7JRewKNhkv748IDQ_azXpnCb_ozd_BZ

LOAD CASE(S) Standard

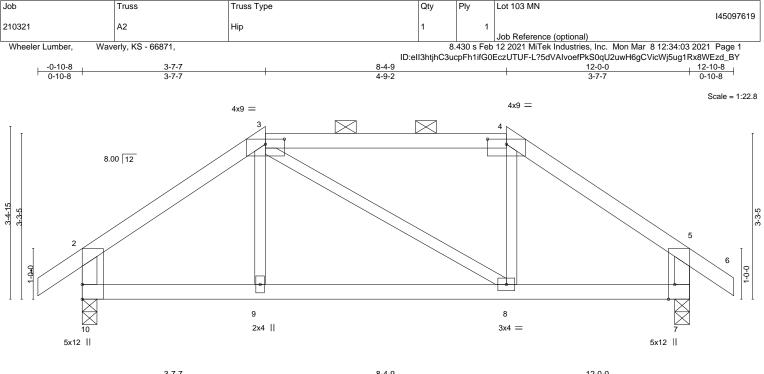
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 8-11=-20

Concentrated Loads (lb)

Vert: 10=-157(B) 4=-60(B) 9=-157(B) 12=-60(B) 13=-60(B) 14=-30(B) 15=-30(B) 16=-30(B)





| | L | 3-1-1 | | 8-4-9 | | | 12-0-0 | |
|--------------|----------|--|----------|-------------|----------|------------|---------------|----------|
| | I | 3-7-7 | I | 4-9-2 | | Ι | 3-7-7 | I |
| Plate Offset | ts (X,Y) | [3:0-4-8,0-1-3], [4:0-4-8,0-1-3], [7:0-3 | 8,Edge] | | | | | |
| | | | | | | | | |
| 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 0.40 | Vert(LL) -C | 0.05 8-9 | >999 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.38 | Vert(CT) -0 |).11 8-9 | >999 240 | | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.05 | Horz(CT) C | 0.01 7 | n/a n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | Matrix-S | Wind(LL) C | 0.03 8-9 | >999 240 | Weight: 42 lb | FT = 10% |
| | | | | | | | 5 | |

BRACING-TOP CHORD

BOT CHORD

LUMBER-

| TOP CHORD | 2x4 SPF No.2 |
|-----------|------------------------|
| BOT CHORD | 2x4 SPF No.2 |
| WEBS | 2x3 SPF No.2 *Except* |
| | 2-10,5-7: 2x4 SPF No.2 |

REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=-106(LC 6) Max Uplift 10=-65(LC 8), 7=-65(LC 9) Max Grav 10=598(LC 1), 7=598(LC 1)

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

2-3=-599/44, 3-4=-420/76, 4-5=-599/43, 2-10=-522/89, 5-7=-522/89 9-10=-69/421, 8-9=-70/420, 7-8=-20/421 TOP CHORD

BOT CHORD

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.

* 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 10 and 65 lb uplift at ioint 7.

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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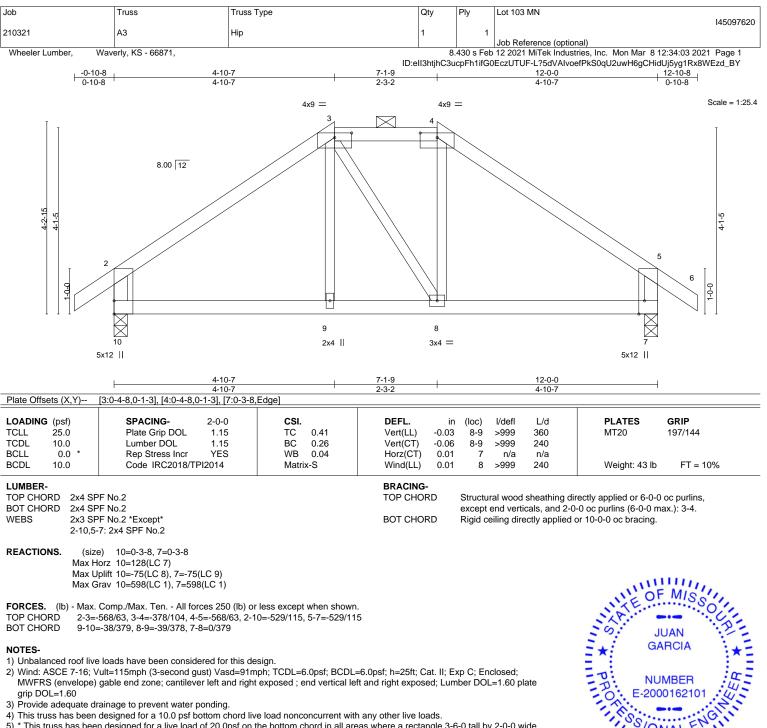
0

MIS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

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





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.

* 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 10 and 75 lb uplift at ioint 7.

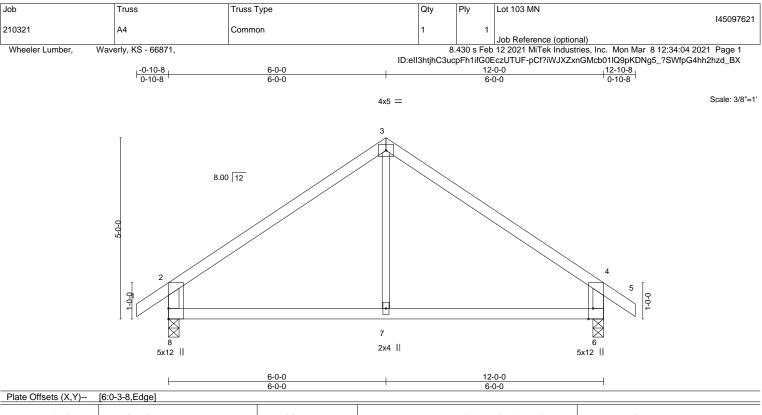
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



| 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 0.44 BC 0.24 WB 0.08 Matrix-R | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.03 -0.06 0.01 -0.03 | 6-7 6 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 38 lb | GRIP 197/144 FT = 10% |
|--|---|--|--|---------------------------------------|----------|---------------------------------------|---------------------------------|--|------------------------------------|
| LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF 3-7: 2x | BRACING- TOP CHOR BOT CHOR | | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. | | |) oc purlins, | | | |
| REACTIONS. (size) 8=0-3-8, 6=0-3-8 Max Horz 8=149(LC 7) Max Uplift 8=-81(LC 8), 6=-81(LC 9) Max Grav 8=598(LC 1), 6=598(LC 1) | | | | | | | | | |
| FORCES. (lb) - Max. TOP CHORD 2-3=- BOT CHORD 7-8=0 | | | | | | NALE. | UAN P | | |

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.

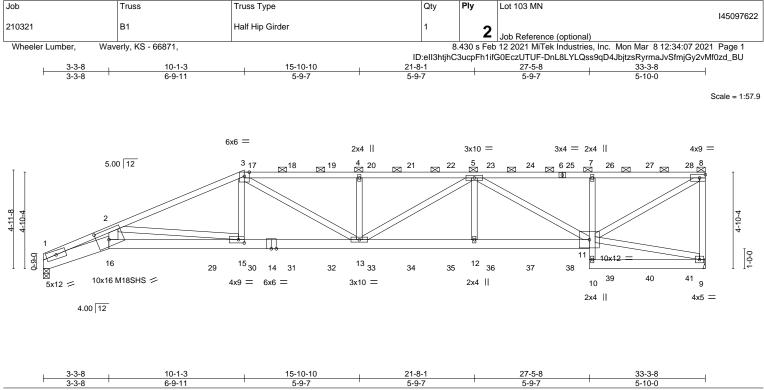
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 8 and 81 lb uplift at joint 6.

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.



GARCIA

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



| | 0-3-11 | 5-3-1 | 5-5-1 | | 5-5-1 | 5-10-0 | |
|--|--|---------------------------------------|------------------------------------|---|--------------------------|---|-----------------------------------|
| Plate Offsets (X,Y) | [15:0-3-8,0-2-0], [16:0-7-4,0-6-0] | | | | | | |
| 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 NO | CSI. TC 0.91 BC 0.70 WB 0.57 | Vert(LL) -0.30 | (loc) l/defl 15-16 >999 15-16 >729 9 n/a | L/d 360 240 n/a | PLATES MT20 M18SHS | GRIP 197/144 197/144 |
| BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-S | | 15-16 >999 | 240 | Weight: 366 lb | FT = 10% |
| BOT CHORD 2x6 SF 1-16: 2 WEBS 2x4 SF | 4 SPF 2100F 1.8E | 1 | BRACING- TOP CHORD BOT CHORD | except end ver | icals, and 2-0 | rectly applied or 4-5-4 (-0 oc purlins (3-9-10 m or 10-0-0 oc bracing. | |
| Max H Max U | e) 1=0-3-8, 9=Mechanical lorz 1=149(LC 26) Jplift 1=-481(LC 8), 9=-529(LC 5) brav 1=2733(LC 1), 9=2963(LC 1) | | | | | IN THE OF | MISSO |
| | Comp./Max. Ten All forces 250 (lb) o -11894/2299, 2-3=-7024/1434, 3-4=-713 | | | | | IL S | JAN P |
| | -11694/2299, 2-3=-7024/1434, 3-4=-713 -3969/768, 8-9=-2808/602 | 50/1414, 4-5=-7127/1413, | 5-7=-3965/757, | | | GAI | |
| | =-2242/10879, 15-16=-1979/9563, 13-1 | 5=-1387/6387, 12-13=-12 | 81/6527, | | | E | E 10 E |
| WEBS 2-16: | 2=-1281/6527, 7-11=-655/200 =-610/3172, 2-15=-3135/632, 3-15=-343 =-218/700, 5-12=0/531, 5-11=-2947/580 | , , | -13=-772/266, | | | | ABER (162101) |
| NOTES- | | | | | | 1.00 | G |
| Top chords connect Bottom chords conn | nnected together with 10d (0.131"x3") na ted as follows: 2x4 - 1 row at 0-4-0 oc. tected as follows: 2x8 - 2 rows staggere | d at 0-9-0 oc, 2x6 - 2 rows | | 2x4 - 1 row at 0-9 | -0 oc. | 11,5%/ON | IAL ENTIT |
| | Follows: 2x6 - 2 rows staggered at 0-9-0 ered equally applied to all plies, except i | | | ASE(S) section. | Plv to | | |
| ply connections hav | e been provided to distribute only loads | noted as (F) or (B), unles | | - (-) | , | Barren Lio | GARCIA |
| | e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91n | | -6 Opsf: h-25ft: Cat. II: F | vn C: Enclosed | | 1.0 | ENSE |
| | ; cantilever left and right exposed ; end | | | | .60 | - 3 / X | ~\ = |
| | rainage to prevent water ponding. | | | | | = 10 | 050 |
| | plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv | e load nonconcurrent wit | h anv other live loads. | | | 10 | 952 |
| 8) * This truss has bee | en designed for a live load of 20.0psf on | | | 6-0 tall by 2-0-0 v | vide | PH | |
| | pottom chord and any other members. r truss to truss connections. | | | | | | SAS AS |
| 10) Bearing at joint(s) | 1 considers parallel to grain value using | ANSI/TPI 1 angle to grain | n formula. Building desig | ner should verify | | 11550 | NALENGIN |
| capacity of bearing 11) Provide mechanica | g surface. al connection (by others) of truss to bear | ring plate capable of withs | tanding 481 lb uplift at io | int 1 and 529 lb (| uplift | 1111 | NAL |
| at joint 9. | | 01 | 5 · · · · · · · · · · | | | | rch 9,2021 |
| Continued on page 2 | | | | | | | |
| WARNING - Verify | design parameters and READ NOTES ON THIS AN | D INCLUDED MITEK REFERENC | E PAGE MII-7473 rev. 5/19/202 | 0 BEFORE USE. | | | |

Mitek* 16023 Swingley Ridge Rd Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Lot 103 MN |
|---------------------|-------------------|-----------------|-----|-----------|---|
| | | | | | 145097622 |
| 210321 | B1 | Half Hip Girder | 1 | 2 | |
| | | | | _ | Job Reference (optional) |
| Wheeler Lumber, Wav | erly, KS - 66871, | | 8. | 430 s Feb | 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:07 2021 Page 2 |

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:07 2021 Page 2 ID:eII3htjhC3ucpFh1ifG0EczUTUF-DnL8LYLQss9qD4JbjtzsRyrmaJvSfmjGy2vMf0zd_BU

NOTES-

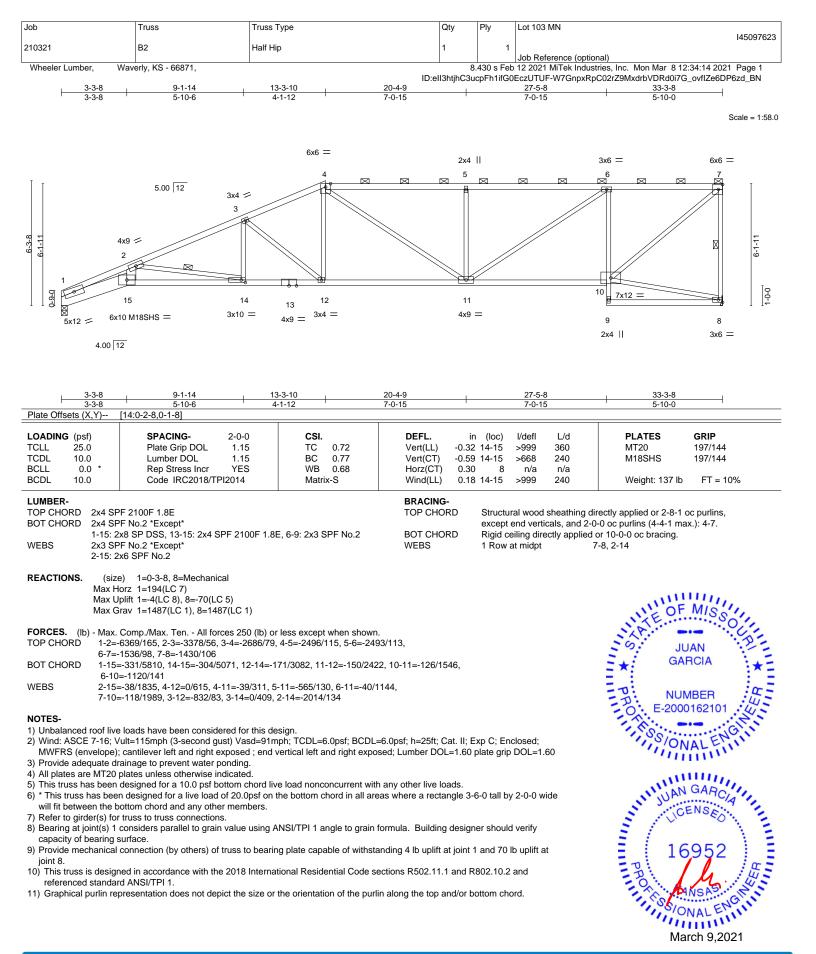
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 114 lb down and 78 lb up at 10-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 14-5-7, 116 lb down and 78 lb up at 14-5-7, 116 lb down and 78 lb up at 14-5-7, 116 lb down and 78 lb up at 14-5-7, 116 lb down and 78 lb up at 14-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 22-5-7, 116 lb down and 78 lb up at 22-5-7, 116 lb down and 94 lb up at 22-5-7, 116 lb down and 94 lb up at 23-5-7, and 129 lb down and 94 lb up at 23-5-7, 116 lb down and 94 lb up at 12-5-7, 116 lb down and 94 lb up at 22-5-7, 116 lb down and 94 lb up at 22-5-7, 116 lb down and 94 lb up at 22-5-7, 116 lb down and 94 l

LOAD CASE(S) Standard

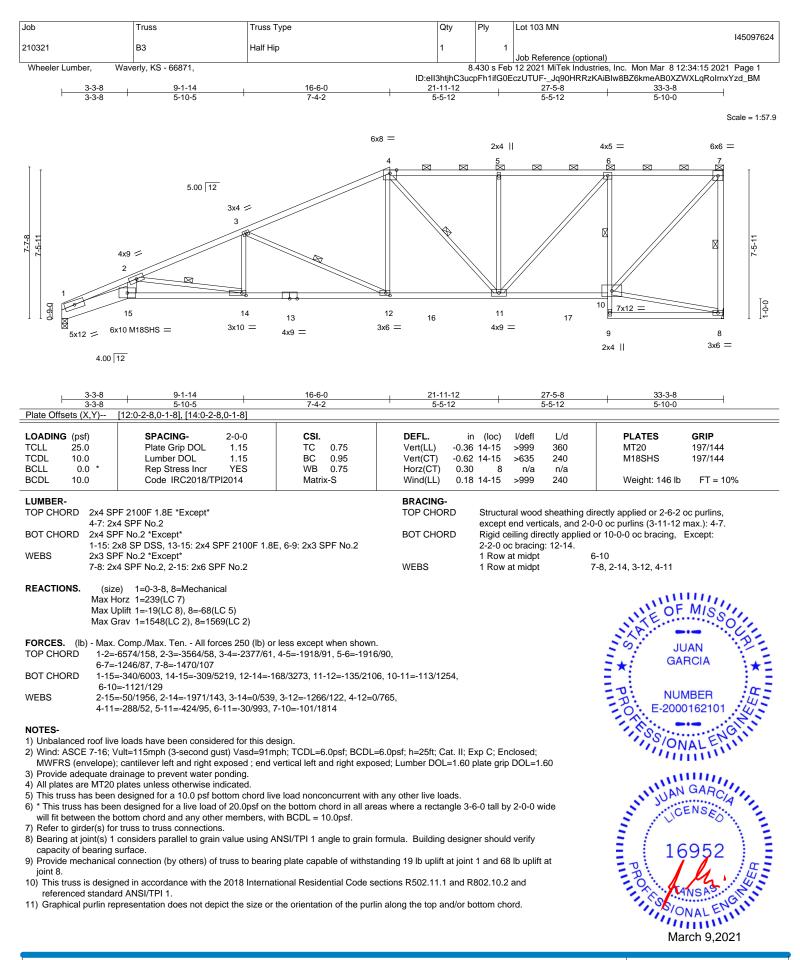
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

- Uniform Loads (plf)
- Vert: 1-3=-70, 3-8=-70, 1-16=-20, 11-16=-20, 9-10=-20 Concentrated Loads (lb)
 - Vert: 17=-93(F) 18=-93(F) 19=-93(F) 20=-93(F) 21=-93(F) 22=-93(F) 23=-100(F) 24=-24(F) 25=-24(F) 26=-114(F) 27=-114(F) 28=-125(F) 29=-731(F) 30=-71(F) 31=-71(F) 32=-71(F) 33=-71(F) 33=-71(F) 35=-71(F) 35=-7

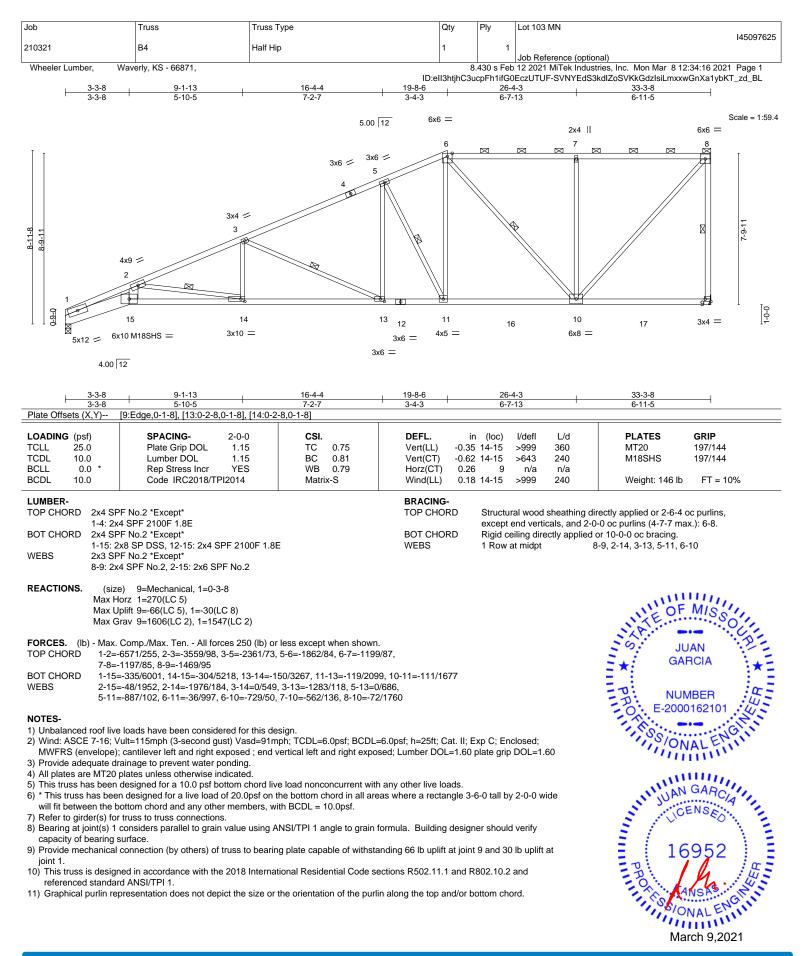




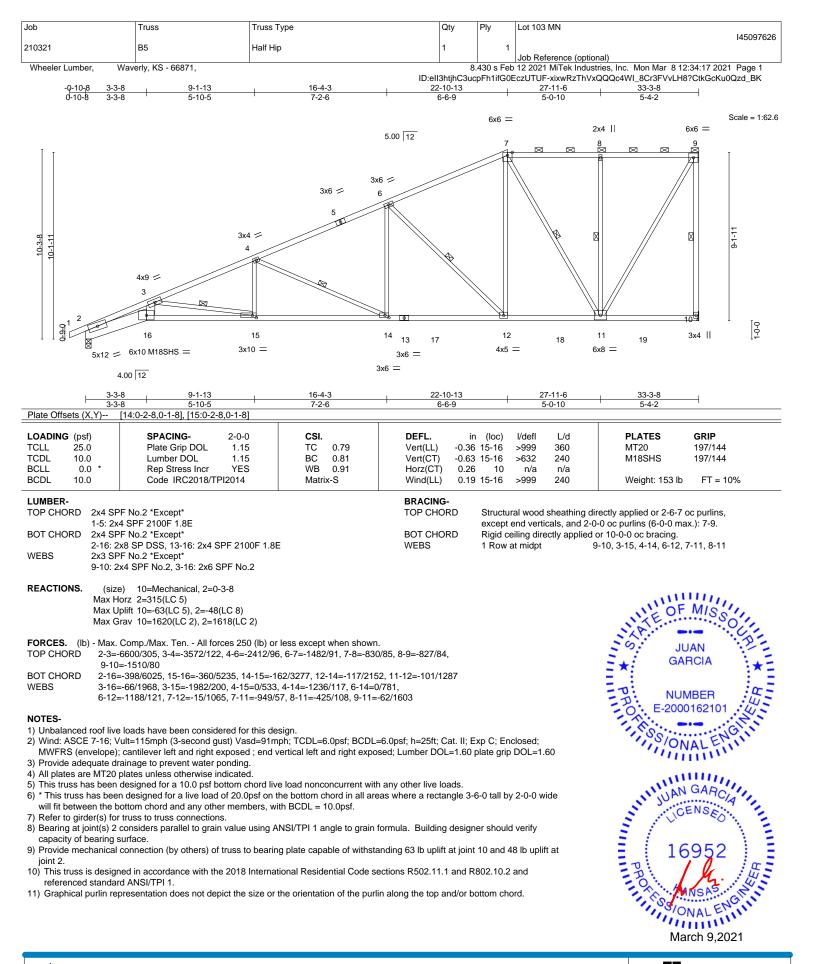




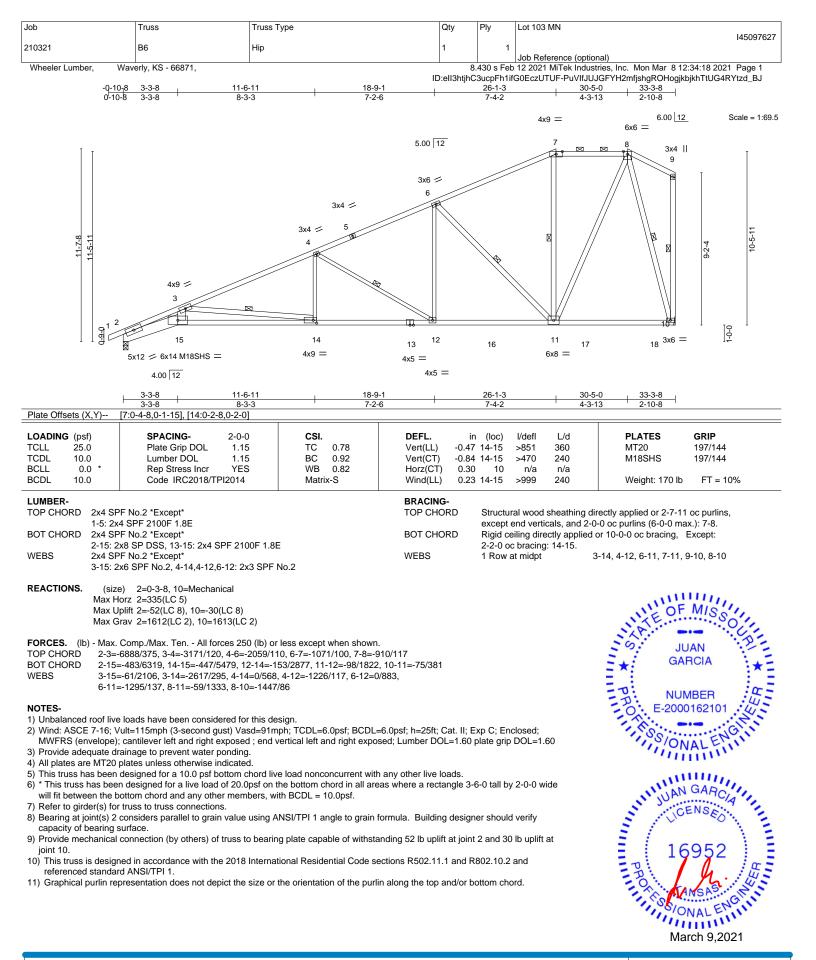
16023 Swingley Ridge Rd Chesterfield, MO 63017



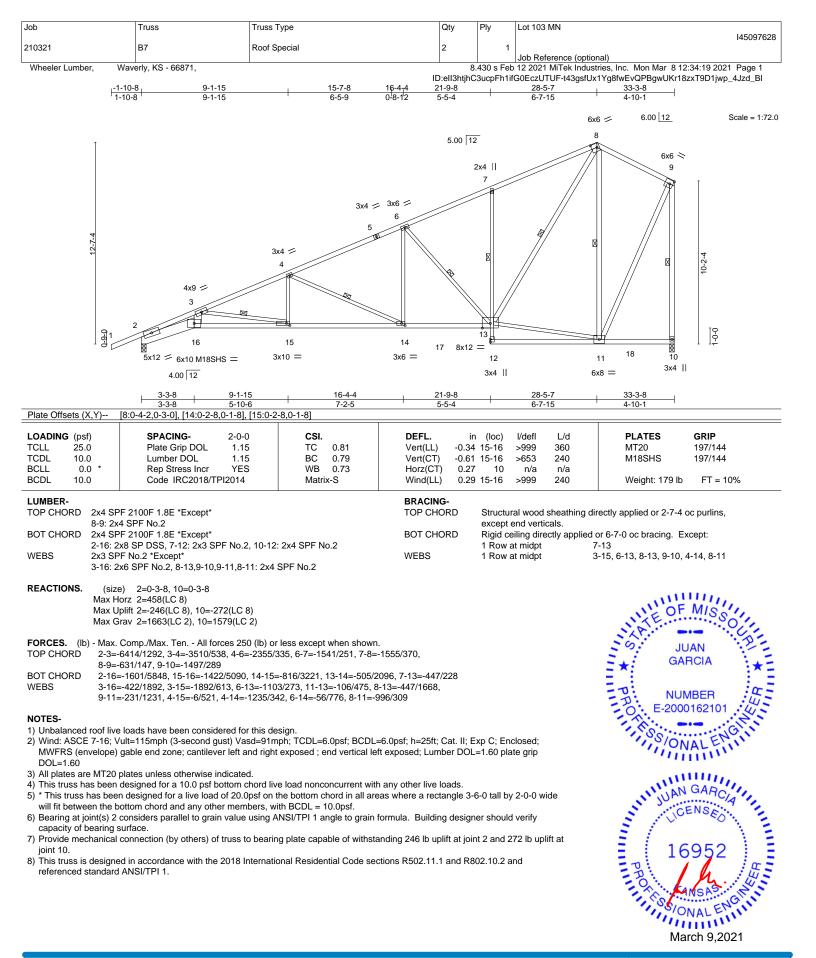
16023 Swingley Ridge Rd Chesterfield, MO 63017



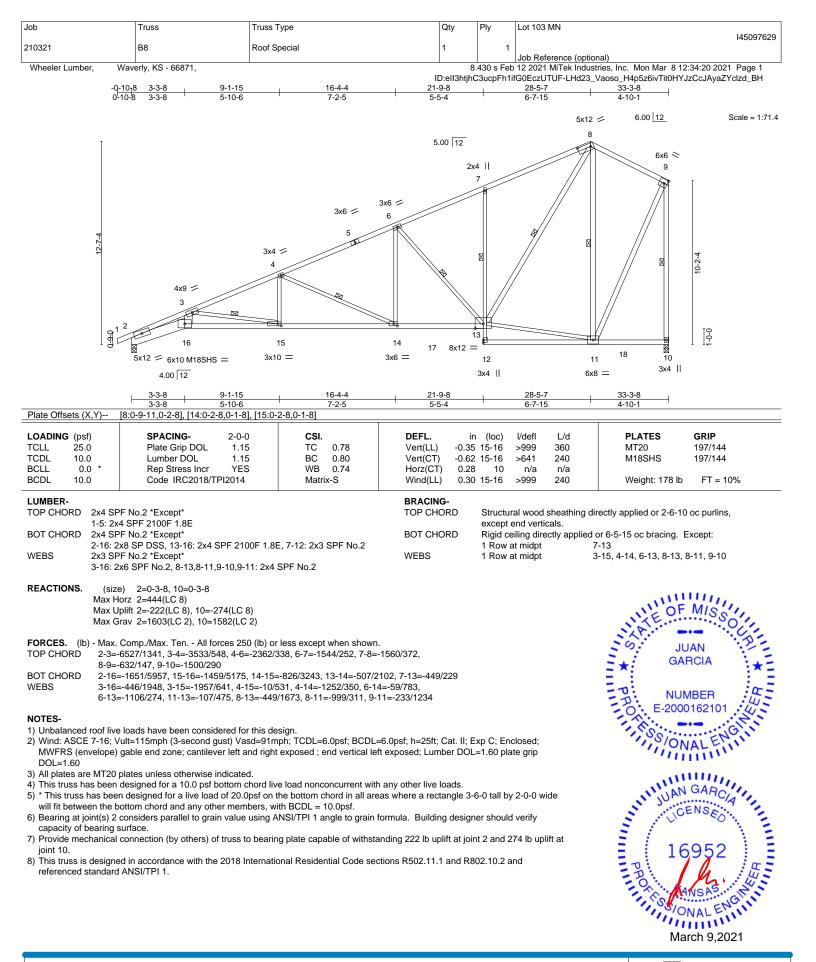
NITEK° 16023 Swingley Ridge Rd Chesterfield, MO 63017



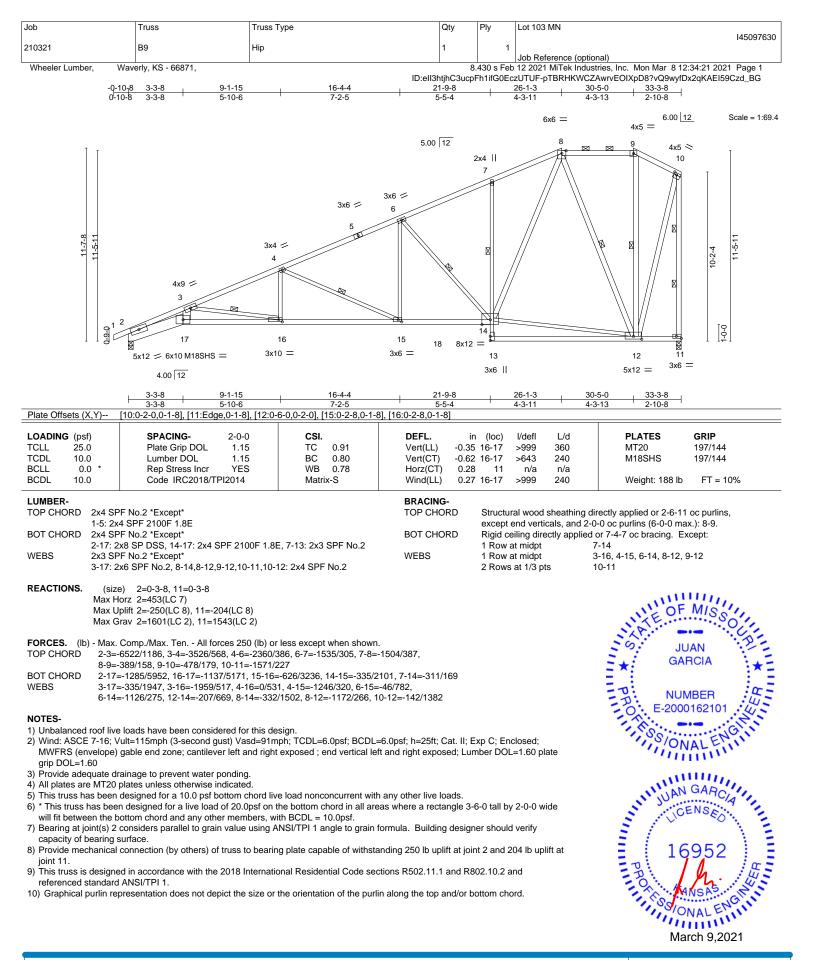
NITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017



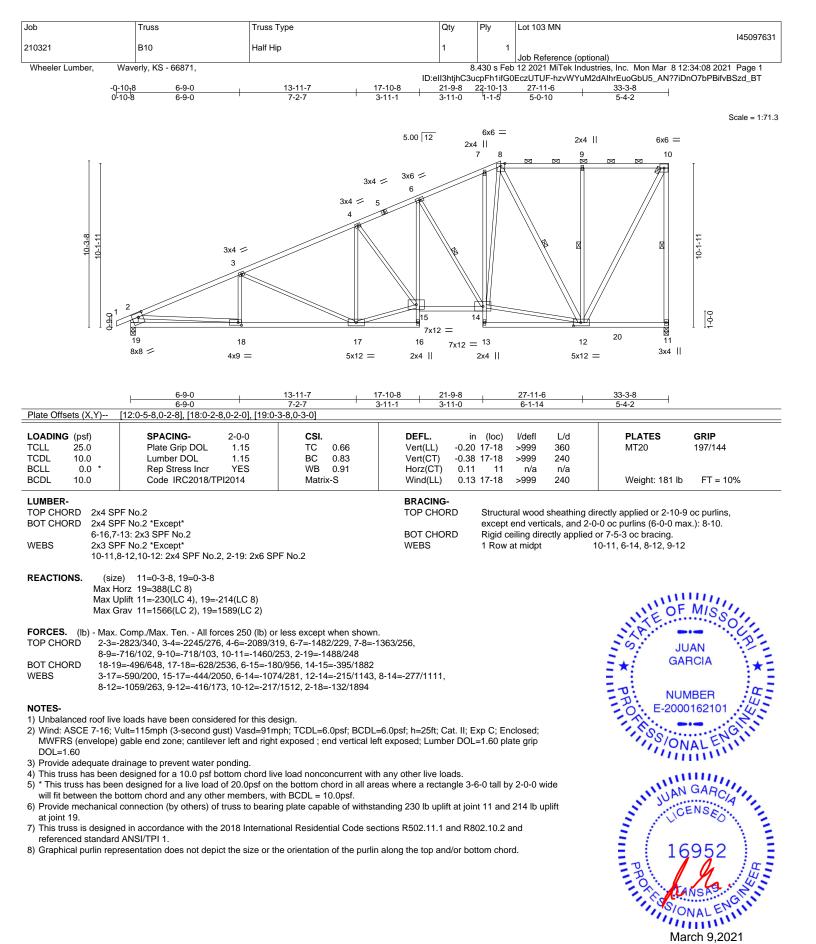




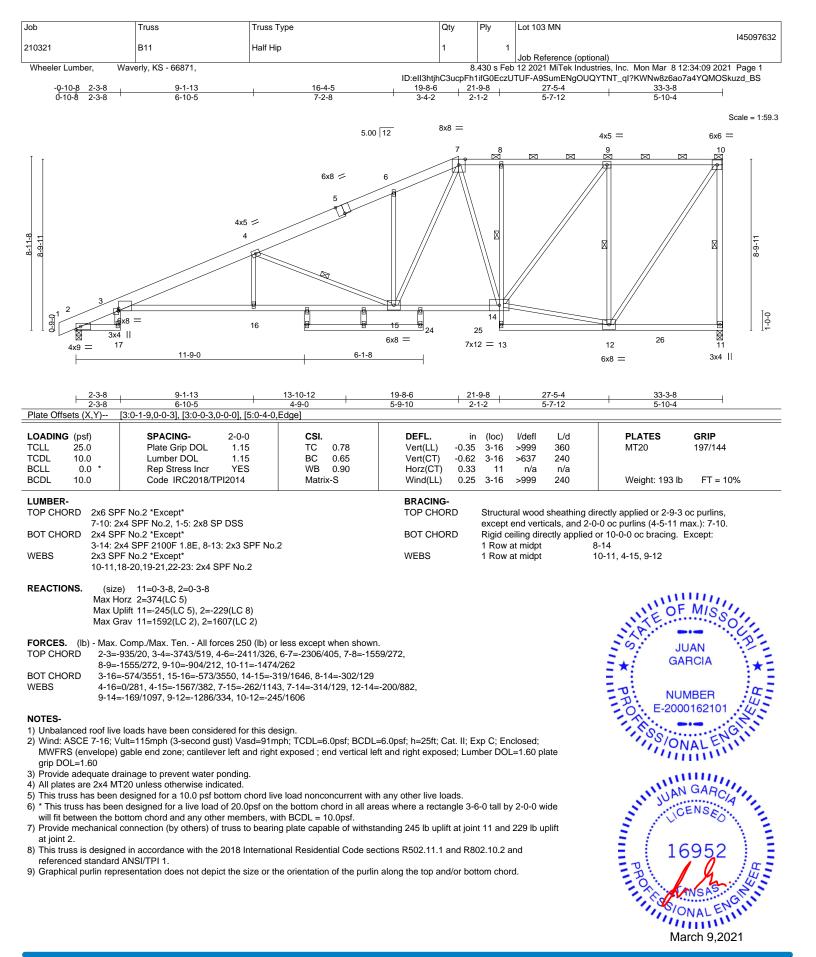
16023 Swingley Ridge Rd Chesterfield, MO 63017



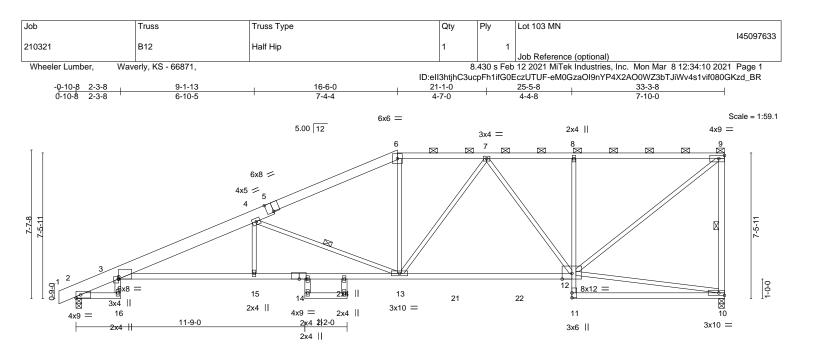








16023 Swingley Ridge Rd Chesterfield, MO 63017

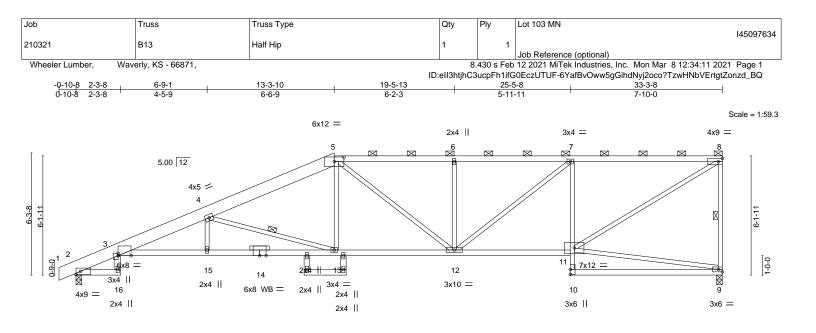


| | 2-3-8 | 9-1-13 | | 16-6-0 7-4-4 | | 25-5-8 | | | 33-3-8 | |
|--|---|---|--|--|---|--|------------------|---|--|------------------------|
| Plate Offset | | [3:0-1-9,0-0-3], [3:0-0-3,0 | -0-0]. [5:0-4-0. | | | 8-11-8 | | | 7-10-0 | |
| | (psf) 25.0 10.0 0.0 * | SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 YES | CSI. TC 0.78 BC 0.71 WB 0.92 | | in (loc -0.36 12-13 -0.64 12-13 0.34 10 | 3 >999 3 >621 | L/d 360 240 n/a | PLATES MT20 | GRIP 197/144 |
| | 10.0 | Code IRC2018/TF | | Matrix-S | | 0.23 3-15 | | 240 | Weight: 164 lb | FT = 10% |
| LUMBER- TOP CHOR BOT CHOR WEBS | 6-9: 2x RD 2x4 SF 3-14,12 2x3 SF | PF No.2 *Except* 44 SPF 2100F 1.8E, 1-5: 2 PF No.2 *Except* 2-14: 2x4 SPF 2100F 1.8E PF No.2 *Except* 7-19,18-20: 2x4 SPF No.2 | E, 8-11: 2x3 SF | PF No.2 | BRACING- TOP CHORE BOT CHORE WEBS | exce D Rigid 6-0-0 | pt end vertion | cals, and 2-0 ctly applied : 10-11. | irectly applied or 2-8-14 D-0 oc purlins (5-2-4 ma or 10-0-0 oc bracing, 1 9-10, 4-13 | x.): 6-9. |
| REACTION | Max H Max U | e) 10=0-3-8, 2=0-3-8 lorz 2=315(LC 5) Jplift 10=-255(LC 5), 2=-2 ⁻ Grav 10=1557(LC 2), 2=16 | | | | | | | INTE OF | MISSO |
| FORCES. TOP CHOR | RD 2-3=- | Comp./Max. Ten All for -899/39, 3-4=-3678/455, 4 -1537/293, 9-10=-1429/30 | -6=-2413/318, | | | | | | | |
| BOT CHOR WEBS | 4-15 | =-551/3481, 13-15=-550/3 =0/264, 4-13=-1475/389, 6 =-339/1952 | , | , | 20, | | | | PP. NUM E-2000 | ABER 44 |
| 2) Wind: AS MWFRS | SCE 7-16; \ (envelope) | e loads have been conside /ult=115mph (3-second gu gable end zone; cantileve | ist) Vasd=91m | ph; TCDL=6.0psf; BCDL= | | | | ate | AN SSION | ALENGINI |
| 4) This trus 5) * This tru will fit be 6) Provide r at joint 2 | adequate di s has been uss has bee tween the b mechanical | rainage to prevent water p designed for a 10.0 psf bo in designed for a live load sottom chord and any othe connection (by others) of | ottom chord liv of 20.0psf on t r members, wi truss to bearin | the bottom chord in all are th BCDL = 10.0psf. Ig plate capable of withsta | eas where a rectang anding 255 lb uplift a | le 3-6-0 tall at joint 10 a | nd 210 lb up | | STATE JUAN | GARCIA |
| , | 0 | ed in accordance with the ANSI/TPI 1. | 2018 Internatio | onal Residential Code sec | ctions R502.11.1 an | id R802.10. | 2 and | | 16 | 952 |

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



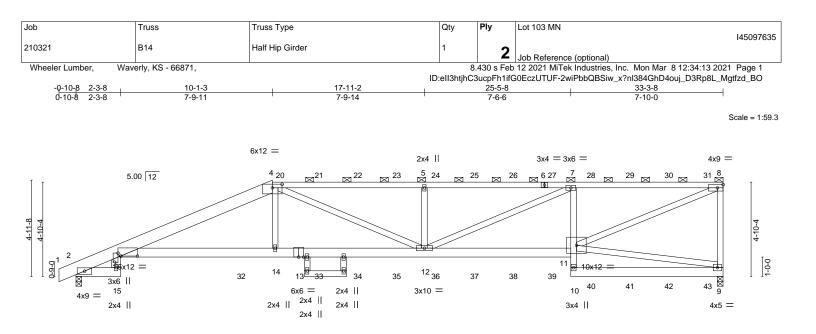




| 2-3-8 | 6-9-1 13-3- | | 19-5-13 | | 25-5-8 | | 33-3-8 | | | |
|---|---|---|------------------------|--|---------------------------|---------------------------------|---|------------------------------------|--|--|
| Plate Offsets (X,Y) | <u>4-5-9</u> <u>6-6-</u> [3:0-1-9,0-0-1], [3:0-7-15,0-0-0], [5:0-6- | • | 6-2-3 | - | 5-11-11 | | 7-10-0 | · | | |
| Plate Offsets (X,Y) | [3:0-1-9,0-0-1], [3:0-7-15,0-0-0], [5:0-6- | 0,0-2-13] | 1 | | | | | | | |
| 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 0.88 BC 0.58 WB 0.85 Matrix-S | Vert(CT) - Horz(CT) | in (loc 0.27 13-1 0.51 13-1 0.30 0.21 13-1 | 5 >999 5 >776 9 n/a | L/d 360 240 n/a 240 | PLATES MT20 Weight: 163 lb | GRIP 197/144 FT = 10% | | |
| | | | | | | | - | | | |
| TOP CHORD 2x8 SF 5-8: 2x 5-8: 2x BOT CHORD 2x4 SF 3-14,1 3-14,1 WEBS 2x3 SF 17-19, 0THERS 2x3 SF | 5-8: 2x4 SPF 2100F 1.8E except end verticals, and 2-0-0 oc purlins (4-4-14 max.): 5-8. BOT CHORD 2x4 SPF No.2 *Except* BOT CHORD 3-14,11-14: 2x4 SPF 2100F 1.8E, 7-10: 2x3 SPF No.2 WEBS 1 Row at midpt 2x3 SPF No.2 *Except* 17-19,18-20: 2x4 SPF No.2 VEBS 0THERS 2x3 SPF No.2 VEBS | | | | | | | | | |
| Max H Max U Max G FORCES. (Ib) - Max. TOP CHORD 2-3=- | e) 9=0-3-8, 2=0-3-8 orz 2=258(LC 5) plift 9=-264(LC 5), 2=-184(LC 4) irav 9=1486(LC 1), 2=1561(LC 1) Comp./Max. Ten All forces 250 (lb) o .768/59, 3-4=-4023/473, 4-5=-2765/405 .1932/381, 8-9=-1406/314 | | | | | | | MISSOURAN AN RCIA | | |
| BOT CHORD 3-15: | | | | | | | | | | |
| 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 2) Provide adequate drainage to prevent water ponding. | | | | | | | | | | |
| a) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. b) * This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. c) * 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. c) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 9 and 184 lb uplift at joint 2. f) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and | | | | | | | | | | |
| joint 2. 6) This truss is designer referenced standard | ed in accordance with the 2018 Internati | onal Residential Code se | ctions R502.11.1 and | d R802.10 | .2 and | | | 0 | | |
| 7) Graphical purlin rep | 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 16952 | | | | | | | | | |

16952 March 9,2021





| 2-3-8 | 10-1-3 | 17-11-2 | | 25-5- | | | 33-3-8 | |
|---|--|---|--|--|--|---------------------------------|--|------------------------------------|
| 2-3-8 Plate Offsets (X,Y) | <u>7-9-11</u> [3:0-1-13,0-1-10], [3:0-10-6,0-0-0], [4:0 | 7-9-14 | | 7-6-6 | 5 | | 7-10-0 | |
| | [<u>[]]] []] []] []] []] []] []] []] []] [</u> | | | | | | | |
| LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2018/TPI2014 | CSI. TC 0.92 BC 0.55 WB 0.72 Matrix-S | Vert(CT) -(Horz(CT) (| in (loc) 0.39 3-14 0.71 3-14 0.37 9 0.32 3-14 | >558 n/a | L/d 360 240 n/a 240 | PLATES MT20 Weight: 393 lb | GRIP 197/144 FT = 10% |
| BOT CHORD 2x6 SF 7-10,10 WEBS 2x4 SF 3-15: 2 REACTIONS. (sizz, Max H) | PF 2100F 1.8E *Except* 8 SP DSS 2400F 2.0E *Except* 3-17: 2x4 SPF No.2 PF No.2 *Except* x6 SPF No.2 e) 9=0-3-8, 2=0-3-8 orz 2=153(LC 5) plift 9=-470(LC 5), 2=-376(LC 8) | | BRACING- TOP CHORD BOT CHORD | excep | t end vert | icals, and 2-(| irectly applied or 4-8-11 D-0 oc purlins (5-4-1 ma or 10-0-0 oc bracing. | |
| Max G FORCES. (lb) - Max. TOP CHORD 2-3=- 8-9=- BOT CHORD 3-14= WEBS 3-15= | rav 9=2972(LC 1), 2=3604(LC 1) Comp./Max. Ten All forces 250 (lb) c 1658/217, 3-4=-7028/1029, 4-5=-7184, 2773/570 =-1072/6657, 12-14=-1071/6699, 11-12 =-72/531, 4-14=-49/1068, 4-12=-149/62 =-1017/5879 | /1128, 5-7=-7181/1129, 7-8 =-969/5526, 10-11=0/299, | 7-11=-1742/436 | | | | The second secon | JAN RCIA |
| Top chords connect Bottom chords conn Webs connected as 2) All loads are conside ply connections have 3) Wind: ASCE 7-16; V MWFRS (envelope) 4) Provide adequate dr 5) This truss has been 6) * This truss has been 6) * This truss has been 7) Provide mechanical joint 2. 8) This truss is designer referenced standard 9) Load case(s) 1, 2, 3 been modified. Build | inected together with 10d (0.131"x3") n ed as follows: 2x8 - 2 rows staggered a ected as follows: 2x6 - 2 rows staggered follows: 2x6 - 2 rows staggered at 0-9- ered equally applied to all plies, except e been provided to distribute only loads (/ult=115mph (3-second gust) Vasd=91r ; cantilever left and right exposed ; end rainage to prevent water ponding. designed for a 10.0 psf bottom chord li n designed for a live load of 20.0psf on rottom chord and any other members. connection (by others) of truss to beari ed in accordance with the 2018 Internat (ANS/TPI 1. , 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, ling designer must review loads to verif presentation does not depict the size of | t 0-9-0 oc, 2x4 - 1 row at 0 d at 0-9-0 oc, 2x4 - 1 row at 0 oc, 2x4 - 1 row at 0-9-0 o if noted as front (F) or back noted as (F) or (B), unless nph; TCDL=6.0psf; BCDL= vertical left and right expose ve load nonconcurrent with the bottom chord in all are ng plate capable of withstat ional Residential Code sec 16, 17, 18, 19, 20, 21, 22, 3 y that they are correct for the | tt 0-9-0 oc. c. (B) face in the LOA otherwise indicated 6.0psf; h=25ft; Cat. ed; Lumber DOL=1. any other live loads as where a rectangle nding 470 lb uplift at tions R502.11.1 and 23, 24, 25, 26, 27, 20 | I; Exp C; E 60 plate gr 3-6-0 tall joint 9 and R802.10.2 3, 29, 30, 3 | ip DOL=1 by 2-0-0 w 376 lb up and 1, 32 has/ | 60 ride lift at | PROTO | GARCIA BINSED 952 |

Continued on page 2



| lob | Truss | Truss Type | Qty | Ply | Lot 103 MN | 1450070 |
|--|---|---|--|---|--|---|
| 210321 | B14 | Half Hip Girder | 1 | | | 1450976 |
| | | | | 2 | | |
| Wheeler Lumber, V | Vaverly, KS - 66871, | | ID:all2btib | | b 12 2021 MiTek Industries, Inc. M G0EczUTUF-2wiPbbQBSiw_x?nl38 | |
| 12-5-7, 111 lb down and 63 lb up at 22- 30-5-7, and 131 lb lb up at 14-5-7, 80 and 34 lb up at 24- | n and 63 lb up at 14-5 5-7, 111 lb down and down and 92 lb up at lb down and 34 lb up 5-7, 72 lb down at 26 s) is the responsibility | shall be provided sufficient to support con 5-7, 111 lb down and 63 lb up at 16-5-7, 63 lb up at 24-5-7, 125 lb down and 94 ll 32-5-7 on top chord, and 107 lb down at at 16-5-7, 80 lb down and 34 lb up at 18 5-5-7, 72 lb down at 28-5-7, and 72 lb dow of others. | 11 lb down and 63 lb up o up at 26-5-7, 125 lb do 12-5-7, 726 lb down and -5-7, 80 lb down and 34 | o at 18-5-7 own and 94 d 272 lb up lb up at 20 | 7, 111 lb down and 63 lb up at 20 4 lb up at 28-5-7, and 125 lb dow at 8-5-7, 82 lb down at 10-5-7, 0-5-7, 80 lb down and 34 lb up at |)-5-7, 111 lb down /n and 94 lb up at 80 lb down and 34 t 22-5-7, 80 lb down |
| Uniform Loads (plf) Vert: 1-4=-7 Concentrated Loads Vert: 14=-65 | alanced): Lumber Incr 0, 4-8=-70, 2-15=-20, (lb) 9(B) 20=-102(B) 21=-8 | ease=1.15, Plate Increase=1.15 3-11=-20, 9-10=-20 31(B) 22=-81(B) 23=-81(B) 24=-81(B) 25= 36=-80(B) 37=-80(B) 38=-80(B) 39=-80(B) | | | | =-129(B) 32=-726(B) |
| 2) Dead + 0.75 Roof Lit Uniform Loads (plf) Vert: 1-4=-5 Concentrated Loads Vert: 14=-63 33=-107(B) | ve (balanced): Lumbe 7, 4-8=-58, 2-15=-20, (lb) 8(B) 20=-85(B) 21=-70 34=-69(B) 35=-69(B) | r Increase=1.15, Plate Increase=1.15 | 70(B) 26=-70(B) 27=-70() 40=-49(B) 41=-49(B) 4 | (B) 28=-98(| (B) 29=-98(B) 30=-98(B) 31=-106 | 5(B) 32=-617(B) |
| Vert: 1-4=-2 Concentrated Loads Vert: 14=-82 33=-107(B) | 2(B) 20=-44(B) 21=-55 34=-55(B) 35=-55(B) | 3-11=-40, 9-10=-40 5(B) 22=-55(B) 23=-55(B) 24=-55(B) 25=- 36=-55(B) 37=-55(B) 38=-55(B) 39=-55(B .eft: Lumber Increase=1.60, Plate Increas |) 40=-72(B) 41=-72(B) 4 | | | B) 32=-417(B) |
| Horz: 1-2=-3 Drag: 4-5=-0 Concentrated Loads | 84, 2-4=-21, 8-9=18) (lb) | =-12, 3-11=-12, 9-10=-12 B) 22=33(B) 23=33(B) 24=33(B) 25=33(B) |) 26=33(B) 27=33(B) 28 | =63(B) 29= | -63(B) 30=63(B) 31=66(B) 32=26 | 54(B) 33=-107(B) |
| 5) Dead + 0.6 MWFRS Uniform Loads (plf) Vert: 1-2=3, | Wind (Pos. Internal) F 2-4=9, 4-8=16, 2-15= | 26(B) 38=26(B) 39=26(B) 40=-23(B) 41=- Right: Lumber Increase=1.60, Plate Increa -12, 3-11=-12, 9-10=-12 | | 5(B) | | |
| Drag: 4-5=-0 Concentrated Loads Vert: 14=-27 | (lb) 7(B) 20=53(B) 21=33(l | B) 22=33(B) 23=33(B) 24=33(B) 25=33(B -26(B) 38=26(B) 39=26(B) 40=-23(B) 41=- | | | -63(B) 30=63(B) 31=66(B) 32=26 | i4(B) 33=-107(B) |
| 6) Dead + 0.6 MWFRS Uniform Loads (plf) Vert: 1-2=-5 Horz: 1-2=- ² | Wind (Neg. Internal) I , 2-4=-11, 4-8=-3, 2-1 5, 2-4=-9, 8-9=6 | Left: Lumber Increase=1.60, Plate Increas 5=-20, 3-11=-20, 9-10=-20 | | 、 / | | |
| Drag: 4-5=-0 Concentrated Loads | (lb) | B) 22=52(B) 23=52(B) 24=52(B) 25=52(B | | 02/D) 20 | 92/P) | |

Uniform Loads (plf)

Vert: 1-2=-5, 2-4=-11, 4-8=-3, 2-15=-20, 3-11=-20, 9-10=-20

Horz: 1-2=-15, 2-4=-9, 8-9=-24

Drag: 4-5=-0

Concentrated Loads (lb)

Vert: 14=-19(B) 20=72(B) 21=52(B) 22=52(B) 23=52(B) 24=52(B) 25=52(B) 26=52(B) 27=52(B) 28=83(B) 29=83(B) 29=83(B) 20=52(B) 24=52(B) 25=52(B) 25=52

30=83(B) 31=83(B) 32=272(B) 33=-107(B) 34=34(B) 35=34(B) 36=34(B) 37=34(B) 38=34(B) 39=34(B) 40=-15(B) 41=-15(B) 42=-15(B) 43=-18(B)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=11, 2-4=16, 4-8=6, 2-15=-12, 3-11=-12, 9-10=-12

Horz: 1-2=-23, 2-4=-28, 8-9=15

Drag: 4-5=-0

Concentrated Loads (lb)

Vert: 14=-27(B) 20=57(B) 21=43(B) 22=43(B) 23=43(B) 24=43(B) 25=43(B) 26=43(B) 27=43(B) 28=74(B) 29=74(B) 30=74(B) 31=75(B) 32=264(B) 33=-107(B) 34=26(B) 35=26(B) 36=26(B) 37=26(B) 38=26(B) 39=26(B) 40=-23(B) 41=-23(B) 42=-23(B) 42=-23(

42=-23(B) 43=-25(B)

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3



| Job | Truss | Truss Type | Qty | Ply | Lot 103 MN | |
|--|--|--|---|--|--|-----------|
| | | | | - | | 145097635 |
| 210321 | B14 | Half Hip Girder | 1 | 2 | Job Reference (optional) | |
| Wheeler Lumber, Wav | erly, KS - 66871, | | | | 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:13 G0EczUTUF-2wiPbbQBSiw_x?nl384GhD4ouj_D3Rpi | |
| Horz: 1-2=-12, : Drag: 4-5=-0 Concentrated Loads (lb) Vert: 14=-27(B) 34=26(B) 35=2 10) Dead + 0.6 MWFRS W Uniform Loads (plf) Vert: 1-2=3, 2 Horz: 1-2=-23 Drag: 4-5=-0 Concentrated Loads (ll Vert: 14=-19(E 34=34(B) 35= 11) Dead + 0.6 MWFRS W Uniform Loads (plf) Vert: 1-2=-8, 2 Horz: 1-2=-12 Drag: 4-5=-0 Concentrated Loads (ll Vert: 14=-19(E 34=34(B) 35= 12) Dead: Lumber Increas Uniform Loads (plf) Vert: 14=-46(E 33=-107(B) 34 13) Dead + 0.75 Roof Live Uniform Loads (plf) | a=6, 4-8=6, 2-15=-12, 3-11=-22-4=-18, 8-9=-7 20=61(B) 21=43(B) 22=43(E) 5(B) 36=26(B) 37=26(B) 38=25 5(B) 36=26(B) 37=26(B) 38=25 5(B) 36=26(B) 37=26(B) 32=263-35 3(A) 36=34(B) 37=34(B) 38-34(B) 38=34(B) 37=34(B) 38=34(B) 37=34(B) 38=34(B) 36=34(B) 37=34(B) 38=34(B) 36=34(B) 37=34(B) 38=34(B) 36=34(B) 37=34(B) 38=34(B) 36=34(B) 37=34(B) 38=36(B) 36=36(B) 35=-36(B) 35=-36(B) 35=-36(B) 35=-36(B) 36=-36(B) (bal.) + 0.75(0.6 MWFRS W) | 12, 9-10=-12 3) 23=43(B) 24=43(B) 25=43(B) 26=43(B) 27= 26(B) 39=26(B) 40=-23(B) 41=-23(B) 42=-23(el: Lumber Increase=1.60, Plate Increase=1.6 11=-20, 9-10=-20 (B) 23=63(B) 24=63(B) 25=63(B) 26=63(B) 27= 34(B) 39=34(B) 40=-15(B) 41=-15(B) 42=-15 lel: Lumber Increase=1.60, Plate Increase=1. 3-11=-20, 9-10=-20 (B) 23=63(B) 24=63(B) 25=63(B) 26=63(B) 27= 34(B) 39=34(B) 40=-15(B) 41=-15(B) 42=-15 Plt. metal=0.90), 9-10=-20 37(B) 23=-37(B) 24=-37(B) 25=-37(B) 26=-37(C)) 37=-36(B) 38=-36(B) 39=-36(B) 40=-39(B) 40=-30(B) 40=-30(B) 40=-30(B) 40=-30(B) 40=-30(B) 40=-30(B) | 43(B) 28=7 3) 43=-25(f 0 =63(B) 28= (B) 43=-18 50 =63(B) 28= (B) 43=-18 (B) 43=-18 (B) 43=-18 (B) 27=-37(1=-39(B) 4 | 74(B) 29=7 3) =94(B) 29= (B) =94(B) 29= (B) =94(B) 29= (B) =94(B) 29= (B) | 74(B) 30=74(B) 31=75(B) 32=264(B) 33=-107(B) =94(B) 30=94(B) 31=92(B) 32=272(B) 33=-107(B =94(B) 30=94(B) 31=92(B) 32=272(B) 33=-107(B (B) 29=-37(B) 30=-37(B) 31=-40(B) 32=-291(B) |) |
| Horz: 1-2=-11 Drag: 4-5=-0 Concentrated Loads (II Vert: 14=-19(E 34=22(B) 35=: 14) Dead + 0.75 Roof Live Uniform Loads (plf) Vert: 1-2=-46, Horz: 1-2=-11 Drag: 4-5=-0 Concentrated Loads (II Vert: 14=-19(E | 3) 20=51(B) 21=36(B) 22=36 22(B) 36=22(B) 37=22(B) 38 (bal.) + 0.75(0.6 MWFRS W 2-4=-50, 4-8=-45, 2-15=-20, , 2-4=-7, 8-9=-18 3) 20=51(B) 21=36(B) 22=36 | (B) 23=36(B) 24=36(B) 25=36(B) 26=36(B) 27 =22(B) 39=22(B) 40=-15(B) 41=-15(B) 42=-15 ind (Neg. Int) Right): Lumber Increase=1.60, F 3-11=-20, 9-10=-20 (B) 23=36(B) 24=36(B) 25=36(B) 26=36(B) 27 | (B) 43=-18 Plate Increa | (B) se=1.60 =59(B) 29= | =59(B) 30=59(B) 31=58(B) 32=163(B) 33=-107(B =59(B) 30=59(B) 31=58(B) 32=163(B) 33=-107(B | |
| 15) Dead + 0.75 Roof Live Uniform Loads (plf) Vert: 1-2=-41, Horz: 1-2=-17 Drag: 4-5=-0 Concentrated Loads (II Vert: 14=-19(E 30=67(B) 31= 41=-15(B) 42= | (bal.) + 0.75(0.6 MWFRS W 2-4=-45, 4-8=-53, 2-15=-20, 2-4=-12, 8-9=3 b) 3) 20=55(B) 21=44(B) 22=44 64(B) 32=163(B) 33=-107(B) 15(B) 43=-18(B) | (B) 23=44(B) 24=44(B) 25=44(B) 26=44(B) 27 34=22(B) 35=22(B) 36=22(B) 37=22(B) 38=2 | .60, Plate =44(B) 28= 2(B) 39=22 | =67(B) 29= -(B) 40=-1 | =67(B) 5(B) | |
| Uniform Loads (plf) Vert: 1-2=-48, Horz: 1-2=-9, Drag: 4-5=-0 Concentrated Loads (II Vert: 14=-19(E 30=67(B) 31= 41=-15(B) 42= 17) Dead + 0.6 MWFRS W Uniform Loads (plf) Vert: 1-2=-12, Horz: 2-4=3 Concentrated Loads (II Vert: 14=-27(E 30=68(B) 31= 41=-23(B) 42= | 2-4=-53, 4-8=-53, 2-15=-20, 2-4=-5, 8-9=-14 b) 3) 20=57(B) 21=44(B) 22=44 64(B) 32=163(B) 33=-107(B) 15(B) 43=-18(B) find Min. Left: Lumber Increa 2-4=-15, 4-8=-12, 2-15=-12, b) 3) 20=59(B) 21=44(B) 22=44 66(B) 32=204(B) 33=-107(B) 23(B) 43=-25(B) | (B) 23=44(B) 24=44(B) 25=44(B) 26=44(B) 27 34=22(B) 35=22(B) 36=22(B) 37=22(B) 38=2 se=1.60, Plate Increase=1.60 3-11=-12, 9-10=-12 (B) 23=44(B) 24=44(B) 25=44(B) 26=44(B) 27 34=16(B) 35=16(B) 36=16(B) 37=16(B) 38=1 | =44(B) 28= 2(B) 39=22 =44(B) 28= | =67(B) 29= (B) 40=-1 =68(B) 29= | =67(B) 5(B) =68(B) | |
| Uniform Loads (plf) | 4-8=-12, 2-15=-12, 3-11=-12 | ase=1.60, Plate Increase=1.60 2, 9-10=-12 | | | | |

Continued on page 4



| Job | Truss | Truss Type | Qty | Ply | Lot 103 MN | |
|---|--|--|-------------|-------------|--|-------------------|
| 210321 | B14 | Half Hip Girder | 1 | 2 | | 145097635 |
| Wheeler Lumber, Way | verly, KS - 66871, | | | | Job Reference (optional) 12 2021 MiTek Industries, Inc. Mon Mar 8 12: | 34-13 2021 Page 4 |
| | veny, NO - 00071, | | | | G0EczUTUF-2wiPbbQBSiw_x?nl384GhD4ouj_D | |
| LOAD CASE(S) Standar | d | | | | | |
| Concentrated Loads (| lb) | | | | | |
| | | 4(B) 23=44(B) 24=44(B) 25=44(B) 26=44(B) 2 3=16(B) 39=16(B) 40=-23(B) 41=-23(B) 42=-2 | | | =68(B) 30=68(B) 31=66(B) 32=204(B) 33=-10 | 07(B) |
| 19) Reversal: Dead + 0.6 | |) Left: Lumber Increase=1.60, Plate Increase | | 5(2) | | |
| Uniform Loads (plf) | 2-4=9, 4-8=16, 2-15=-12, 3-1 | 1112 9-1012 | | | | |
| | 1, 2-4=-21, 8-9=18 | 11-12, 3-10-12 | | | | |
| Drag: 4-5=-0 Concentrated Loads (| lb) | | | | | |
| | | 2=-111(B) 23=-111(B) 24=-111(B) 25=-111(B |) 26=-111(E | 8) 27=-111(| (B) 28=-125(B) 29=-125(B) 30=-125(B) 31=-1 | 122(B) |
| | | (B) 36=-67(B) 37=-67(B) 38=-67(B) 39=-67(E) | | 41=-56(B) |) 42=-56(B) 43=-57(B) | |
| 20) Reversal: Dead + 0.6 Uniform Loads (plf) | WIVERS WIND (Pos. Internal) |) Right: Lumber Increase=1.60, Plate Increas | e=1.60 | | | |
| Vert: 1-2=3, 2 | 2-4=9, 4-8=16, 2-15=-12, 3-11 | 1=-12, 9-10=-12 | | | | |
| Horz: 1-2=-15 Drag: 4-5=-0 | 5, 2-4=-21, 8-9=-12 | | | | | |
| Concentrated Loads (| | | | | | |
| | | 2=-111(B) 23=-111(B) 24=-111(B) 25=-111(B (B) 36=-67(B) 37=-67(B) 38=-67(B) 39=-67(E) | | | (B) 28=-125(B) 29=-125(B) 30=-125(B) 31=-1 | 122(B) |
| | |) Left: Lumber Increase=1.60, Plate Increase | | 41=-30(D) |) +2=-50(B) +5=-57(B) | |
| Uniform Loads (plf) | 0 4 44 4 0 0 0 45 00 0 | 11 20 0 10 20 | | | | |
| , | 2-4=-11, 4-8=-3, 2-15=-20, 3- 5, 2-4=-9, 8-9=6 | -11=-20, 9-10=-20 | | | | |
| Drag: 4-5=-0 | | | | | | |
| Concentrated Loads (Vert: 14=-61(| | .91(B) 23=-91(B) 24=-91(B) 25=-91(B) 26=-9 | 1(B) 27=-91 | (B) 28=-10 | 95(B) 29=-105(B) 30=-105(B) 31=-106(B) 32= | =-417(B) |
| 33=-107(B) 3 | 4=-59(B) 35=-59(B) 36=-59(E | 3) 37=-59(B) 38=-59(B) 39=-59(B) 40=-48(B) | 41=-48(B) | · / | | (2) |
| 22) Reversal: Dead + 0.6 Uniform Loads (plf) | MWFRS Wind (Neg. Internal) |) Right: Lumber Increase=1.60, Plate Increas | e=1.60 | | | |
| u , | 2-4=-11, 4-8=-3, 2-15=-20, 3- | -11=-20, 9-10=-20 | | | | |
| Horz: 1-2=-15 Drag: 4-5=-0 | 5, 2-4=-9, 8-9=-24 | | | | | |
| Concentrated Loads (| lb) | | | | | |
| | | | | | 05(B) 29=-105(B) 30=-105(B) 31=-106(B) 32= | =-417(B) |
| | | 3) 37=-59(B) 38=-59(B) 39=-59(B) 40=-48(B)) 1st Parallel: Lumber Increase=1.60, Plate Ir | | | 43=-51(B) | |
| Uniform Loads (plf) | | | | | | |
| | 2-4=16, 4-8=6, 2-15=-12, 3-1 3, 2-4=-28, 8-9=15 | 11=-12, 9-10=-12 | | | | |
| Drag: 4-5=-0 | | | | | | |
| Concentrated Loads (Vert: 14=-69(| , | 2=-100(B) 23=-100(B) 24=-100(B) 25=-100(B |) 26=-100(F | 3) 27=-100 | (B) 28=-114(B) 29=-114(B) 30=-114(B) 31=-1 | 114(B) |
| 32=-425(B) 3 | 3=-107(B) 34=-67(B) 35=-67(| (B) 36=-67(B) 37=-67(B) 38=-67(B) 39=-67(E) |) 40=-56(B) | 41=-56(B) | | |
| 24) Reversal: Dead + 0.6 Uniform Loads (plf) | MWFRS Wind (Pos. Internal) |) 2nd Parallel: Lumber Increase=1.60, Plate I | ncrease=1. | 60 | | |
| u , | 2-4=6, 4-8=6, 2-15=-12, 3-11= | =-12, 9-10=-12 | | | | |
| Horz: 1-2=-12 Drag: 4-5=-0 | 2, 2-4=-18, 8-9=-7 | | | | | |
| Concentrated Loads (| lb) | | | | | |
| | | 2=-100(B) 23=-100(B) 24=-100(B) 25=-100(B) 2 | | | | |
| | =-56(B) 41=-56(B) 42=-56(B) | 25(B) 33=-107(B) 34=-67(B) 35=-67(B) 36=-6 0 43=-57(B) | ол(в) 37=-0 | /(В) 38=-0 | 7(В) | |
| , | MWFRS Wind (Neg. Internal) |) 1st Parallel: Lumber Increase=1.60, Plate I | crease=1.6 | 0 | | |
| Uniform Loads (plf) Vert: 1-2=3.2 | 2-4=-3, 4-8=-14, 2-15=-20, 3- | 11=-20. 9-10=-20 | | | | |
| Horz: 1-2=-23 | 3, 2-4=-17, 8-9=4 | | | | | |
| Drag: 4-5=-0 Concentrated Loads (| lb) | | | | | |
| | | 81(B) 23=-81(B) 24=-81(B) 25=-81(B) 26=-8 | I(B) 27=-81 | (B) 28=-95 | 6(B) 29=-95(B) | |
| | =-97(B) 32=-417(B) 33=-107(=-48(B) 43=-51(B) | (B) 34=-59(B) 35=-59(B) 36=-59(B) 37=-59(B) |) 38=-59(B) | 39=-59(B) |) 40=-48(B) | |
| 26) Reversal: Dead + 0.6 | |) 2nd Parallel: Lumber Increase=1.60, Plate | ncrease=1. | 60 | | |
| Uniform Loads (plf) | | 2 11 - 20 0 10 - 20 | | | | |
| | 2-4=-14, 4-8=-14, 2-15=-20, 3 2, 2-4=-6, 8-9=-19 | 3-11=-20, 9-10=-20 | | | | |
| Drag: 4-5=-0 | | | | | | |
| Concentrated Loads (Vert: 14=-61(| | 81(B) 23=-81(B) 24=-81(B) 25=-81(B) 26=-8 | 1(B) 27=-81 | (B) 28=-95 | i(B) 29=-95(B) | |
| 30=-95(B) 31 | =-97(B) 32=-417(B) 33=-107 | (B) 34=-59(B) 35=-59(B) 36=-59(B) 37=-59(E) | | | | |
| | =-48(B) 43=-51(B) 5 Roof Live (bal.) + 0.75(0.6 N | MWFRS Wind (Neg. Int) Left): Lumber Increa | se=1.60 PI | ate Increas | se=1.60 | |
| 2., Rovoroal. Dodd (* 0.70 | | | | | | |

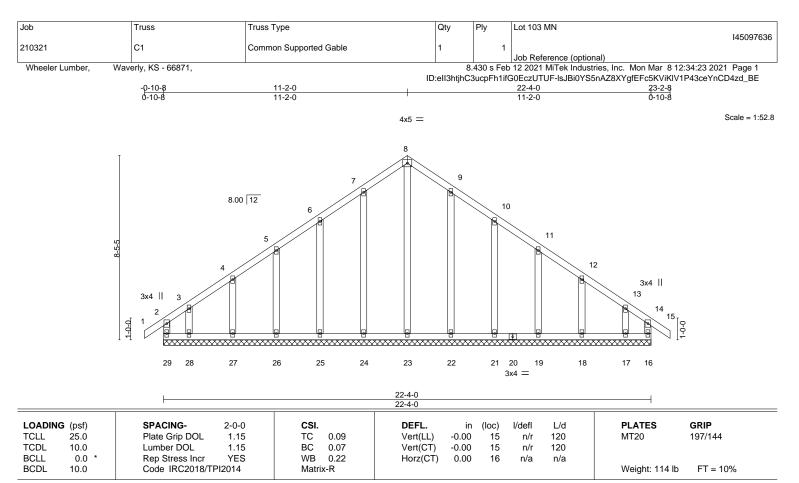
Continued on page 5



| Job | Truss | Truss Type | Qty | Ply | Lot 103 MN |
|--------------------|---------------------------|--|----------------------|--------------|--|
| 10321 | B14 | Half Hip Girder | 1 | - | 1450976 |
| 10321 | | | ' | 2 | Job Reference (optional) |
| Wheeler Lumber, | Waverly, KS - 66871, | l | | 8.430 s Fe | eb 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:13 2021 Page 5 |
| | | | ID:ell3htjl | nC3ucpFh1if | ifG0EczUTUF-2wiPbbQBSiw_x?nl384GhD4ouj_D3Rp8L_Mgtfzd_BO |
| | | | | | |
| OAD CASE(S) St | | | | | |
| Uniform Loads | | | | | |
| | | 2-15=-20, 3-11=-20, 9-10=-20 | | | |
| Drag: 4 | -2=-11, 2-4=-7, 8-9=5 | | | | |
| Concentrated L | | | | | |
| | · · / | -93(B) 22=-93(B) 23=-93(B) 24=-93(B) 25=-9 | 2(P) 26_ 02(P) 27_ | 02(0) 20- | 124/P) 20- 124/P) 20- 124/P) 21- 121/P) |
| | | B) 35=-78(B) 36=-78(B) 37=-78(B) 38=-78(B) | | | |
| | () () () | 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lur | () | , (| , , , , , |
| Uniform Loads | | 0.75(0.0 MWH NO WING (Neg. Int) Night). Eu | | | ease=1.00 |
| | | 2-15=-20, 3-11=-20, 9-10=-20 | | | |
| | -2=-11, 2-4=-7, 8-9=-18 | 2 10 - 20, 0 11 - 20, 0 10 - 20 | | | |
| Drag: 4 | , , | | | | |
| Concentrated L | | | | | |
| | · · / | -93(B) 22=-93(B) 23=-93(B) 24=-93(B) 25=-9 | 3(B) 26=-93(B) 27=- | 93(B) 28=- | -124(B) 29=-124(B) 30=-124(B) 31=-131(B) |
| | | B) 35=-78(B) 36=-78(B) 37=-78(B) 38=-78(B) | | | |
| 29) Reversal: Dead | + 0.75 Roof Live (bal.) + | 0.75(0.6 MWFRS Wind (Neg. Int) 1st Paralle | I): Lumber Increase | -1.60, Plate | e Increase=1.60 |
| Uniform Loads | (plf) | | | | |
| Vert: 1- | 2=-41, 2-4=-45, 4-8=-53, | 2-15=-20, 3-11=-20, 9-10=-20 | | | |
| Horz: 1 | -2=-17, 2-4=-12, 8-9=3 | | | | |
| Drag: 4 | | | | | |
| Concentrated L | · · / | | | | |
| | | -85(B) 22=-85(B) 23=-85(B) 24=-85(B) 25=-8 | | | |
| | | B) 35=-78(B) 36=-78(B) 37=-78(B) 38=-78(B) | | | |
| , | () | 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Paralle | el): Lumber Increase | =1.60, Plat | te Increase=1.60 |
| Uniform Loads | | 0.45 00 0.44 00 0.40 00 | | | |
| | , , , | 2-15=-20, 3-11=-20, 9-10=-20 | | | |
| Drag: 4 | -2=-9, 2-4=-5, 8-9=-14 | | | | |
| Concentrated L | | | | | |
| | | -85(B) 22=-85(B) 23=-85(B) 24=-85(B) 25=-8 | 5(B) 2685(B) 27 | 85(B) 28 | 116(B) 20-116(B) 30-116(B) 31-125(B) |
| | | B) 35=-78(B) 36=-78(B) 37=-78(B) 38=-78(B) | | | |
| | | . Left: Lumber Increase=1.60, Plate Increase | | b) 11= 00(E | B) 12= 00(B) 10= 00(B) |
| Uniform Loads | | ,, | | | |
| | | 2-15=-12, 3-11=-12, 9-10=-12 | | | |
| Horz: 2 | -4=3 | | | | |
| Concentrated L | oads (lb) | | | | |
| Vert: 14 | 4=-62(B) 20=-67(B) 21=-6 | 65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65 | (B) 26=-65(B) 27=-6 | 5(B) 28=-73 | 73(B) 29=-73(B) 30=-73(B) 31=-75(B) 32=-364(B) |
| | |) 36=-57(B) 37=-57(B) 38=-57(B) 39=-57(B) | | 42=-52(B) |) 43=-53(B) |
| | | . Right: Lumber Increase=1.60, Plate Increas | e=1.60 | | |
| Uniform Loads | | | | | |
| | 4=-12, 4-8=-12, 2-15=-12 | 2, 3-11=-12, 9-10=-12 | | | |
| Horz: 8 | | | | | |
| Concentrated L | oode (lb) | | | | |

Concentrated Loads (lb) Vert: 14=-62(B) 20=-68(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=-65(B) 28=-73(B) 29=-73(B) 30=-73(B) 31=-75(B) 32=-364(B) 33=-107(B) 34=-57(B) 35=-57(B) 36=-57(B) 38=-57(B) 39=-57(B) 40=-52(B) 41=-52(B) 42=-52(B) 43=-53(B)





LUMBER-

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

BOT CHORD

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

REACTIONS. All bearings 22-4-0.

Max Horz 29=239(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 16, 24, 25, 26, 27, 22, 21, 19, 18 except 29=-151(LC 4), 28=-163(LC 8), 17=-146(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 29, 16, 23, 24, 25, 26, 27, 28, 22, 21, 19, 18, 17

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

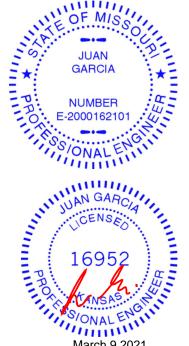
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult gualified building designer as per ANSI/TPI 1.

- 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 2-0-0 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) 16, 24, 25, 26, 27, 22, 21, 19, 18 except (jt=lb) 29=151, 28=163, 17=146.

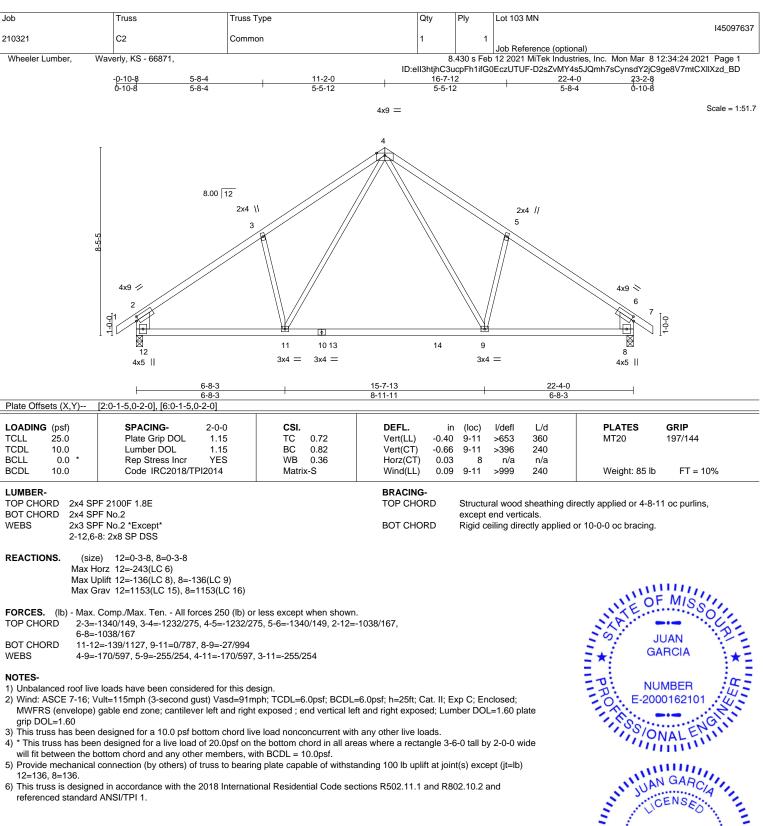
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



MiTek

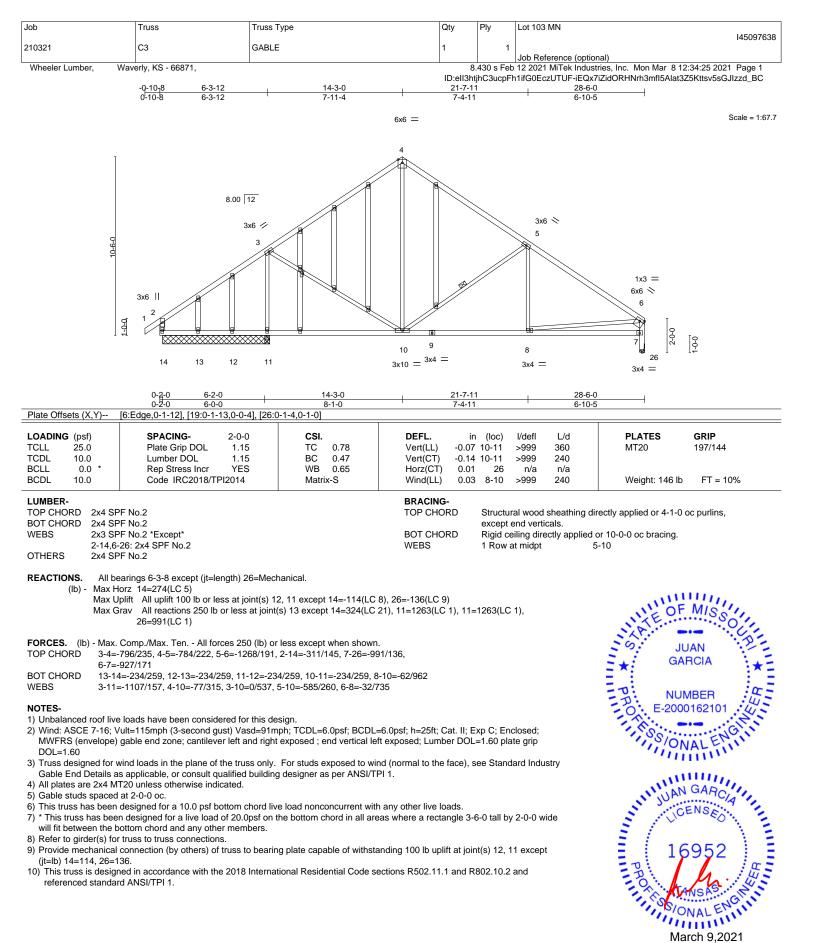
16023 Swingley Ridge Rd Chesterfield, MO 63017

March 9,2021

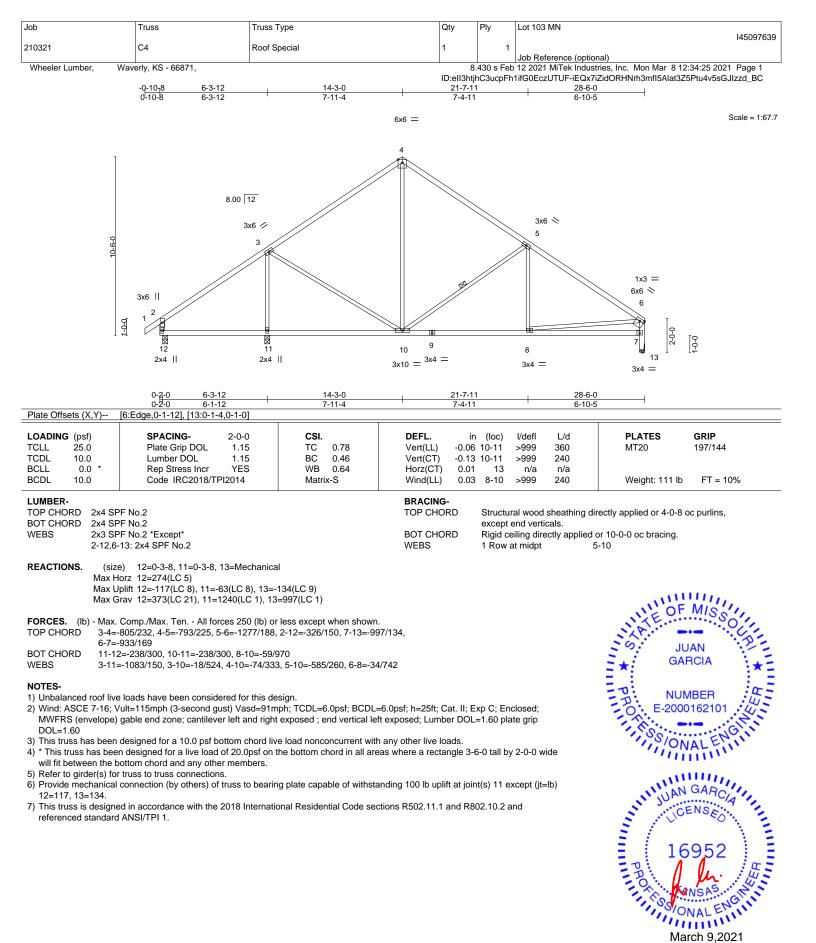




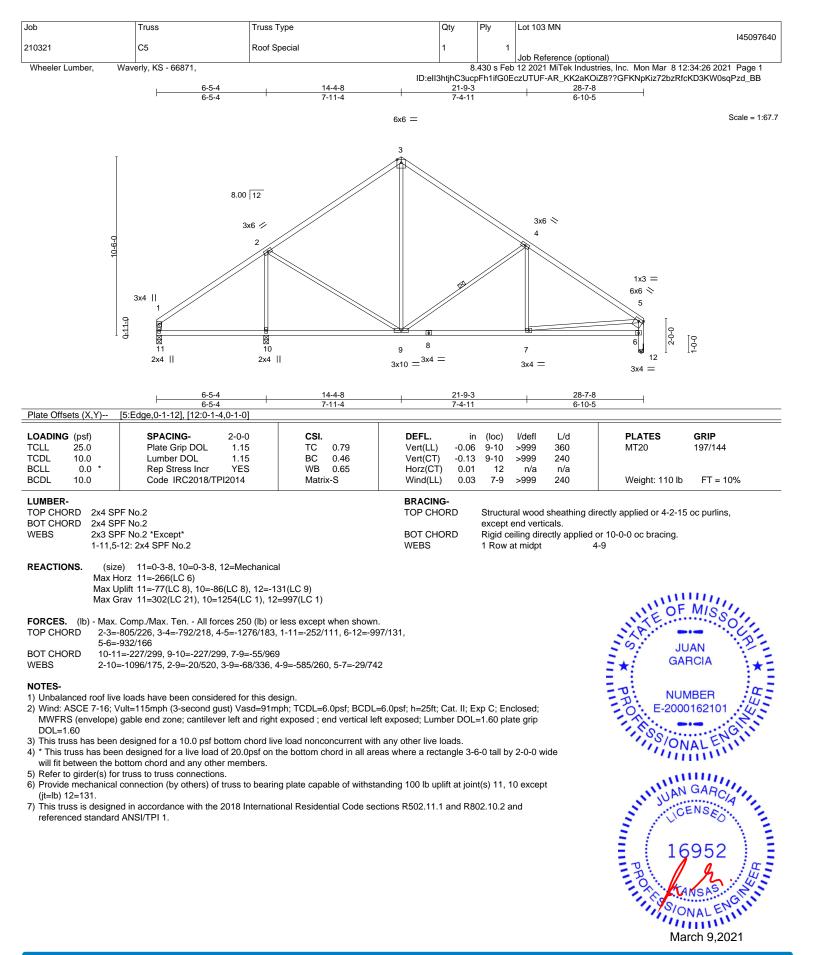
component 16023 Swingley Ridge Rd Chesterfield, MO 63017



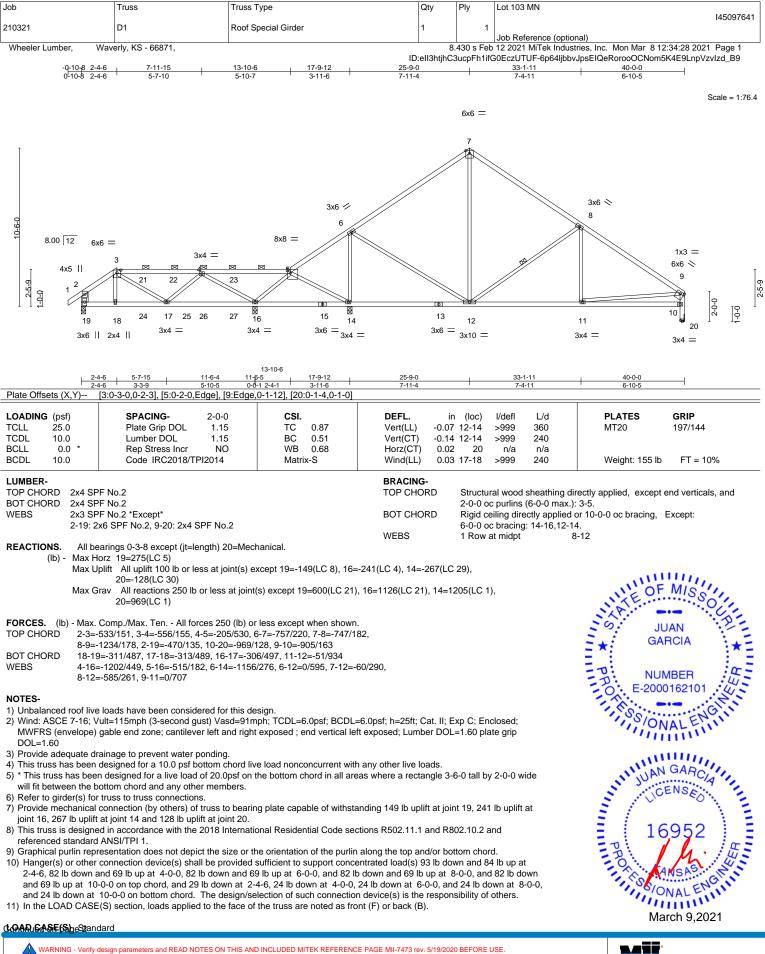
Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017













| Job | Truss | Truss Type | Qty | Ply | Lot 103 MN | |
|--|-------|--|-----|-----|--------------------------|--|
| | | | | | 145097641 | |
| 210321 | D1 | Roof Special Girder | 1 | 1 | | |
| | | | | | Job Reference (optional) | |
| Wheeler Lumber, Waverly, KS - 66871, 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:28 2021 Page 2 | | | | | | |
| | | ID:eII3htjhC3ucpFh1ifG0EczUTUF-6p64ljbbvJpsEIQeRorooOCNom5K4E9LnpVzvIzd_B9 | | | | |

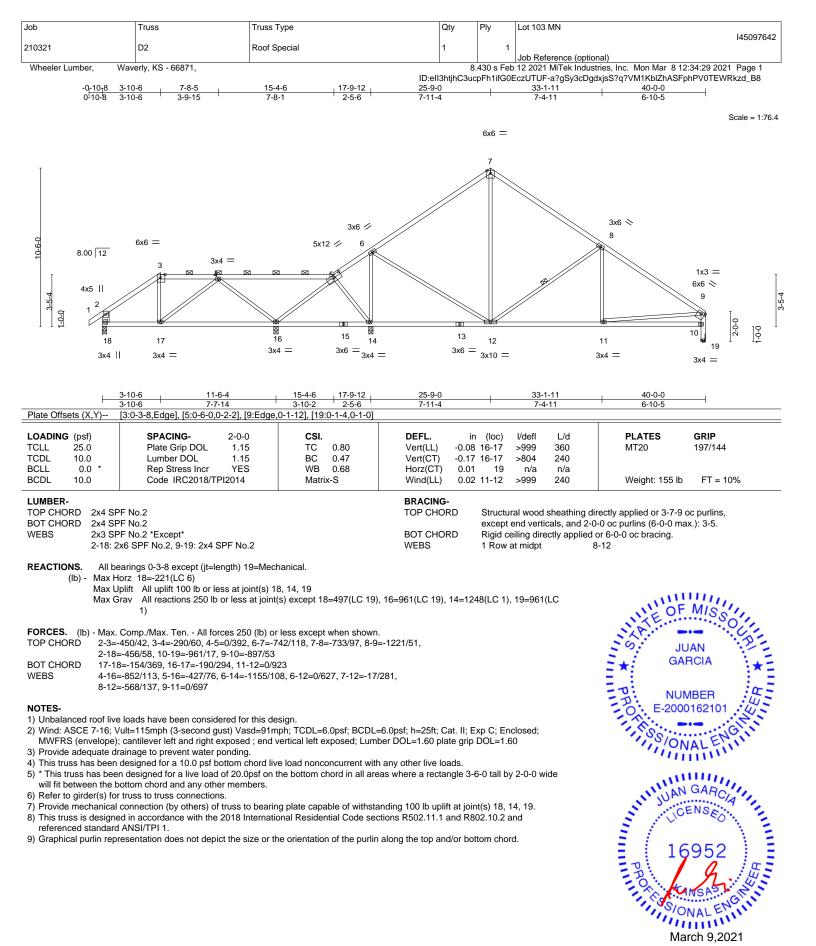
LOAD CASE(S) Standard

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, 5-7=-70, 7-9=-70, 10-19=-20

Concentrated Loads (lb) Vert: 3=-18(F) 18=-16(F) 4=-32(F) 21=-32(F) 22=-32(F) 23=-32(F) 24=-17(F) 25=-17(F) 26=-17(F) 27=-17(F) 26=-17(F) 27=-17(F) 26=-17(F) 27=-17(F) 26=-17(F) 26=-17(F

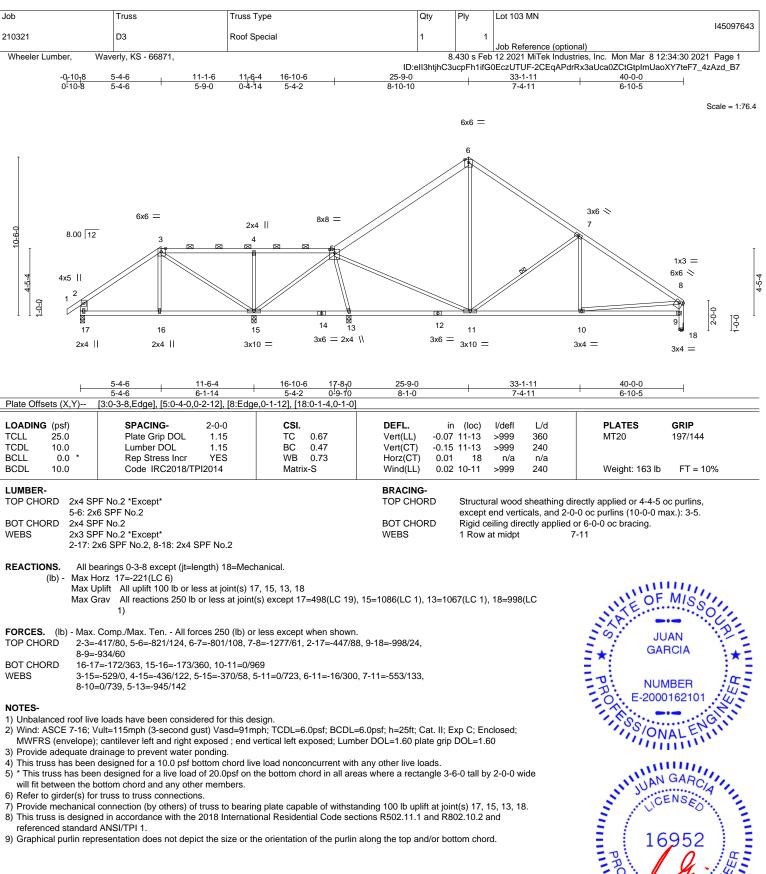




MiTek

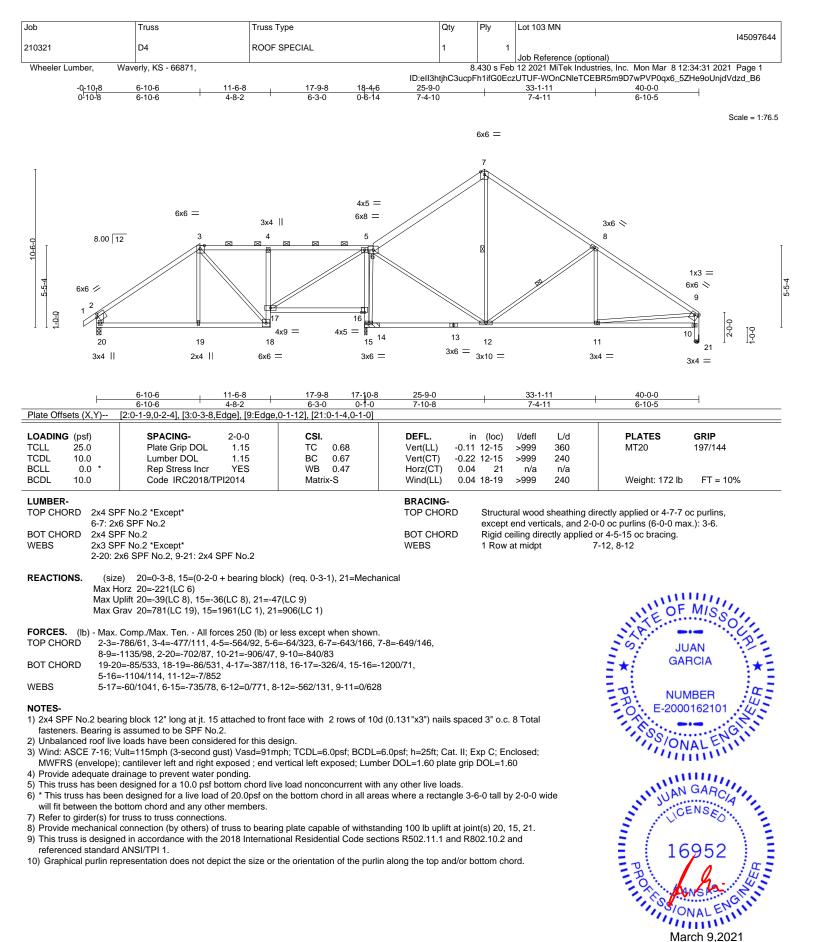
March 9.2021

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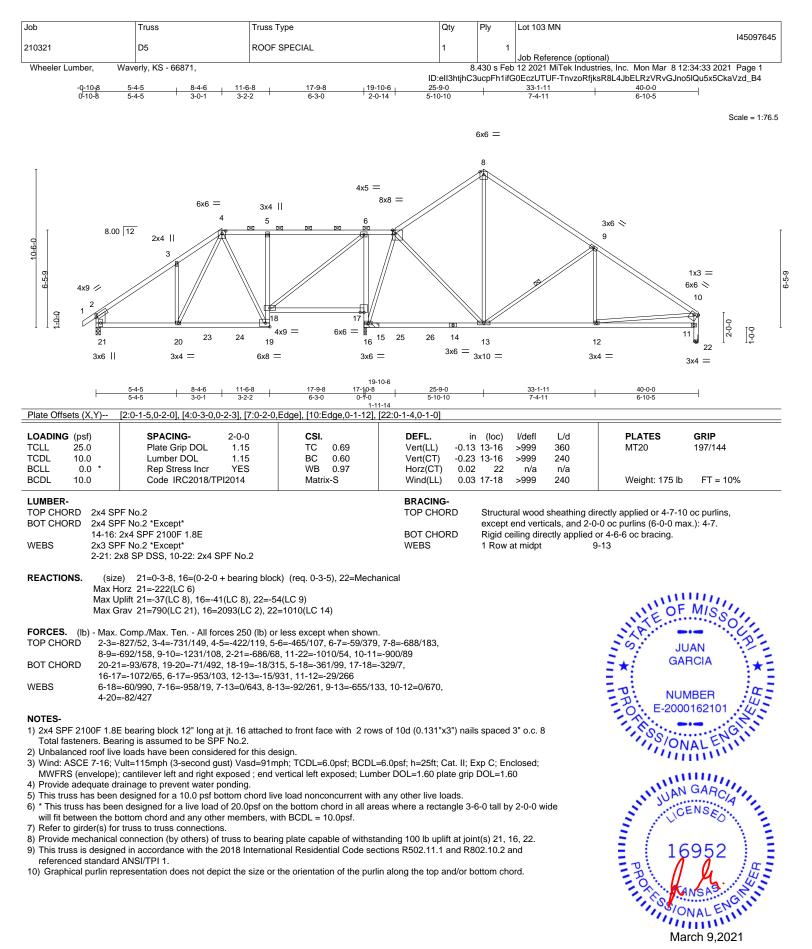




MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

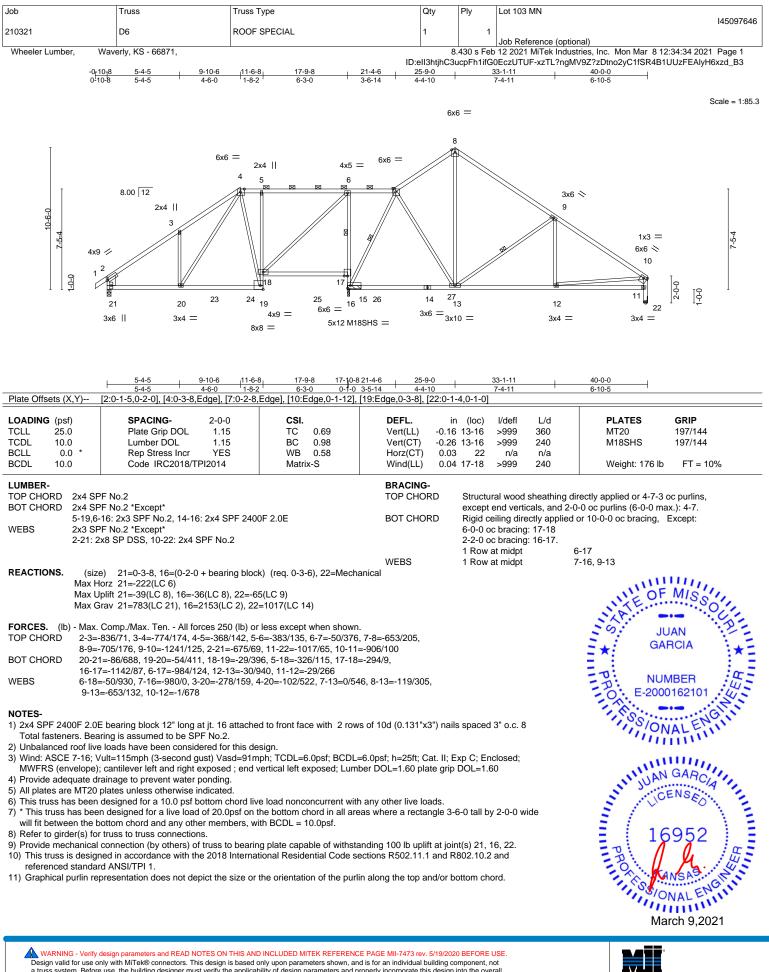






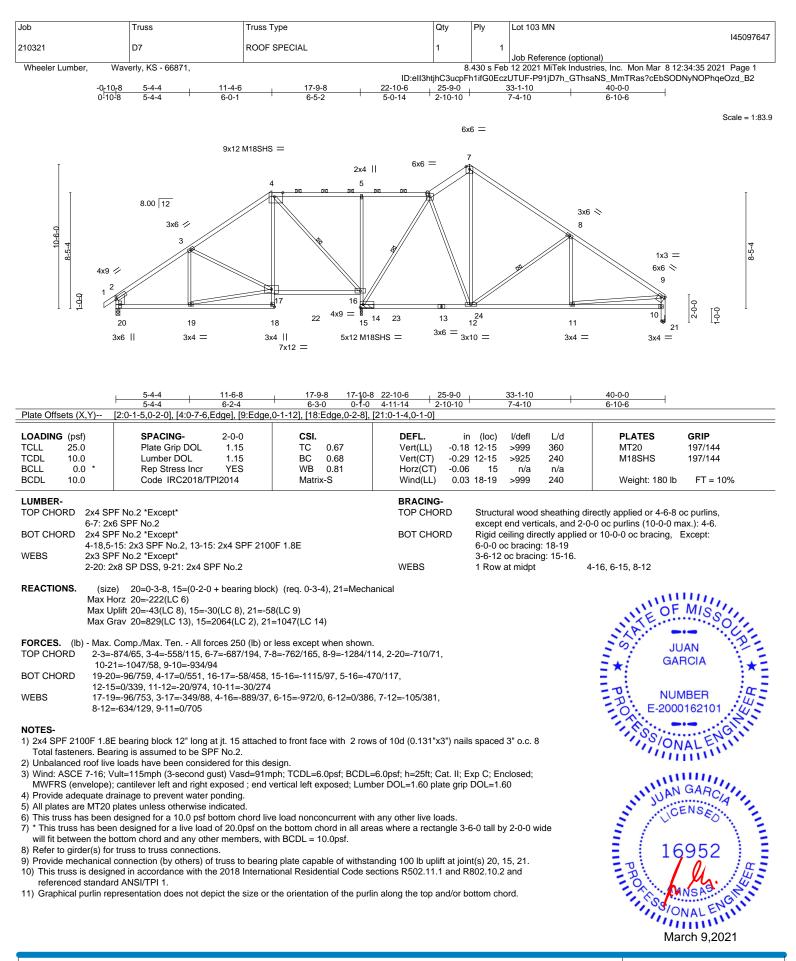
Milek

16023 Swingley Ridge Rd Chesterfield, MO 63017



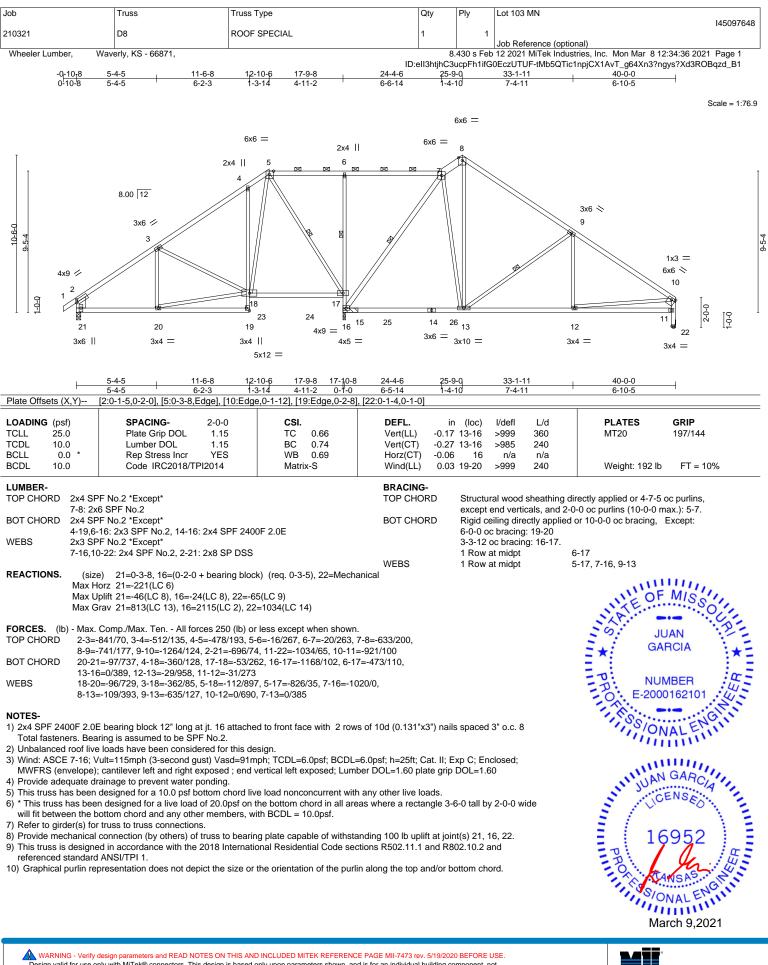
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 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

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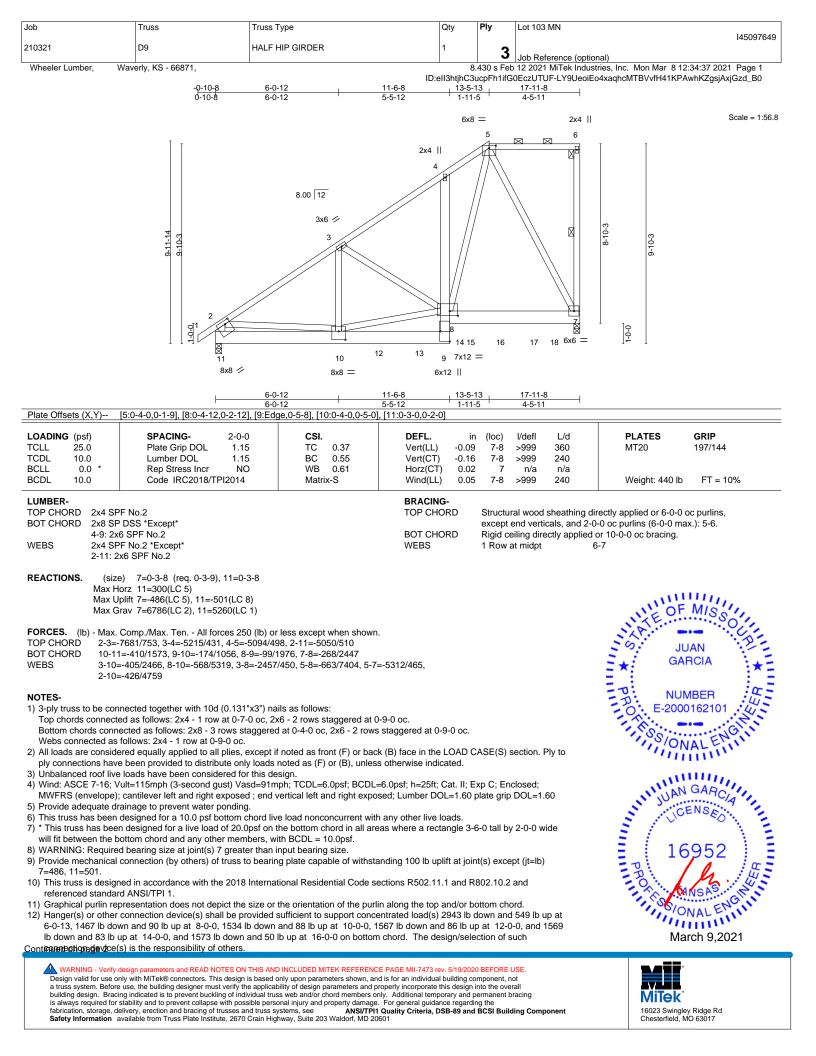


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16023 Swingley Ridge Rd Chesterfield, MO 63017







| ſ | Job | Truss | Truss Type | Qty | Ply | Lot 103 MN |
|---|----------------------|-------------------|-----------------|-----|-----------|---|
| | | | | | | 145097649 |
| | 210321 | D9 | HALF HIP GIRDER | 1 | 2 | |
| | | | | | 3 | Job Reference (optional) |
| | Wheeler Lumber, Wave | erly, KS - 66871, | | 8. | 430 s Feb | 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:37 2021 Page 2 |

ID:eII3htjhC3ucpFh1ifG0EczUTUF-LY9UeoiEo4xaqhcMTBVvfH41KPAwhKZgsjAxjGzd_B0

LOAD CASE(S) Standard

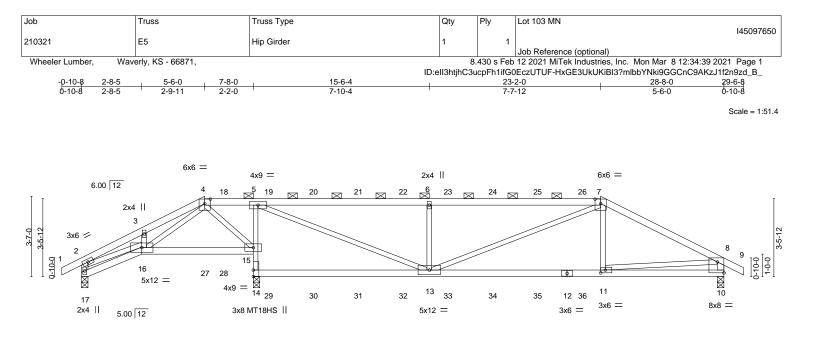
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-70, 2-5=-70, 5-6=-70, 9-11=-20, 7-8=-20

Concentrated Loads (lb)

Vert: 10=-2943(B) 12=-1467(B) 13=-1465(B) 14=-1465(B) 16=-1464(B) 18=-1464(B)





| ⊢ | 2-8-5 | 5-6-0 | 7-8-0 7-9-12 | 15-6-4 | | | | 3-2-0 | | 28-8-0 | |
|--|---|--|--|--|---|-------------------------|--|---------------------------------------|---------------------------------|--|---|
| Plate Offsets (X | 2-8-5 | 2-9-11 | 2-2-0 0-1-12 | <u>7-8-8</u> 9,0-5-13], [11:0-2-8,0-1-8] | 1 | | 7- | 7-12 | | 5-6-0 | |
| Fidle Olisels (A | (,1) [4.0- | 5-0,0-2-7], [7.0-5 | -0,0-2-7], [10.Euge | ;,0-5-15j, [11.0-2-0,0-1-0] | | | | | | | |
| LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0 | 0 0 0 * | SPACING- Plate Grip DOL Lumber DOL Rep Stress Inc Code IRC2018 | 1.15 r NO | CSI. TC 0.79 BC 0.88 WB 0.84 Matrix-S | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | -0.14 -0.30 -0.02 | (loc) 13-14 13-14 14 14 11-13 | l/defl >999 >826 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 MT18HS Weight: 103 lb | GRIP 197/144 197/144 FT = 10% |
| | 2x4 SPF No 5-14: 2x3 S 2x3 SPF No | F 2100F 1.8E 0.2 *Except* | | | BRACING TOP CHC BOT CHC | 3-)RD | Structu | end verti | sheathing di cals, and 2-0 | rectly applied or 3-9-8 c 0-0 oc purlins (4-1-3 ma or 2-7-13 oc bracing. | |
| REACTIONS. | Max Horz Max Uplift | | -8, 10=0-3-8 =-501(LC 5), 10=-2 4=2038(LC 1), 10 | | | | | | | INTE OF | MISSO |
| FORCES. (Ib) TOP CHORD BOT CHORD | 2-3=-740/ 2-17=-410 | 202, 3-4=-726/26 0/134, 8-10=-1294 | 7, 5-6=-2104/466, 4/298 | less except when shown 6-7=-2107/467, 7-8=-205 28/1755, 10-11=-133/345 | 50/439, | | | | | | JAN RCIA |
| WEBS | 4-16=-235 | 5/720, 4-15=-297/ | , | 892, 6-13=-795/358, 7-13 | | | | | | PR. NUN P. E-2000 | MBER 44 |
| NOTES- | | | | | | | | | | | |
| 2) Wind: ASCE | 7-16; Vult= velope) gabl | 115mph (3-second | | sign. ph; TCDL=6.0psf; BCDL= exposed ; end vertical le | | | | | ate | ISS/ON | ALENGII |
| | | ge to prevent wat | er ponding. | | | | | | | | ш <u>п.</u> |
| | | s unless otherwis | | | | | | | | | GAD |
| | | | | e load nonconcurrent with | | | | | | 111 UAN | CIA |
| | | | | he bottom chord in all are | eas where a recta | angle 3-6 | 5-0 tall b | y 2-0-0 w | ide | N | ENSE |
| | oint(s) 17 cor | | | ANSI/TPI 1 angle to grair | n formula. Buildi | ng desig | ner shou | ıld verify | | The Lot | |
| 8) Provide mec | hanical conr | |) of truss to bearin | g plate capable of withsta | anding 100 lb up | lift at joir | nt(s) 17 e | except (jt= | =lb) | 16 | 952 |
| 14=501, 10= 9) This truss is | | accordance with t | the 2018 Internatio | onal Residential Code see | ctions R502.11.1 | and R8 | 02.10.2 ; | and | | = 2 | 10 1953 |

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

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

Continued on page 2

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March 9,2021



| [| Job | Truss | Truss Type | Qty | Ply | Lot 103 MN |
|---|----------------------|-------------------|------------|-----|-----|---|
| | | | | | | 145097650 |
| | 210321 | E5 | Hip Girder | 1 | 1 | Job Reference (optional) |
| l | Wheeler Lumber. Wave | erly, KS - 66871, | | 8. | | 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:39 2021 Page 2 |

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 105 lb down and 97 lb up at 6-4-0, 100 lb down and 63 lb up at 8-4-0, 100 lb down and 63 lb up at 10-4-0, 100 lb down and 63 lb up at 12-4-0, 100 lb down and 63 lb up at 14-4-0, 100 lb down and 63 lb up at 16 up at 18-4-0, and 100 lb down and 63 lb up at 20-4-0, and 98 lb down and 63 lb up at 22-4-0 on top chord, and 227 lb down and 143 lb up at 5-6-0, 33 lb down at 6-4-0, 32 lb down at 8-4-0, 32 lb down at 10-4-0, 32 lb down

ID:ell3htjhC3ucpFh1ifG0EczUTUF-HxGE3UkUKiBI3?mlbbYNki9GGCnC9AKzJ1f2n9zd_B_

down at 22-4-0, and 229 lb down and 140 lb up at 23-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 12) 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

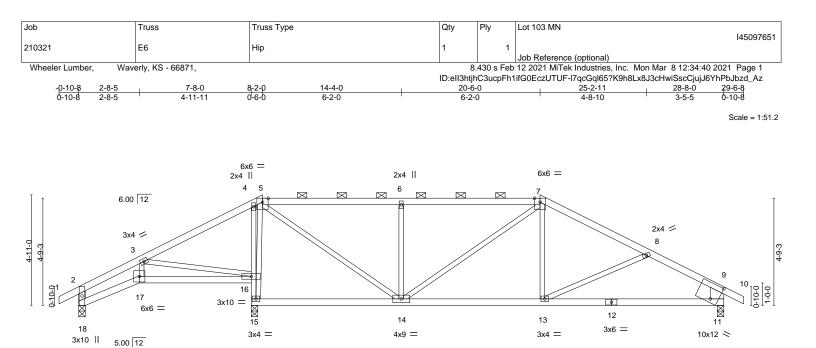
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 4-7=-70, 7-8=-70, 8-9=-70, 16-17=-20, 15-16=-20, 10-14=-20

Concentrated Loads (lb)

Vert: 11=-229(B) 18=-46(B) 19=-46(B) 20=-46(B) 21=-46(B) 22=-46(B) 23=-46(B) 24=-46(B) 25=-46(B) 26=-46(B) 27=-227(B) 28=-21(B) 29=-22(B) 30=-22(B) 30=-22(B 31=-22(B) 32=-22(B) 33=-22(B) 34=-22(B) 35=-22(B) 36=-22(B)



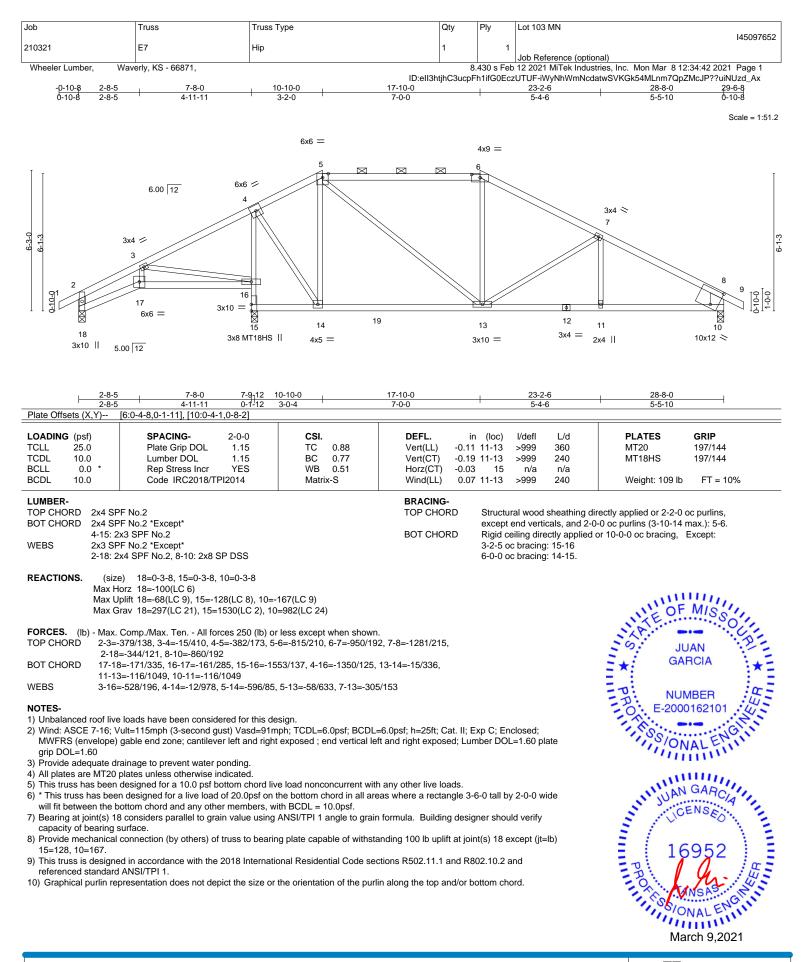


| | -8-5 -8-5 | 7-8-0 4-11-11 | <u>7-9-12</u> 0-1-12 | 14-4-0 6-6-4 | | + | <u>20-6-</u> 6-2-(| | | | 28-8-0 8-2-0 | |
|--|---|---|--|--|---------------------------------------|--|----------------------------------|--|---------------------------------------|---------------------------------|--|------------------------------------|
| Plate Offsets (X,Y)- | - [11:0-4-1 | ,0-8-2] | | | | | | | | | | |
| LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | Pla Lu Re | PACING- ate Grip DOL Imber DOL ep Stress Incr ode IRC2018/TF | 2-0-0 1.15 1.15 YES Pl2014 | CSI. TC 0.74 BC 0.54 WB 0.41 Matrix-S | | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | -0.09 -0.19 -0.03 | (loc) 11-13 11-13 15 13-14 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 107 lb | GRIP 197/144 FT = 10% |
| 80T CHORD 2x4 4-19 WEBS 2x3 | : 2x4 SPF No SPF No.2 *E 5: 2x3 SPF N SPF No.2 *E | Except* lo.2 | SP DSS | | | BRACING- TOP CHOF BOT CHOF | RD | except | end verti | cals, and 2-0 | rectly applied or 4-11-1)-0 oc purlins (5-6-6 ma or 4-9-8 oc bracing. | |
| Ma Ma | x Horz 18=-8 x Uplift 18=-6 | 0-3-8, 15=0-3-8, ⁻ 85(LC 6) 64(LC 8), 15=-14 805(LC 21), 15=1 | 46(LC 5), 11=- | | | | | | | | IN A TE OF | MISSO |
| TOP CHORD 2- 8- BOT CHORD 17 | -3=-381/125, -9=-1248/205 7-18=-137/30 1-13=-124/98 | 3-4=-19/305, 5-6 5, 2-18=-358/114 08, 16-17=-129/2 88 | 6=-919/247, 6- I, 9-11=-895/18 270, 15-16=-75 | less except when sh 7=-917/246, 7-8=-11 0 5/239, 4-16=-602/22 03, 6-14=-512/210, 7 | 31/186, 9, 13-14= | , | | | | | ★ GAF | IAN RCIA |
| | 6; Vult=115m pe) gable end | nph (3-second gu d zone; cantileve | ust) Vasd=91m er left and right | sign. ph; TCDL=6.0psf; B(exposed ; end vertic | | | | | | ate | E-2000 | ALENGINI |
| 4) This truss has be 5) * This truss has be will fit between th 6) Bearing at joint(s capacity of bearin 7) Provide mechanin 15=146, 11=140. 8) This truss is desi | een designed been designe ne bottom cho s) 18 consider ng surface. ical connectio igned in acco | I for a 10.0 psf bo ad for a live load ord and any othe rs parallel to grai on (by others) of ordance with the | ottom chord liv of 20.0psf on t er members. in value using truss to bearin | e load nonconcurren he bottom chord in a ANSI/TPI 1 angle to g plate capable of wi onal Residential Code | ll areas w grain form thstandin | here a rectar nula. Building g 100 lb uplif | ngle 3-6 g desig t at join | ner shou nt(s) 18 e | uld verify except (jt= | ide =lb) | PRO 16 | GARCIA INSEO |
| referenced stand 9) Graphical purlin | | | ct the size or th | e orientation of the p | urlin alon | g the top and | l/or bot | tom cho | rd. | | 1115510 | NSAS CHUIN |

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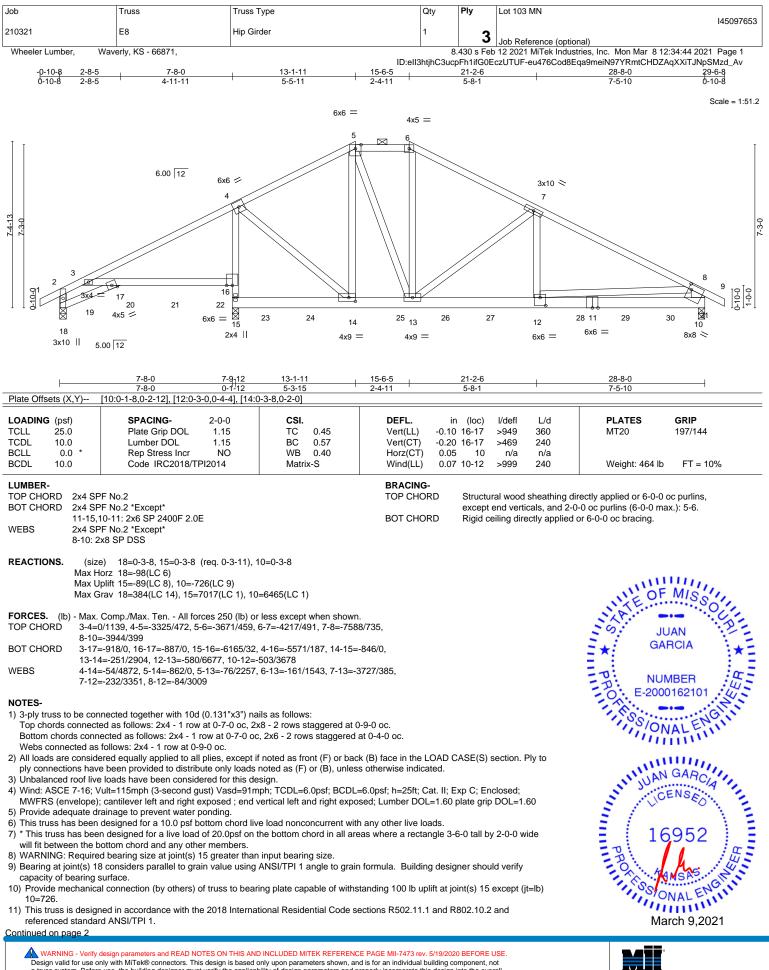
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March 9,2021



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16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

| Job | Truss | Truss Type | Qty | Ply | Lot 103 MN |
|-----------------|----------------------|------------|-----|------------|---|
| 210321 | E8 | Hip Girder | 1 | | 145097653 |
| 210521 | LO | | 1 | 3 | Job Reference (optional) |
| Wheeler Lumber, | Waverly, KS - 66871, | | 8 | .430 s Feb | 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:44 2021 Page 2 |

8.430 s Feb 12 2021 Mi l ek Industries, Inc. Mon Mar 8 12:34:44 2021 Page 2 ID:ell3htjhC3ucpFh1ifG0EczUTUF-eu476Cod8Eqa9meiN97YRmtCHDZAqXXiTJNpSMzd_Av

NOTES-

12) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 260 lb down at 0-11-13, 240 lb down at 3-1-7, 240 lb down at 5-1-7, 240 lb down at 7-1-7, 919 lb down and 85 lb up at 9-1-7, 935 lb down and 78 lb up at 11-1-7, 900 lb down and 85 lb up at 13-1-7, 900 lb down and 74 lb up at 15-1-7, 882 lb down and 67 lb up at 17-1-7, 978 lb down and 44 lb up at 19-1-7, 941 lb down and 37 lb up at 21-1-7, 949 lb down and 148 lb up at 23-1-7, 977 lb down and 151 lb up at 25-1-7, and 977 lb down and 154 lb up at 27-1-7, and 971 lb down and 156 lb up at 27-5-4 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, 2-5=-70, 5-6=-70, 6-8=-70, 8-9=-70, 17-18=-20, 16-17=-20, 10-15=-20 Concentrated Loads (lb)

Vert: 14=-868(F) 12=-941(F) 19=-260(F) 20=-240(F) 21=-240(F) 22=-240(F) 23=-877(F) 24=-894(F) 25=-869(F) 26=-882(F) 27=-978(F) 28=-949(F) 29=-977(F) 30=-977(F) 31=-971(F)

2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-57, 2-5=-58, 5-6=-58, 6-8=-58, 8-9=-57, 17-18=-20, 16-17=-20, 10-15=-20

Concentrated Loads (lb)

Vert: 14=-900(F) 12=-807(F) 19=-260(F) 20=-204(F) 21=-204(F) 22=-204(F) 23=-919(F) 24=-935(F) 25=-900(F) 26=-757(F) 27=-838(F) 28=-814(F) 29=-838(F) 30=-838(F) 31=-833(F)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-6=-20, 6-8=-20, 8-9=-20, 17-18=-40, 16-17=-40, 10-15=-40

Concentrated Loads (lb)

Vert: 14=-551(F) 12=-594(F) 19=-260(F) 20=-133(F) 21=-133(F) 22=-133(F) 23=-561(F) 24=-572(F) 25=-551(F) 26=-558(F) 27=-611(F) 28=-599(F) 29=-623(F) 30=-622(F) 31=-612(F)

4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=11, 2-5=-3, 5-6=16, 6-8=8, 8-9=3, 17-18=-12, 16-17=-12, 10-15=-12

Horz: 1-2=-23, 2-5=-9, 6-8=20, 8-9=15, 2-18=12, 8-10=18

Concentrated Loads (lb)

Vert: 14=77(F) 12=29(F) 19=-260(F) 20=-57(F) 21=-57(F) 22=-57(F) 23=77(F) 24=70(F) 25=66(F) 26=59(F) 27=36(F) 28=140(F) 29=143(F) 30=146(F) 31=148(F) 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=3, 2-5=8, 5-6=16, 6-8=-3, 8-9=11, 17-18=-12, 16-17=-12, 10-15=-12

Horz: 1-2=-15, 2-5=-20, 6-8=9, 8-9=23, 2-18=-18, 8-10=-12

Concentrated Loads (lb)

Vert: 14=77(F) 12=29(F) 19=-260(F) 20=-57(F) 21=-57(F) 22=-57(F) 23=77(F) 24=70(F) 25=66(F) 26=59(F) 27=36(F) 28=140(F) 29=143(F) 30=146(F) 31=148(F) 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-17, 2-5=-23, 5-6=-3, 6-8=-11, 8-9=-5, 17-18=-20, 16-17=-20, 10-15=-20

Horz: 1-2=-3, 2-5=3, 6-8=9, 8-9=15, 2-18=24, 8-10=6

Concentrated Loads (lb)

Vert: 14=85(F) 12=37(F) 19=-260(F) 20=-49(F) 21=-49(F) 22=-49(F) 23=85(F) 24=78(F) 25=74(F) 26=67(F) 27=44(F) 28=148(F) 29=151(F) 30=154(F) 31=156(F) 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-5, 2-5=-11, 5-6=-3, 6-8=-23, 8-9=-17, 17-18=-20, 16-17=-20, 10-15=-20

Horz: 1-2=-15, 2-5=-9, 6-8=-3, 8-9=3, 2-18=-6, 8-10=-24

Concentrated Loads (lb)

Vert: 14=85(F) 12=37(F) 19=-260(F) 20=-49(F) 21=-49(F) 22=-49(F) 23=85(F) 24=78(F) 25=74(F) 26=67(F) 27=44(F)

28=148(F) 29=151(F) 30=154(F) 31=156(F)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=11, 2-5=16, 5-6=6, 6-8=6, 8-9=0, 17-18=-12, 16-17=-12, 10-15=-12

Horz: 1-2=-23, 2-5=-28, 6-8=18, 8-9=12, 2-18=7, 8-10=15

Concentrated Loads (lb)

Vert: 14=77(F) 12=29(F) 19=-260(F) 20=-57(F) 21=-57(F) 22=-57(F) 23=77(F) 24=70(F) 25=66(F) 26=59(F) 27=36(F)

28=140(F) 29=143(F) 30=146(F) 31=148(F) 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

```
Uniform Loads (plf)
```

Vert: 1-2=0, 2-5=6, 5-6=6, 6-8=16, 8-9=11, 17-18=-12, 16-17=-12, 10-15=-12

Horz: 1-2=-12, 2-5=-18, 6-8=28, 8-9=23, 2-18=-15, 8-10=-7

Concentrated Loads (lb)

Vert: 14=77(F) 12=29(F) 19=-260(F) 20=-57(F) 21=-57(F) 22=-57(F) 23=77(F) 24=70(F) 25=66(F) 26=59(F) 27=36(F)

28=140(F) 29=143(F) 30=146(F) 31=148(F)

10) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=3, 2-5=-3, 5-6=-14, 6-8=-14, 8-9=-8, 17-18=-20, 16-17=-20, 10-15=-20

Horz: 1-2=-23, 2-5=-17, 6-8=6, 8-9=12, 2-18=19, 8-10=4

Concentrated Loads (lb)

Vert: 14=85(F) 12=37(F) 19=-260(F) 20=-49(F) 21=-49(F) 22=-49(F) 23=85(F) 24=78(F) 25=74(F) 26=67(F) 27=44(F) 28=148(F) 29=151(F) 30=154(F) 31=156(F)

11) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3



| Job | Truss | Truss Type | Qty | | Ply | Lot 103 MN | 145097653 |
|--|--|---|---------------------|--------|-----------|--|--------------------|
| 210321 | E8 | Hip Girder | 1 | | 3 | Ich Poference (astisse) | 143037033 |
| Wheeler Lumber, W | averly, KS - 66871, | | | | 130 s Feb | Job Reference (optional) 12 2021 MiTek Industries, Inc. Mon Mar | |
| | | | ID:ell3htjhC3 | Bucpl | Fh1ifG0E | czUTUF-eu476Cod8Eqa9meiN97YRmtCH | DZAqXXiTJNpSMzd_Av |
| LOAD CASE(S) Standa Uniform Loads (plf) | ard | | | | | | |
| Vert: 1-2=-8 | | 3, 8-9=3, 17-18=-20, 16-17=-20, 10-15=- | 20 | | | | |
| Horz: 1-2=- Concentrated Loads | 12, 2-5=-6, 6-8=17, 8-9=2 (lb) | 3, 2-18=-4, 8-10=-19 | | | | | |
| Vert: 14=85 | (F) 12=37(F) 19=-260(F) | | | F) 26 | =67(F) 2 | 27=44(F) 28=148(F) 29=151(F) 30=154(| F) 31=156(F) |
| Dead + Uninhabitab Uniform Loads (plf) | le Attic Storage: Lumber I | ncrease=0.90, Plate Increase=0.90 Plt. r | netal=0.90 | | | | |
| Vert: 1-2=-2 | | -20, 8-9=-20, 17-18=-20, 16-17=-20, 10- | 15=-20 | | | | |
| Concentrated Loads Vert: 14=-58 | () | (F) 20=-95(F) 21=-95(F) 22=-95(F) 23=- | 601(F) 24=-611(F) | 25= | -581(F) 2 | 26=-380(F) 27=-418(F) 28=-408(F) 29=-4 | 422(F) |
| 30=-422(F) | 31=-417(F) | | ., ., | | | | |
| 13) Dead + 0.75 Roof Li Uniform Loads (plf) | ve (bal.) + 0.75(0.6 MWFF | RS Wind (Neg. Int) Left): Lumber Increas | e=1.60, Plate Incre | ease | =1.60 | | |
| Vert: 1-2=-5 | | -51, 8-9=-47, 17-18=-20, 16-17=-20, 10- | 15=-20 | | | | |
| Concentrated Loads | 2, 2-5=2, 6-8=7, 8-9=11, 2 ; (lb) | -18=18, 8-10=5 | | | | | |
| | | | | | | 28(F) 28=52(F) 29=52(F) 30=55(F) 31=5 | 7(F) |
| Uniform Loads (plf) | ve (bal.) + 0.75(0.6 MWFF | RS Wind (Neg. Int) Right): Lumber Increa | ase=1.60, Plate Inc | reas | e=1.60 | | |
| | | -59, 8-9=-55, 17-18=-20, 16-17=-20, 10- | 15=-20 | | | | |
| Concentrated Loads | 11, 2-5=-7, 6-8=-2, 8-9=2, (lb) | 2-18=-5, 8-10=-18 | | | | | |
| Vert: 14=9(I | F) 12=-31(F) 19=-260(F) 2 | 20=-49(F) 21=-49(F) 22=-49(F) 23=9(F) 2 RS Wind (Neg. Int) 1st Parallel): Lumber | | | | 28(F) 28=52(F) 29=52(F) 30=55(F) 31=5 | 7(F) |
| Uniform Loads (plf) | ve (bal.) + 0.75(0.6 MWVFr | (S Wind (Neg. III) ISt Parallel). Lumber | Increase=1.00, Pla | ate ir | iciease= | 1.60 | |
| | , , , | -53, 8-9=-48, 17-18=-20, 16-17=-20, 10- | 15=-20 | | | | |
| Concentrated Loads | 17, 2-5=-12, 6-8=5, 8-9=9 (lb) | , 2-18=14, 8-10=3 | | | | | |
| | | 20=-49(F) 21=-49(F) 22=-49(F) 23=9(F) 2 RS Wind (Neg. Int) 2nd Parallel): Lumbe | | | | 28(F) 28=52(F) 29=52(F) 30=55(F) 31=5 | 7(F) |
| Uniform Loads (plf) | ve (bal.) + 0.75(0.0 WWFF | (Neg. III) 210 Falallel). Lumbe | Increase=1.00, Fi | ale i | liciease | =1.00 | |
| | 8, 2-5=-53, 5-6=-53, 6-8= 9, 2-5=-5, 6-8=12, 8-9=17 | -45, 8-9=-41, 17-18=-20, 16-17=-20, 10- 2-18=-3, 8-10=-14 | 15=-20 | | | | |
| Concentrated Loads | | , 2-103, 0-1014 | | | | | |
| | | 0=-49(F) 21=-49(F) 22=-49(F) 23=9(F) 2 ncrease=1.60, Plate Increase=1.60 | 24=2(F) 25=1(F) 26 | 6=-5(| F) 27=-2 | 28(F) 28=52(F) 29=52(F) 30=55(F) 31=5 | 7(F) |
| Uniform Loads (plf) | Wind Win. Left. Lumber in | 100, 1 late increase - 1.00 | | | | | |
| Vert: 1-2=-1 Horz: 2-5=4 | | -12, 8-9=-12, 17-18=-12, 16-17=-12, 10- | 15=-12 | | | | |
| Concentrated Loads | (lb) | | | | | | |
| | | 20=-57(F) 21=-57(F) 22=-57(F) 23=11(F Increase=1.60, Plate Increase=1.60 | F) 24=5(F) 25=4(F) | 26= | -3(F) 27= | =-30(F) 28=78(F) 29=76(F) 30=79(F) 31 | =81(F) |
| Uniform Loads (plf) | | | | | | | |
| Vert: 1-2=-1 Horz: 6-8=-/ | | -16, 8-9=-12, 17-18=-12, 16-17=-12, 10- | 15=-12 | | | | |
| Concentrated Loads | (lb) | | | | | | |
| | | 20=-57(F) 21=-57(F) 22=-57(F) 23=11(F hcrease=1.15, Plate Increase=1.15 | F) 24=5(F) 25=4(F) | 26= | -3(F) 27= | =-30(F) 28=78(F) 29=76(F) 30=79(F) 31= | =81(F) |
| Uniform Loads (plf) | · · · · | | | | | | |
| Vert: 1-2=-7 Concentrated Loads | | -20, 8-9=-20, 17-18=-20, 16-17=-20, 10- | 15=-20 | | | | |
| Vert: 14=-86 | 68(F) 12=-941(F) 19=-260 | (F) 20=-240(F) 21=-240(F) 22=-240(F) 2 | 23=-877(F) 24=-894 | 4(F) : | 25=-869 | (F) 26=-882(F) | |
| | 28=-949(F) 29=-977(F) 30 /e (unbalanced): Lumber I | rcrease=1.15, Plate Increase=1.15 | | | | | |
| Uniform Loads (plf) | | 70 8 0 70 17 18 20 16 17 20 10 | 15 - 20 | | | | |
| Concentrated Loads | | -70, 8-9=-70, 17-18=-20, 16-17=-20, 10- | 15=-20 | | | | |
| | 68(F) 12=-941(F) 19=-260 28=-949(F) 29=-977(F) 30 | (F) $20=-240(F) 21=-240(F) 22=-240(F) 2$ | 23=-877(F) 24=-894 | 4(F) : | 25=-869 | (F) 26=-882(F) | |
| | | 5 Uninhab. Attic Storage: Lumber Increa | se=1.15, Plate Inci | rease | e=1.15 | | |
| Uniform Loads (plf) | 7 2 5 - 59 5 6 - 59 6 9 - | -20, 8-9=-20, 17-18=-20, 16-17=-20, 10- | 15- 20 | | | | |
| Concentrated Loads | | -20, 8-9=-20, 17-18=-20, 16-17=-20, 10- | 15=-20 | | | | |
| | 00(F) 12=-807(F) 19=-260 28=-814(F) 29=-838(F) 30 | (F) $20=-204(F) 21=-204(F) 22=-204(F) 2$ | 23=-919(F) 24=-935 | 5(F) | 25=-900 | (F) 26=-757(F) | |
| | | 5 Uninhab. Attic Storage: Lumber Increa | se=1.15, Plate Incr | rease | e=1.15 | | |
| Uniform Loads (plf) Vert: 1-2=-2 | 0 2-5=-20 5-6=-58 6-8= | -58, 8-9=-57, 17-18=-20, 16-17=-20, 10- | 15=-20 | | | | |
| Concentrated Loads | (lb) | | | | | | |
| | 00(F) 12=-807(F) 19=-260 28=-814(F) 29=-838(F) 30 | (F) 20=-204(F) 21=-204(F) 22=-204(F) 2 =-838(F) 31=-833(F) | 23=-919(F) 24=-935 | 5(F) | 25=-900 | (F) 26=-757(F) | |
| 23) Reversal: Dead + 0. | | ernal) Left: Lumber Increase=1.60, Plate | Increase=1.60 | | | | |
| Uniform Loads (plf) Vert: 1-2=1 | 1, 2-5=-3, 5-6=16, 6-8=8 | 8-9=3, 17-18=-12, 16-17=-12, 10-15=-12 | 1 | | | | |
| | 23, 2-5=-9, 6-8=20, 8-9=1 | | | | | | |
| | | | | | | | |
| | | | | | | | |

Continued on page 4



| Job | Truss | Truss Type | Qty | Ply | Lot 103 MN | |
|--|---|--|-------------------------|-------------------------|---|-------------------------------|
| 210321 | E8 | Hip Girder | 1 | | | 145097653 |
| | | | | 3 | | Mar. 0.40:04:44.0004. Date: 4 |
| Wheeler Lumber, W | /averly, KS - 66871, | | ID:ell3htjhC3 | | eb 12 2021 MiTek Industries, Inc. Mon I EczUTUF-eu476Cod8Eqa9meiN97YRn | |
| LOAD CASE(S) Standa | ard | | | | | |
| Concentrated Loads | s (lb) | | | | | |
| Vert: 14=-5 30=-532(F) | | (F) 20=-116(F) 21=-116(F) 22=-116(| F) 23=-510(F) 24=-512 | (F) 25=-49 | 7(F) 26=-494(F) 27=-529(F) 28=-514 | (F) 29=-531(F) |
| 24) Reversal: Dead + 0. | | rnal) Right: Lumber Increase=1.60, | Plate Increase=1.60 | | | |
| Uniform Loads (plf) Vert: 1-2=3 | 2-5=8 5-6=16 6-8=-3 8- | 9=11, 17-18=-12, 16-17=-12, 10-15= | -12 | | | |
| Horz: 1-2=- | 15, 2-5=-20, 6-8=9, 8-9=23 | | - 12 | | | |
| Concentrated Loads | | (F) 20116(F) 21116(F) 22116(| F) 23510(F) 24512 | (F) 2549 | 7(F) 26=-494(F) 27=-529(F) 28=-514 | I/F) 29531/F) |
| 30=-532(F) | 31=-526(F) | | , , , | (1) 20= 40 | 7(1)20= 434(1)21= 323(1)20= 314 | (1) 20 - 001(1) |
| 25) Reversal: Dead + 0. Uniform Loads (plf) | 6 MWFRS Wind (Neg. Inte | ernal) Left: Lumber Increase=1.60, P | late Increase=1.60 | | | |
| Vert: 1-2=-1 | | 1, 8-9=-5, 17-18=-20, 16-17=-20, 10 | -15=-20 | | | |
| Horz: 1-2=- Concentrated Loads | 3, 2-5=3, 6-8=9, 8-9=15, 2 | -18=24, 8-10=6 | | | | |
| | · · / | (F) 20=-108(F) 21=-108(F) 22=-108(| F) 23=-502(F) 24=-504 | (F) 25=-48 | 9(F) 26=-486(F) 27=-521(F) 28=-506 | ö(F) 29=-523(F) |
| 30=-524(F) 26) Reversal: Dead + 0 | | ernal) Right: Lumber Increase=1.60, | Plate Increase-1.60 | | | |
| Uniform Loads (plf) | | , . | | | | |
| | 5, 2-5=-11, 5-6=-3, 6-8=-23 15, 2-5=-9, 6-8=-3, 8-9=3, | 5, 8-9=-17, 17-18=-20, 16-17=-20, 10 2-186, 8-1024 | -15=-20 | | | |
| Concentrated Loads | s (lb) | | | | | |
| Vert: 14=-4 30=-524(F) | () | (F) 20=-108(F) 21=-108(F) 22=-108(| F) 23=-502(F) 24=-504 | (F) 25=-48 | 9(F) 26=-486(F) 27=-521(F) 28=-506 | i(F) 29=-523(F) |
| 27) Reversal: Dead + 0. | | rnal) 1st Parallel: Lumber Increase= | 1.60, Plate Increase=1 | 60 | | |
| Uniform Loads (plf) | 1 2-5=16 5-6=6 6-8=6 8 | -9=0, 17-18=-12, 16-17=-12, 10-15= | -12 | | | |
| Horz: 1-2=- | 23, 2-5=-28, 6-8=18, 8-9= | | 12 | | | |
| Concentrated Loads | | (F) 20=-116(F) 21=-116(F) 22=-116(| F) 23=-510(F) 24=-512 | (F) 25=-49 [.] | 7(F) 26=-494(F) 27=-529(F) 28=-514 | L(F) 29=-531(F) |
| 30=-532(F) | 31=-526(F) | | , , , | . , | | |
| 28) Reversal: Dead + 0. Uniform Loads (plf) | 6 MWFRS Wind (Pos. Inte | rnal) 2nd Parallel: Lumber Increase | =1.60, Plate Increase=1 | .60 | | |
| Vert: 1-2=0 | | 9=11, 17-18=-12, 16-17=-12, 10-15= | -12 | | | |
| Horz: 1-2=- Concentrated Loads | 12, 2-5=-18, 6-8=28, 8-9=2 | 23, 2-18=-15, 8-10=-7 | | | | |
| Vert: 14=-5 | 07(F) 12=-510(F) 19=-260 | (F) 20=-116(F) 21=-116(F) 22=-116(| F) 23=-510(F) 24=-512 | (F) 25=-49 ⁻ | 7(F) 26=-494(F) 27=-529(F) 28=-514 | (F) 29=-531(F) |
| | 31=-526(F) 6 MWERS Wind (Neg. Inte | ernal) 1st Parallel: Lumber Increase= | 1 60 Plate Increase=1 | 60 | | |
| Uniform Loads (plf) | | | | .00 | | |
| | , 2-5=-3, 5-6=-14, 6-8=-14, 23, 2-5=-17, 6-8=6, 8-9=12 | 8-9=-8, 17-18=-20, 16-17=-20, 10-1 2-18=19 8-10=4 | 5=-20 | | | |
| Concentrated Loads | s (lb) | | | | | |
| | 99(F) 12=-502(F) 19=-260 31=-518(F) | (F) 20=-108(F) 21=-108(F) 22=-108(| F) 23=-502(F) 24=-504 | (F) 25=-48 | 9(F) 26=-486(F) 27=-521(F) 28=-506 | i(F) 29=-523(F) |
| 30) Reversal: Dead + 0. | | ernal) 2nd Parallel: Lumber Increase | =1.60, Plate Increase= | 1.60 | | |
| Uniform Loads (plf) Vert: 1-2=-8 | 3. 2-5=-14. 5-6=-14. 6-8=-3 | , 8-9=3, 17-18=-20, 16-17=-20, 10-1 | 5=-20 | | | |
| Horz: 1-2=- | 12, 2-5=-6, 6-8=17, 8-9=23 | | 0 20 | | | |
| Concentrated Loads Vert: 14=-4 | | (F) 20=-108(F) 21=-108(F) 22=-108(| F) 23=-502(F) 24=-504 | (F) 25=-48 | 9(F) 26=-486(F) | |
| 27=-521(F) | 28=-506(F) 29=-523(F) 30 | =-524(F) 31=-518(F) | , , , | . , | | |
| 31) Reversal: Dead + 0. Uniform Loads (plf) | 75 Roof Live (bal.) + 0.75(| 0.6 MWFRS Wind (Neg. Int) Left): Lu | umber Increase=1.60, I | Plate Increa | ISE=1.60 | |
| Vert: 1-2=-5 | | 51, 8-9=-47, 17-18=-20, 16-17=-20, | 10-15=-20 | | | |
| Concentrated Loads | 2, 2-5=2, 6-8=7, 8-9=11, 2 s (lb) | -18=18, 8-10=5 | | | | |
| | | (F) 20=-186(F) 21=-186(F) 22=-186(| F) 23=-875(F) 24=-886 | (F) 25=-85 | 5(F) 26=-742(F) | |
| | 28=-787(F) 29=-810(F) 30 75 Roof Live (bal.) + 0.75(| =-810(F) 31=-805(F) 0.6 MWFRS Wind (Neg. Int) Right): | Lumber Increase=1.60 | Plate Incre | ease=1.60 | |
| Uniform Loads (plf) | | | | | | |
| | +7, 2-5=-51, 5-6=-45, 6-8=- 11, 2-5=-7, 6-8=-2, 8-9=2, | 59, 8-9=-55, 17-18=-20, 16-17=-20, 2-18=-5, 8-10=-18 | 10-15=-20 | | | |
| Concentrated Loads | | (E) 20 196(E) 21 196(E) 22 196(| E) 22 07E/E) 24 006 | (E) 26 06 | E(E) 26 - 742(E) | |
| | 28=-787(F) 29=-810(F) 30 | (F) 20=-186(F) 21=-186(F) 22=-186()=-810(F) 31=-805(F) | r) 23=-075(r) 24=-000 | (F) 25=-65 | 5(F) 20=-742(F) | |
| , | 75 Roof Live (bal.) + 0.75(| 0.6 MWFRS Wind (Neg. Int) 1st Para | allel): Lumber Increase | =1.60, Plate | e | |
| Increase=1.60 Uniform Loads (plf) | | | | | | |
| Vert: 1-2=-4 | | 53, 8-9=-48, 17-18=-20, 16-17=-20, | 10-15=-20 | | | |
| Horz: 1-2=- Concentrated Loads | 17, 2-5=-12, 6-8=5, 8-9=9, s (lb) | 2-10=14, 0-10=3 | | | | |
| Vert: 14=-8 | | (F) 20=-186(F) 21=-186(F) 22=-186(| F) 23=-875(F) 24=-886 | (F) 25=-85 | 5(F) 26=-742(F) | |
| 27=-010(F) | 20-101(F) 20=010(F) 30 | - 010(1) 01- - 000(F) | | | | |

Continued on page 5



| Job | Truss | Truss Type | Qty | Ply | Lot 103 MN |
|----------------------|-------------------|------------|-----|-----|---|
| | | | | | 145097653 |
| 210321 | E8 | Hip Girder | 1 | 3 | Job Reference (optional) |
| Wheeler Lumber, Wave | erly, KS - 66871, | | 8 | | 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:44 2021 Page 5 |

Wheeler Lumber, Waverly, KS - 66871,

ID:ell3htjhC3ucpFh1ifG0EczUTUF-eu476Cod8Eqa9meiN97YRmtCHDZAqXXiTJNpSMzd_Av

LOAD CASE(S) Standard

34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-48, 2-5=-53, 5-6=-53, 6-8=-45, 8-9=-41, 17-18=-20, 16-17=-20, 10-15=-20

Horz: 1-2=-9, 2-5=-5, 6-8=12, 8-9=17, 2-18=-3, 8-10=-14

Concentrated Loads (lb)

Vert: 14=-862(F) 12=-779(F) 19=-260(F) 20=-186(F) 21=-186(F) 22=-186(F) 23=-875(F) 24=-886(F) 25=-855(F) 26=-742(F) 27=-810(F) 28=-787(F) 29=-810(F) 29=-810(F) 20=-810(F) 20=-8 30=-810(F) 31=-805(F)

35) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-12, 2-5=-16, 5-6=-12, 6-8=-12, 8-9=-12, 17-18=-12, 16-17=-12, 10-15=-12

Horz: 2-5=4, 2-18=16 Concentrated Loads (lb)

Vert: 14--444(F) 12=-449(F) 19=-260(F) 20=-110(F) 21=-110(F) 22=-110(F) 23=-445(F) 24=-447(F) 25=-435(F) 26=-432(F) 27=-463(F) 28=-453(F) 29=-464(F)

30=-464(F) 31=-459(F)

36) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

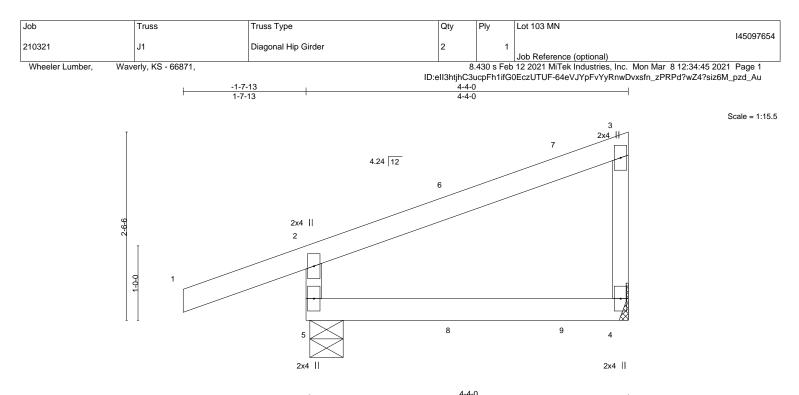
Vert: 1-2=-12, 2-5=-12, 5-6=-12, 6-8=-16, 8-9=-12, 17-18=-12, 16-17=-12, 10-15=-12

Horz: 6-8=-4, 8-10=-16

Concentrated Loads (lb)

Vert: 14=-444(F) 12=-449(F) 19=-260(F) 20=-110(F) 21=-110(F) 22=-110(F) 23=-445(F) 24=-447(F) 25=-432(F) 26=-432(F) 27=-463(F) 28=-453(F) 29=-464(F) 20=-100(F) 21=-100(F) 22=-100(F) 22=-1 30=-464(F) 31=-459(F)





| | | | 4-3-6 | |
|---------------|----------------------|-------------|----------------------------------|--|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d | PLATES GRIP MT20 197/144 |
| TCLL 25.0 | Plate Grip DOL 1.15 | TC 0.24 | Vert(LL) -0.01 4-5 >999 360 | |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.15 | Vert(CT) -0.03 4-5 >999 240 | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.00 | Horz(CT) -0.00 4 n/a n/a | Weight: 14 lb FT = 10% |
| BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-R | Wind(LL) 0.01 4-5 >999 240 | |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

- 2x3 SPF No.2
- REACTIONS. 5=0-5-6, 4=Mechanical (size) Max Horz 5=107(LC 24) Max Uplift 5=-124(LC 4), 4=-64(LC 5) Max Grav 5=338(LC 1), 4=181(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-298/146

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) 5=124.
- 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.

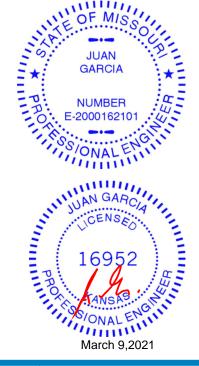
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 19 lb up at 2-0-9, and 86 lb down and 62 lb up at 3-6-14 on top chord, and 11 lb down and 14 lb up at 2-0-9, and 21 lb down at 3-6-14 on bottom chord. The design/selection of such connection 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=-14(B) 8=2(F) 9=-13(B)

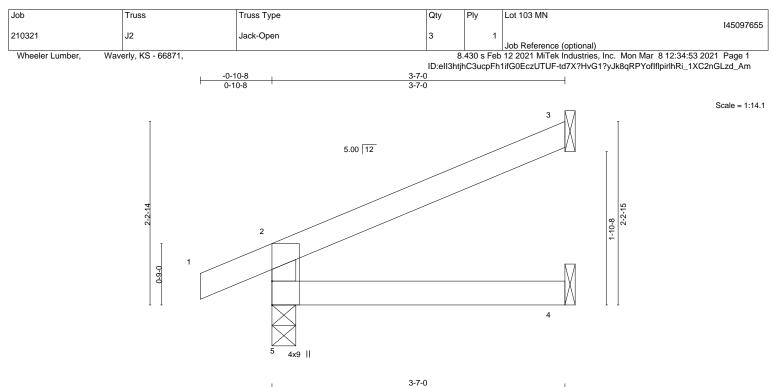


Structural wood sheathing directly applied or 4-4-0 oc purlins,

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

except end verticals.





| | | | | 3-7-0 | |
|----------------|------------------------|--|------------------------|--|--|
| LOADIN TCLL | G (psf) 25.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 | CSI. TC 0.15 | DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.01 4-5 >999 360 MT20 197/144 | |
| TCDL BCLL | 10.0 0.0 * | Lumber DOL 1.15 Rep Stress Incr YES | BC 0.10 WB 0.00 | Vert(CT) -0.01 4-5 >999 240 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% | |

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 3-7-0 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=65(LC 8)

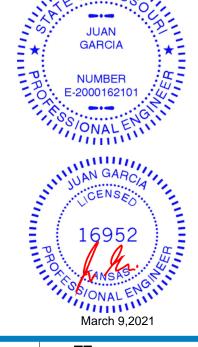
Max Uplift 5=-34(LC 8), 3=-54(LC 8)

Max Grav 5=234(LC 1), 3=103(LC 1), 4=63(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) 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.

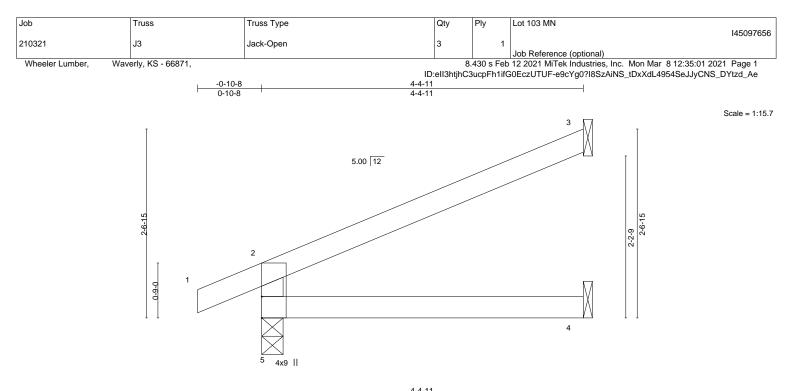


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| | | | 4-4-11 4-4-11 | | | | | |
|---------------|----------------------|----------|------------------|---------|--------|-----|---------------|----------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. | n (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 25.0 | Plate Grip DOL 1.15 | TC 0.26 | Vert(LL) -0.0 | 1 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.16 | Vert(CT) -0.0 | 3 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 | 2 4-5 | >999 | 240 | Weight: 12 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 4-4-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

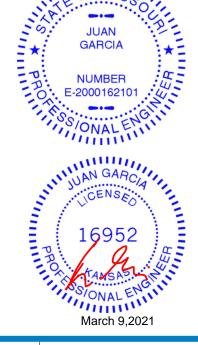
REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=79(LC 8)

Max Uplift 5=-37(LC 8), 3=-67(LC 8) Max Grav 5=268(LC 1), 3=130(LC 1), 4=79(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.
- 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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| Job | Truss | Truss Type | Qty | Ply | Lot 103 MN |
|-----------------|----------------------|-------------------|-------------------------------|----------------------------|--|
| 210321 | J4 | Jack-Open | 3 | 1 | 145097 |
| | | | | | Job Reference (optional) |
| Wheeler Lumber, | Waverly, KS - 66871, | -0-10-8 0-10-8 | ID:eII3htji 1-0-9 1-0-9 | 8.430 s Fel nC3ucpFh1if | b 12 2021 MiTek Industries, Inc. Mon Mar 8 12:35:06 2021 Page 1 G0EczUTUF-?7PRjj3Qz?bTo8KxgmXiKPn2o5Bz_aCxXkizD5zd_AZ |
| | | | | 3 | Scale = 1 |
| | | | | | |
| | | 8.00 12 2x4 | | Δ | |
| | | 2 | / / | | |
| | | 1-8-6 | | | မ ကို |
| | | | | | 8 8 9 |
| | | 0-0-1 | | $\overline{\Lambda}$ | |
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| | | 5 | \times | V | 1 1 |
| | | K | $ \rightarrow $ | | |

1-0-9 1-0-9

4

| LOADING (psf) TCLL 25.0 TCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 | CSI. TC 0.07 BC 0.02 | DEFL. in (loc) I/defl L/d Vert(LL) -0.00 5 >999 240 Vert(CT) -0.00 5 >999 180 | PLATES GRIP MT20 197/144 |
|---|--|-----------------------------------|--|-----------------------------|
| BCLL 0.0 * BCDL 10.0 | Rep Stress Incr YES Code IRC2018/TPI2014 | WB 0.00 Matrix-R | Horz(CT) -0.00 3 n/a n/a | Weight: 4 lb FT = 10% |

2x4 ||

LUMBER-

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

2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

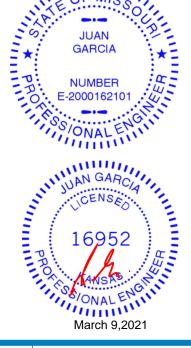
Structural wood sheathing directly applied or 1-0-9 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=42(LC 5) Max Uplift 5=-7(LC 8), 3=-21(LC 8), 4=-10(LC 8) Max Grav 5=146(LC 1), 3=13(LC 6), 4=19(LC 6)

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

NOTES-

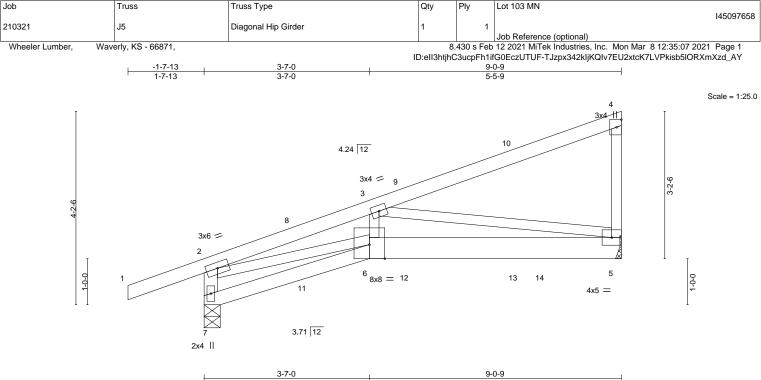
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for 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, 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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| | | | 3-7-0 | | | | 5-5-9 | | | |
|--|---|--------------------|--------------------------------|----------------------------------|-----------------------|-----------------|---------------------|-------------------|----------------|------------------------|
| LOADING (psf) TCLL 25.0 | SPACING- Plate Grip DOL | 2-0-0 1.15 | CSI. TC 0.46 | DEFL. Vert(LL) | -0.05 | (loc) 5-6 | l/defl >999 | L/d 360 | PLATES MT20 | GRIP 197/144 |
| TCDL 10.0 BCLL 0.0 * BCDL 10.0 | Lumber DOL Rep Stress Incr Code IRC2018/TPI | 1.15 NO 2014 | BC 0.56 WB 0.76 Matrix-S | Vert(CT) Horz(CT) Wind(LL) | -0.09 0.03 0.05 | 5-6 5 5-6 | >999 n/a >999 | 240 n/a 240 | Weight: 37 lb | FT = 10% |

- 2x4 SPF No.2 TOP CHORD 2x4 SPF No.2 *Except* BOT CHORD 5-6: 2x6 SPF No.2 WEBS 2x3 SPF No.2 *Except*
- BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-2-11 oc purlins, except end verticals.

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

REACTIONS. (size) 7=0-4-3, 5=Mechanical Max Horz 7=165(LC 5) Max Uplift 7=-198(LC 4), 5=-217(LC 8) Max Grav 7=593(LC 1), 5=625(LC 1)

2-7: 2x4 SPF No.2

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

- TOP CHORD 2-7=-553/219, 2-3=-1213/422
- BOT CHORD 5-6=-487/1091
- WEBS 2-6=-375/1092, 3-6=-44/273, 3-5=-1065/459

NOTES

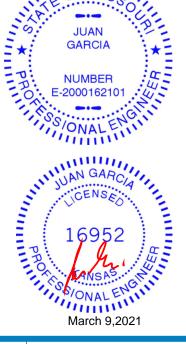
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for 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 airder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=198, 5=217
- 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) 69 lb down and 20 lb up at 2-0-9, 107 lb down and 73 lb up at 3-6-14, and 80 lb down and 58 lb up at 4-4-14, and 105 lb down and 87 lb up at 6-9-3 on top chord, and 13 lb down and 16 lb up at 2-0-9, 15 lb down at 3-7-4, 15 lb down and 16 lb up at 4-4-14, and 28 lb down at 6-9-3, and 259 lb down and 107 lb up at 7-4-3 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

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 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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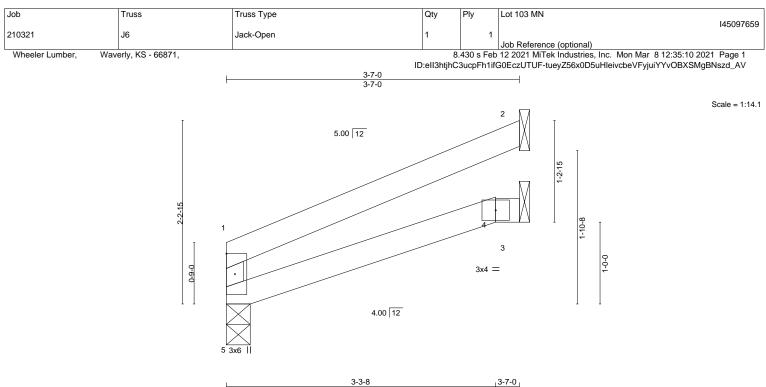
| Job | Truss | Truss Type | Qty | Ply | Lot 103 MN |
|----------------------|------------------|---------------------|-----|-----------|---|
| | | | | | 145097658 |
| 210321 | J5 | Diagonal Hip Girder | 1 | 1 | |
| | | . | | | Job Reference (optional) |
| Wheeler Lumber, Wave | rly, KS - 66871, | | 8 | 430 s Feb | 12 2021 MiTek Industries, Inc. Mon Mar 8 12:35:07 2021 Page 2 |

ID:ell3htjhC3ucpFh1ifG0EczUTUF-TJzpx342kljKQlv7EU2xtcK7LVPkisb5lORXmXzd_AY

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 6-7=-20, 5-6=-20 Concentrated Loads (lb) Vert: 6=-7(B) 10=-23(F) 11=2(F) 12=-0(F) 13=-13(F) 14=-259(B)





| | | | | 3-3-8 | | 0-3-8 | | |
|--------|---------|----------------------|------------|----------|-----------|----------|-----|-----------------------|
| LOADIN | G (psf) | SPACING- 2-0 | -0 CSI. | DEFL. | in (loc |) l/defl | L/d | PLATES GRIP |
| TCLL | 25.0 | Plate Grip DOL 1.1 | 15 TC 0.19 | Vert(LL) | -0.01 4-5 | 5 >999 | 360 | MT20 197/144 |
| TCDL | 10.0 | Lumber DOL 1.1 | 15 BC 0.11 | Vert(CT) | -0.02 4-5 | 5 >999 | 240 | |
| BCLL | 0.0 * | Rep Stress Incr YE | S WB 0.00 | Horz(CT) | 0.01 | 2 n/a | n/a | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | 4 Matrix-R | Wind(LL) | 0.01 4-5 | 5 >999 | 240 | Weight: 9 lb FT = 10% |

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

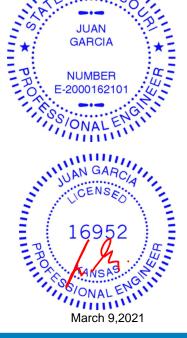
REACTIONS. (size) 5=0-3-8, 2=Mechanical, 3=Mechanical Max Horz 5=50(LC 8) Max Uplift 5=-8(LC 8), 2=-59(LC 8)

Max Grav 5=154(LC 1), 2=113(LC 1), 3=66(LC 3)

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

NOTES-

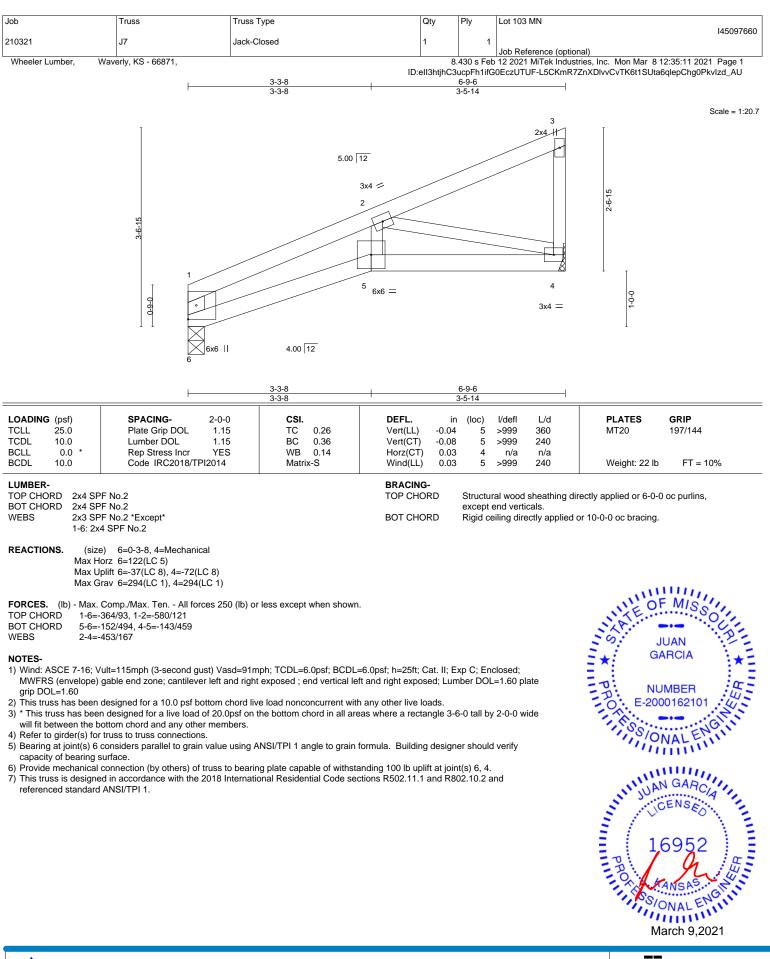
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- 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.



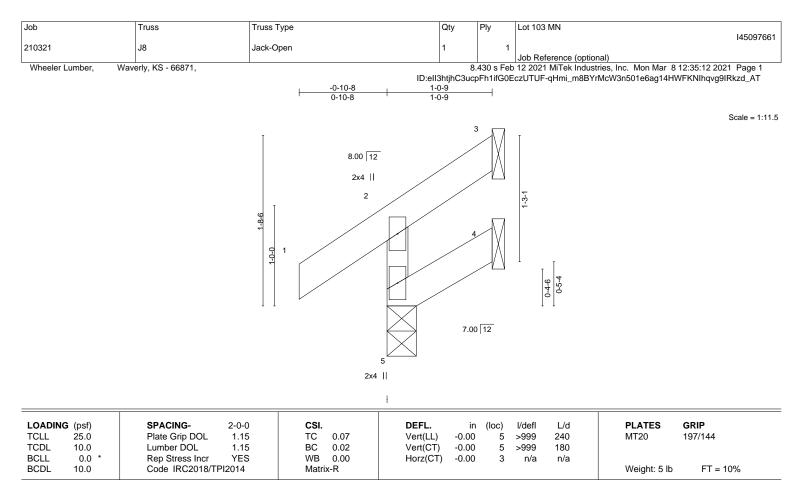
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16023 Swingley Ridge Rd Chesterfield, MO 63017







BRACING-

TOP CHORD

BOT CHORD

| LUMBER- |
|---------|
|---------|

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

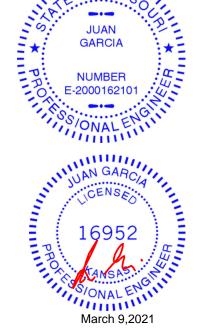
WEBS 2x3 SPF No.2

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=44(LC 5) Max Uplift 5=-4(LC 8), 3=-23(LC 8), 4=-11(LC 8) Max Grav 5=146(LC 1), 3=15(LC 6), 4=21(LC 6)

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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.



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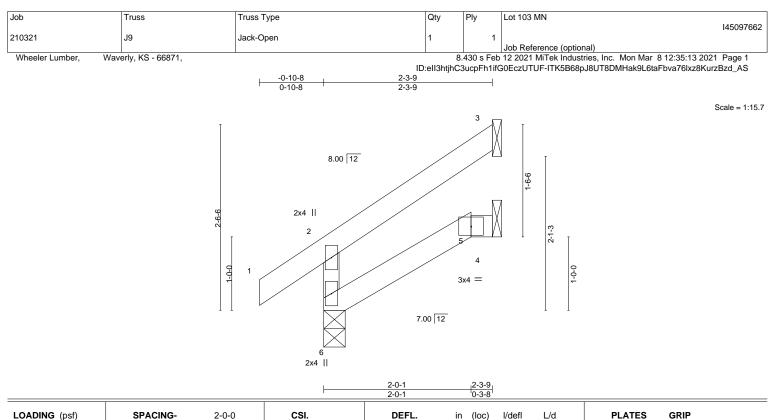
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Structural wood sheathing directly applied or 1-0-9 oc purlins,

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

except end verticals.





| 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 0.09 | Vert(LL) -0.0 | 0 5 | >999 | 360 | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.05 | Vert(CT) -0.0 | 0 5-6 | >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 | 0 5-6 | >999 | 240 | Weight: 8 lb | FT = 10% |

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-3-9 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 6=69(LC 8) Max Uplift 3=-55(LC 8), 4=-3(LC 8)

Max Grav 6=180(LC 1), 3=69(LC 15), 4=41(LC 3)

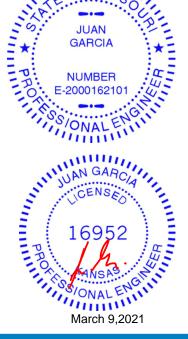
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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.

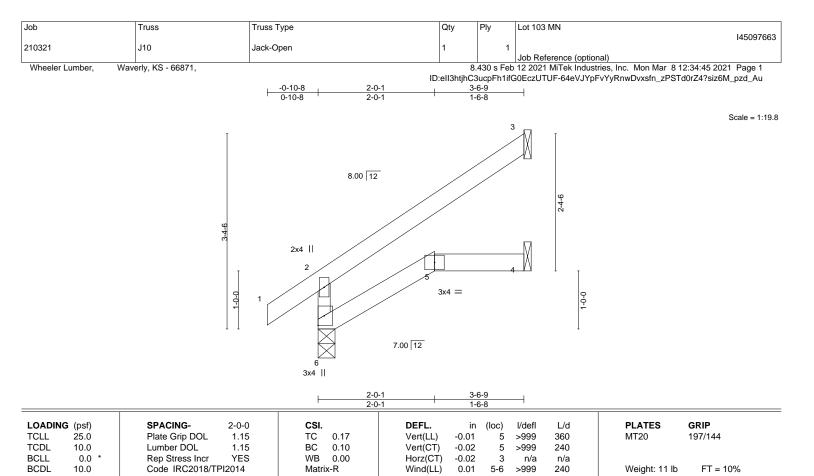
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



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16023 Swingley Ridge Rd Chesterfield, MO 63017



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TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-

BOT CHORD

Structural wood sheathing directly applied or 3-6-9 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 6=103(LC 8)

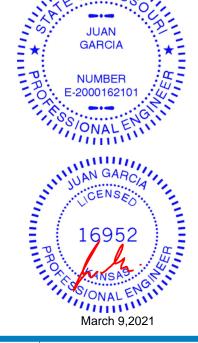
Max Horz 6=103(LC 8) Max Uplift 3=-82(LC 8)

Max Grav 6=231(LC 1), 3=115(LC 15), 4=65(LC 3)

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

NOTES-

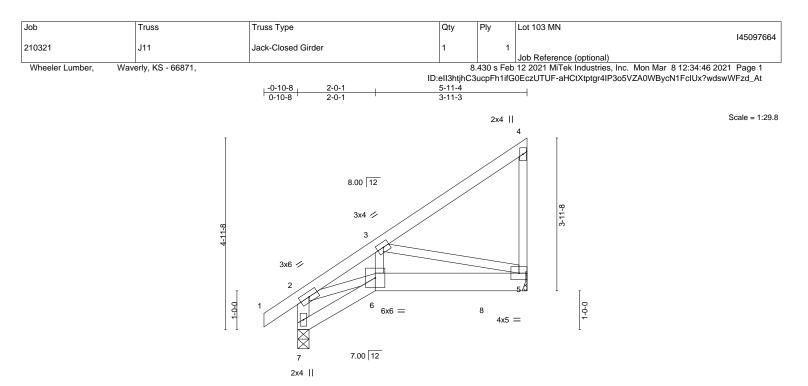
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 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.



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| | | 2-0-1 2-0-1 | 5-11-4 3-11-3 | |
|---------------|-----------------------|----------------|-----------------------------|------------------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d | PLATES GRIP |
| TCLL 25.0 | Plate Grip DOL 1.15 | TC 0.22 | Vert(LL) -0.02 5-6 >999 360 | MT20 197/144 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.57 | Vert(CT) -0.04 5-6 >999 240 | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.21 | Horz(CT) 0.01 5 n/a n/a | |
| BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-P | Wind(LL) 0.02 5-6 >999 240 | Weight: 28 lb FT = 10% |

BRACING-

TOP CHORD

BOT CHORD

- LUMBER-
- TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2 *Except*

 5-6: 2x6 SPF No.2
- 5-6: 2x6 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-7: 2x4 SPF No.2
- REACTIONS. (size) 7=0-3-8, 5=Mechanical Max Horz 7=176(LC 5) Max Uplift 7=-72(LC 8), 5=-277(LC 8) Max Grav 7=436(LC 1), 5=751(LC 1)

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

- TOP CHORD 2-7=-417/143, 2-3=-692/226
- BOT CHORD 5-6=-243/580

WEBS 2-6=-146/556, 3-6=-130/298, 3-5=-583/285

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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 5=277.
- 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) 603 lb down and 238 lb up at 4-10-7 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, 6-7=-20, 5-6=-20 Concentrated Loads (lb) Vert: 8=-603(B)

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

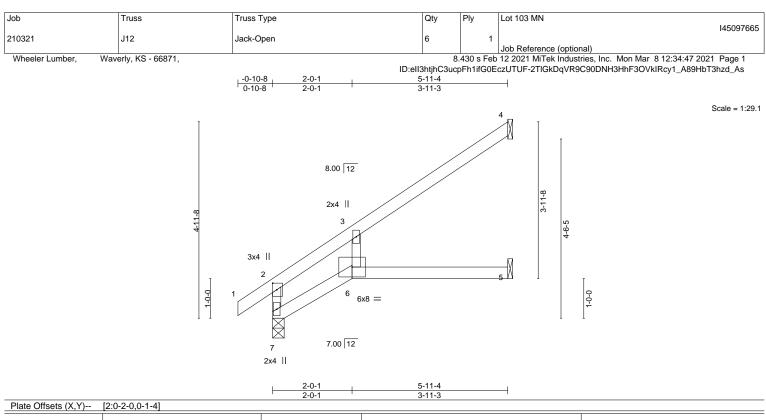


Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

except end verticals.





| 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 0.41 | Vert(LL) -0 | .08 5-6 | >857 360 | MT20 197/144 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.44 | Vert(CT) -0 | .15 5-6 | >462 240 | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.02 | Horz(CT) 0 | .08 5 | n/a n/a | |
| BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-P | Wind(LL) 0 | .09 5-6 | >739 240 | Weight: 18 lb FT = 10% |

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 7=118(LC 8) Max Uplift 4=-64(LC 8), 5=-1(LC 8)

Max Grav 7=334(LC 1), 4=170(LC 13), 5=103(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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 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.

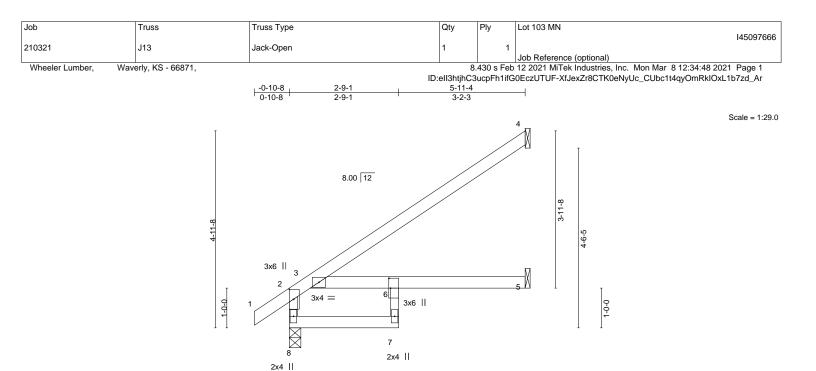
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 7) This 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.



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5-11-4

3-2-3

in (loc) l/defl

L/d

| LUMBER TOP CH | | BRACING- TOP CHORD | Structu | iral wood | sheathing | directly applied or 5-11- | 4 oc purlins, | | |
|------------------|---------------|---|---------------------|--------------------------------|-----------|---------------------------|---------------|---------------|----------|
| BCLL BCDL | 0.0 * 10.0 | Rep Stress Incr YES Code IRC2018/TPI2014 | WB 0.00 Matrix-R | Horz(CT) 0.05 Wind(LL) 0.06 | | n/a >999 | n/a 240 | Weight: 20 lb | FT = 10% |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.43 | Vert(CT) -0.14 | | >506 | 240 | | |
| TCLL | 25.0 | Plate Grip DOL 1.15 | TC 0.47 | Vert(LL) -0.06 | 5-6 | >999 | 360 | MT20 | 197/144 |

DEFL.

2-9-1 2-9-1

CSI.

LL T ۱S, BOT CHORD 2x4 SPF No.2 *Except* except end verticals. 6-7: 2x3 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x3 SPF No.2

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=119(LC 8) Max Uplift 4=-66(LC 8)

[2:0-3-0,0-1-4], [6:0-3-0,0-0-8] SPACING-

Max Grav 8=366(LC 1), 4=174(LC 13), 5=131(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-8=-343/0

NOTES-

Plate Offsets (X,Y)--

LOADING (psf)

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.

2-0-0

3Ì * 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.

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.

PLATES

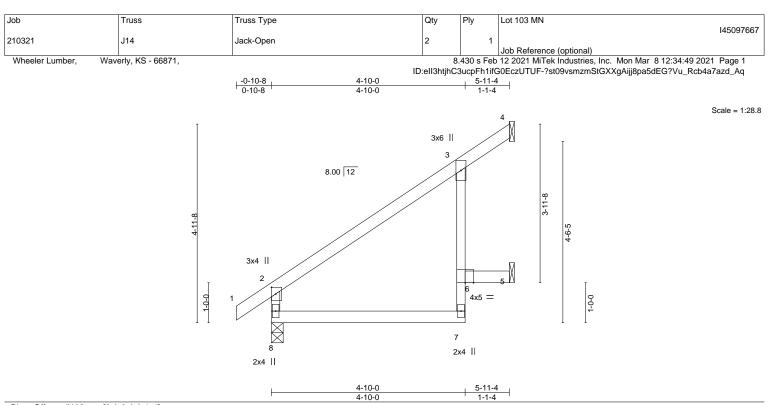
GRIP

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| OADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|----------------------|----------|----------|-------|-------|--------|-----|---------------|----------|
| CLL 25.0 | Plate Grip DOL 1.15 | TC 0.29 | Vert(LL) | -0.03 | 6 | >999 | 360 | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.53 | Vert(CT) | -0.06 | 7-8 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) | -0.03 | 4 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-R | Wind(LL) | 0.03 | 6 | >999 | 240 | Weight: 20 lb | FT = 10% |

| LUMBER- | |
|---------|--|
|---------|--|

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

TOP CHORD Structural wood sheathing directly applied or 5-11-4 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=119(LC 8) Max Uplift 4=-10(LC 8), 5=-53(LC 8)

Max Grav 8=334(LC 1), 4=92(LC 13), 5=172(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-290/11

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) 4, 5.

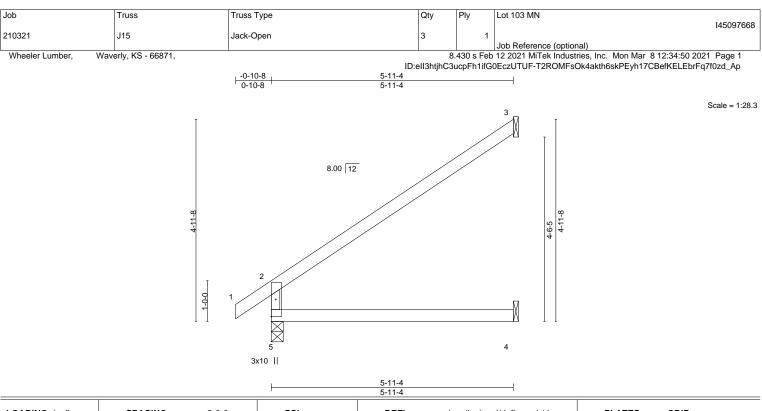
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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| 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 | 0.56 | Vert(LL) | -0.05 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.33 | Vert(CT) | -0.12 | 4-5 | >569 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.06 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TF | 912014 | Matri | x-R | Wind(LL) | 0.05 | 4-5 | >999 | 240 | Weight: 17 lb | FT = 10% |

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-11-4 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=119(LC 8) Max Uplift 3=-80(LC 8) Max Grav 5=334(LC 1), 3=191(LC 13), 4=111(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-288/25

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 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.

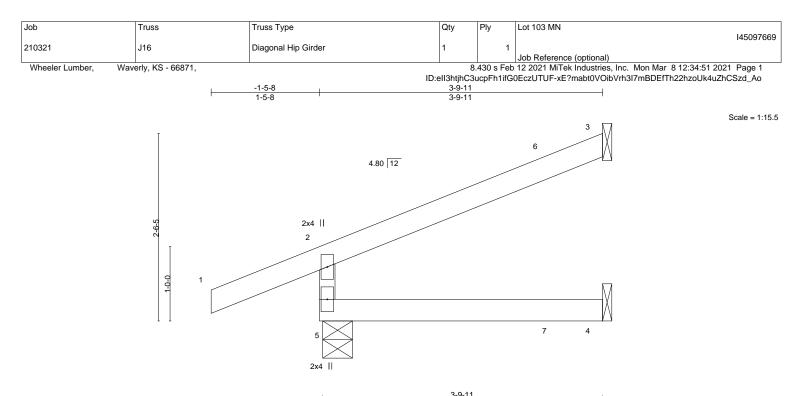
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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| | | 3-9-3 | | |
|----------------------------|--|------------------------|--|--|
| LOADING (psf) TCLL 25.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 | CSI. TC 0.19 | DEFL. in (loc) //defl L/d PLATES GRIP Vert(LL) -0.01 4-5 >999 360 MT20 197/144 | |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.13 | Vert(CT) -0.02 4-5 >999 240 | |
| BCLL 0.0 * BCDL 10.0 | Rep Stress Incr NO Code IRC2018/TPI2014 | WB 0.00 Matrix-R | Horz(CT) -0.01 3 n/a n/a Wind(LL) 0.01 4-5 >999 240 Weight: 11 lb FT = 10% | |

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

2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-9-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 5=0-4-13, 3=Mechanical, 4=Mechanical (size) Max Horz 5=71(LC 8) Max Uplift 5=-64(LC 4), 3=-73(LC 8) Max Grav 5=298(LC 1), 3=105(LC 1), 4=73(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-260/95

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.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 57 lb up at 3-2-0 on top chord, and 15 lb down at 3-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

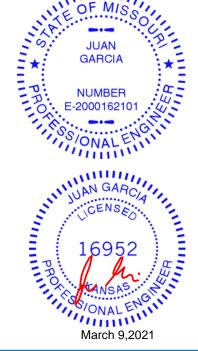
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

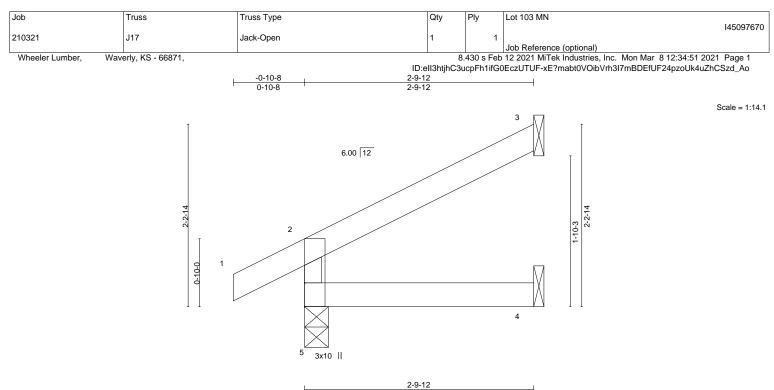
Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb)

Vert: 6=-1(F) 7=-5(F)



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| 2-9-12 | | | | | | | | | |
|---------|-------|-----------------------|----------|------------------------|--------|-----------------------|--|--|--|
| LOADING | (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/de | fl L/d | PLATES GRIP | | | |
| TCLL | 25.0 | Plate Grip DOL 1.15 | TC 0.09 | Vert(LL) -0.00 4-5 >99 | 9 360 | MT20 197/144 | | | |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.06 | Vert(CT) -0.01 4-5 >99 | 9 240 | | | | |
| 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 4-5 >99 | 9 240 | Weight: 8 lb FT = 10% | | | |

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

BOT CHORD

Structural wood sheathing directly applied or 2-9-12 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

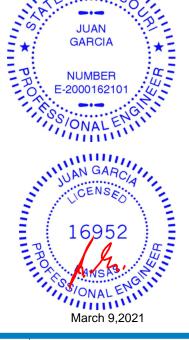
Max Horz 5=63(LC 8)

Max Uplift 5=-22(LC 8), 3=-50(LC 8) Max Grav 5=200(LC 1), 3=79(LC 1), 4=50(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.
- 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.

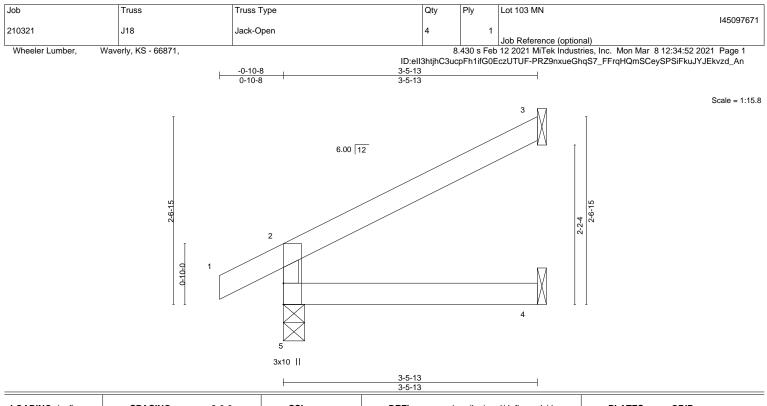


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| LOADING (psi | f) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----|------------------|-------|-------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL 25.0 | 0 | Plate Grip DOL | 1.15 | TC | 0.15 | Vert(LL) | -0.01 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL 10.0 | 0 | Lumber DOL | 1.15 | BC | 0.10 | 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 | 0 | Code IRC2018/TPI | 2014 | Matri | x-R | Wind(LL) | 0.01 | 4-5 | >999 | 240 | Weight: 10 lb | FT = 10% |

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

BOT CHORD

Structural wood sheathing directly applied or 3-5-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

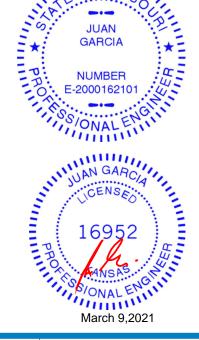
REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=77(LC 8)

Max Uplift 5=-24(LC 8), 3=-62(LC 8) Max Grav 5=228(LC 1), 3=102(LC 1), 4=63(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.
- 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.

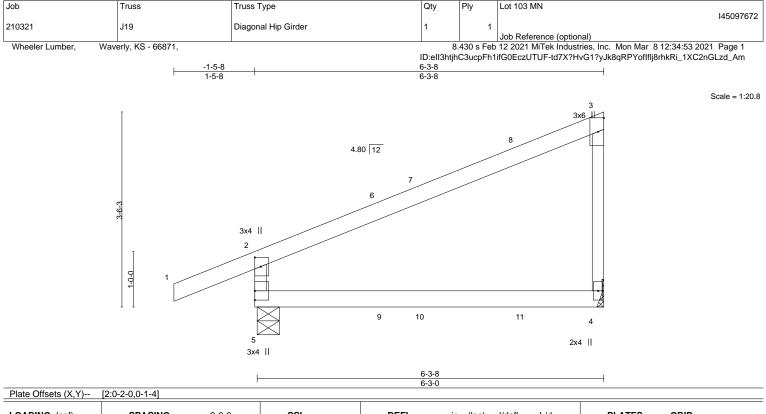


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| LOADING (psf |) SPA | ACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|--------|----------------|-------|--------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL 25.0 | Plate | e Grip DOL | 1.15 | TC | 0.57 | Vert(LL) | -0.06 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL 10.0 | Lum | nber DOL | 1.15 | BC | 0.35 | Vert(CT) | -0.12 | 4-5 | >600 | 240 | | |
| BCLL 0.0 |)* Rep | Stress Incr | NO | WB | 0.00 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCDL 10.0 | Cod | le IRC2018/TPI | 2014 | Matrix | k-R | Wind(LL) | 0.04 | 4-5 | >999 | 240 | Weight: 20 lb | FT = 10% |
| LUMBER- | | | | | | BRACING- | | | | | | |

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

(size) 5=0-4-13, 4=Mechanical Max Horz 5=149(LC 5) Max Uplift 5=-103(LC 4), 4=-107(LC 5)

Max Grav 5=398(LC 1), 4=263(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-347/135

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.

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) 5=103 4=107
- 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) 73 lb down and 32 lb up at 2-4-7, and 87 lb down and 57 lb up at 3-0-12, and 93 lb down and 72 lb up at 4-10-7 on top chord, and 9 lb down and 14 lb up at 2-4-7, and 8 lb down at 3-0-12, and 19 lb down and 16 lb up at 4-10-7 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: 9=2(F) 10=-2(B) 11=-4(F)



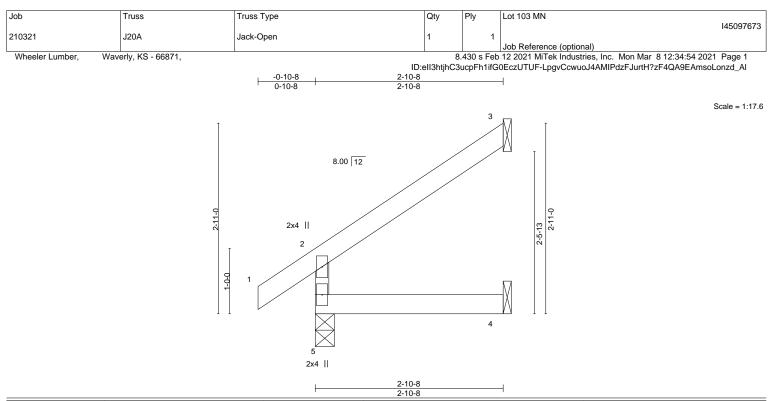
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Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





| | | | | 1 | | 2.00 | | | | | - | |
|--------|---------|-------------------|-------|-------|------|----------|-------|-------|--------|-----|---------------|----------|
| 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 | тс | 0.12 | 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/TPI2 | 2014 | Matri | x-R | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 9 lb | FT = 10% |
| | | | | | | | 2.00 | . • | | | i olgili o lo | 1. 10/0 |

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

BOT CHORD

Structural wood sheathing directly applied or 2-10-8 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=86(LC 8)

Max Uplift 5=-2(LC 8), 3=-66(LC 8) Max Grav 5=203(LC 1), 3=90(LC 15), 4=52(LC 3)

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

NOTES-

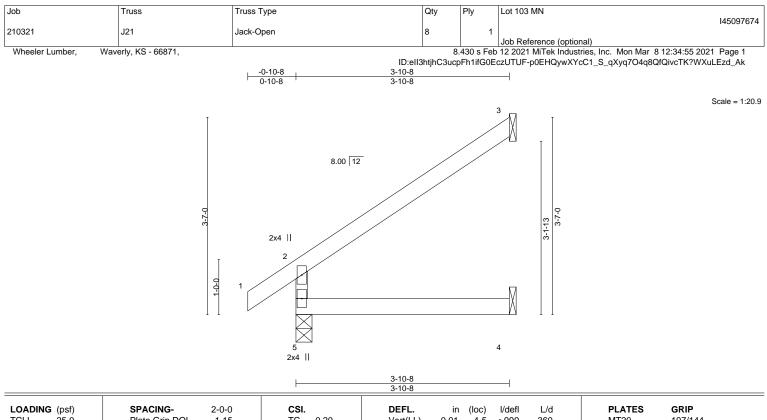
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 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) | -0.01 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.13 | 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/TPI2014 | Matrix-R | Wind(LL) | 0.01 | 4-5 | >999 | 240 | Weight: 12 lb | FT = 10% |

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-10-8 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=80(LC 8)

Max Horz 5=80(LC 8) Max Uplift 3=-54(LC 8)

Max Grav 5=244(LC 1), 3=122(LC 13), 4=71(LC 3)

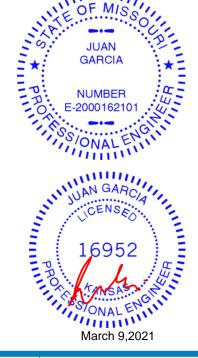
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 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.

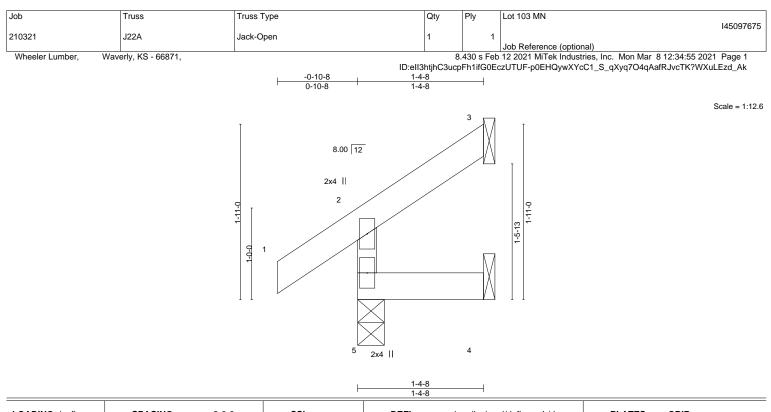
4) Refer to girder(s) for truss to truss connections.

- 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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| 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 | 0.07 | Vert(LL) | -0.00 | 5 | >999 | 240 | 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/T | PI2014 | Matri | x-R | | | | | | Weight: 5 lb | FT = 10% |

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-4-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

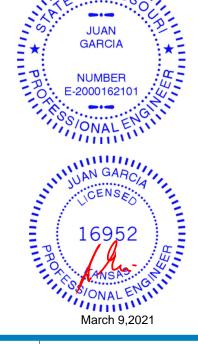
REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=47(LC 5) Max Uplift 5=-5(LC 8), 3=-31(LC 8), 4=-7(LC 8)

Max Grav 5=152(LC 1), 3=29(LC 15), 4=23(LC 3)

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

NOTES-

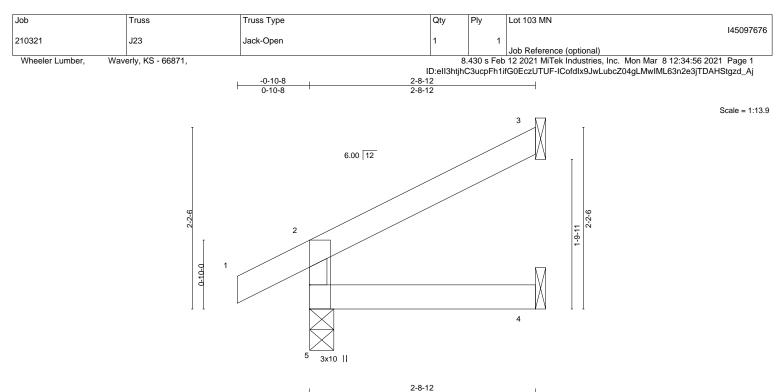
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 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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| | | | 2-8-12 | | | |
|---------------|----------------------|-------------|----------------|-------|------------|-----------------------|
| 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 0.08 | Vert(LL) -0.00 | 4-5 | >999 360 | MT20 197/144 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.06 | Vert(CT) -0.00 | 4-5 | >999 240 | WIZO 137/144 |
| 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 | 4-5 | >999 240 | Weight: 8 lb FT = 10% |

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-8-12 oc purlins, except end verticals.

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

REACTIONS.

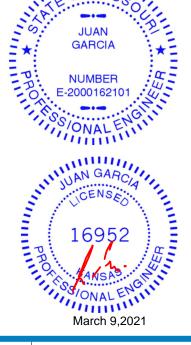
5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=61(LC 8)

Max Uplift 5=-22(LC 8), 3=-48(LC 8) Max Grav 5=197(LC 1), 3=76(LC 1), 4=49(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) 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.

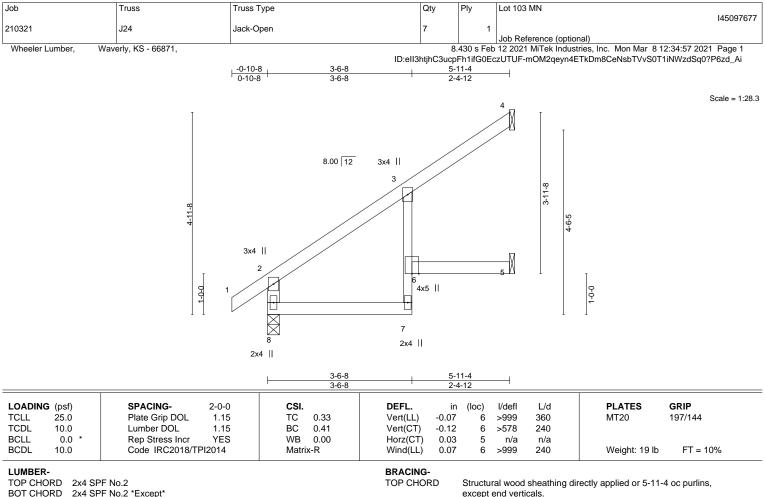


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BOT CHORD

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

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2 *Except*

 3-7: 2x3 SPF No.2

 WEBS
 2x4 SPF No.2

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

Max Horz 8=118(LC 8) Max Uplift 4=-49(LC 8), 5=-14(LC 8)

Max Grav 8=336(LC 1), 4=156(LC 13), 5=106(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-304/7

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); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 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.

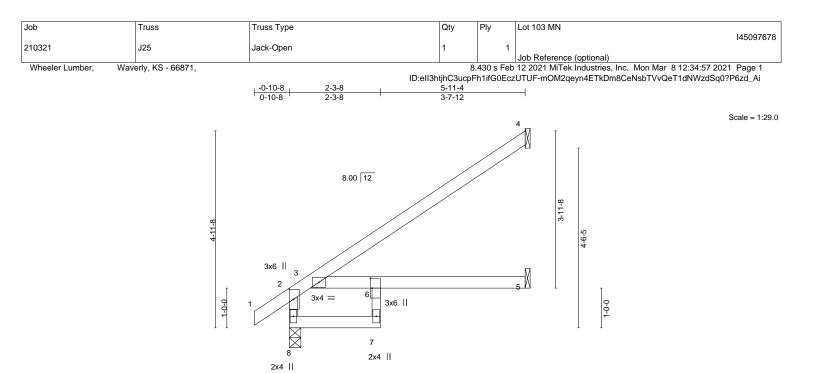
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

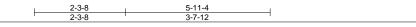


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| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|-----------------------|----------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL 25.0 | Plate Grip DOL 1.15 | TC 0.48 | Vert(LL) | -0.06 | 5-6 | >999 | 360 | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.42 | Vert(CT) | -0.13 | 5-6 | >519 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) | 0.06 | 5 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-R | Wind(LL) | 0.07 | 5-6 | >999 | 240 | Weight: 19 lb | FT = 10% |

| TOP CHORD | 2x4 SPF No.2 |
|-----------|-----------------------|
| BOT CHORD | 2x4 SPF No.2 *Except* |
| | 6-7: 2x3 SPF No.2 |
| WEBS | 2x3 SPF No.2 |

Plate Offsets (X Y)-- [2:0-3-0 0-1-4] [6:0-3-0 0-0-8]

TOP CHORD Structural wood sheathing directly applied or 5-11-4 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=119(LC 8) Max Uplift 4=-67(LC 8)

Max Grav 8=360(LC 1), 4=176(LC 13), 5=122(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-342/0

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.
- * 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 3Ì 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.

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.

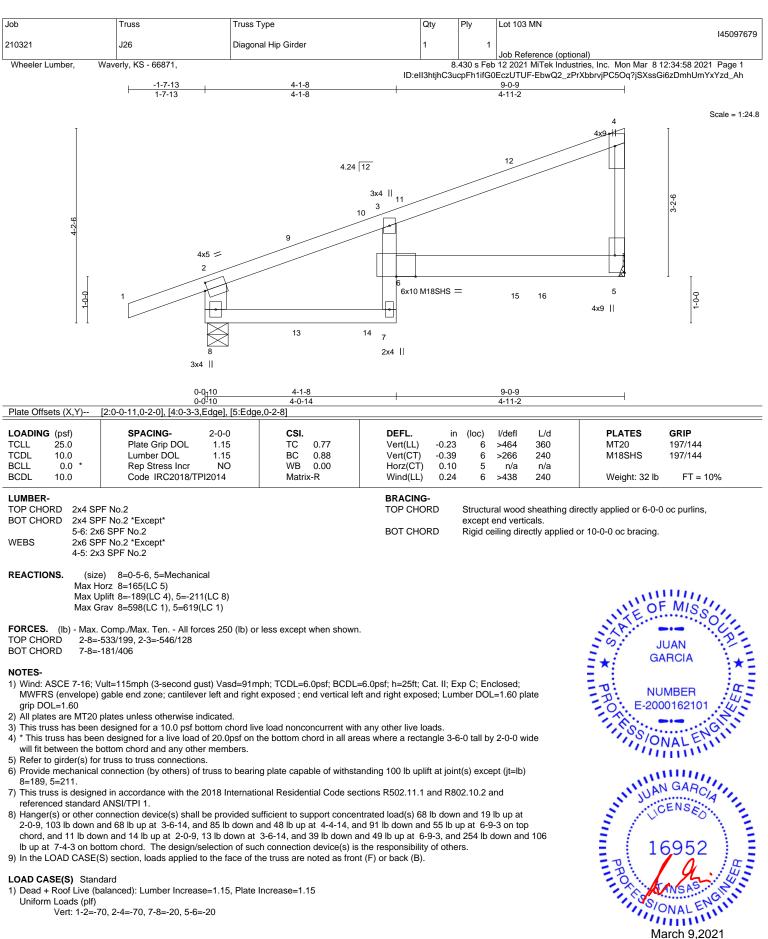


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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 7-8=-20, 5-6=-20

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 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

March 9.2021

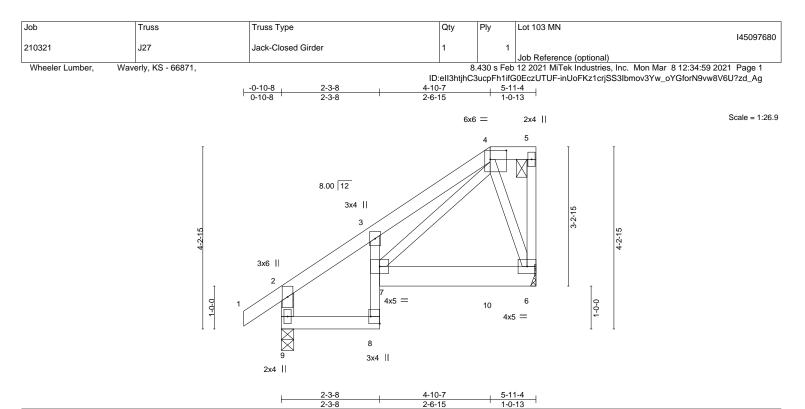
| [| Job | Truss | Truss Type | Qty | Ply | Lot 103 MN |
|---|----------------------|-------------------|---------------------|-----|-----------|---|
| | | | | | | 145097679 |
| | 210321 | J26 | Diagonal Hip Girder | 1 | 1 | |
| | | | | | | Job Reference (optional) |
| | Wheeler Lumber, Wave | erly, KS - 66871, | | 8. | 430 s Feb | 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:58 2021 Page 2 |

ID:ell3htjhC3ucpFh1ifG0EczUTUF-EbwQ2_zPrXbbrvjPC5Oq?jSXssGi6zDmhUmYxYzd_Ah

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 11=-4(B) 12=-9(B) 13=2(B) 14=-6(F) 15=-31(B) 16=-254(F)





| 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 0.32 | Vert(LL) -0.03 | 6-7 | >999 | 360 | MT20 197/144 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.69 | Vert(CT) -0.06 | 6-7 | >999 | 240 | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.15 | Horz(CT) 0.05 | 6 | n/a | n/a | |
| 3CDL 10.0 | Code IRC2018/TPI2014 | Matrix-S | Wind(LL) 0.04 | 6-7 | >999 | 240 | Weight: 28 lb FT = 10% |

TOP CHORD

BOT CHORD

| LUMBER- | | |
|---------|-----|----|
| | 21/ | 50 |

- TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2 *Except*

 3-8: 2x3 SPF No.2, 6-7: 2x6 SPF No.2

 WEBS
 2x3 SPF No.2 *Except*
 - 2x3 SPF No.2 *Exce 2-9: 2x4 SPF No.2
- 2-3. 274 511 10.2

REACTIONS. (size) 9=0-3-8, 6=Mechanical Max Horz 9=150(LC 5) Max Uplift 9=-80(LC 8), 6=-252(LC 5) Max Grav 9=435(LC 1), 6=746(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-9=-415/109, 2-3=-361/76, 3-4=-494/209

WEBS 4-7=-206/436, 4-6=-262/102

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 orip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

- 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) 9 except (jt=lb) 6=252.
- 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.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 597 lb down and 232 lb up at 4-10-7 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).
- TO) In the LOAD CASE(3) section, loads applied to the face of the truss are noted as from (F) of back (b).

LOAD CASE(S) Standard

 Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 4-5=-70, 8-9=-20, 6-7=-20 Concentrated Loads (lb)

Vert: 10=-597(F)

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

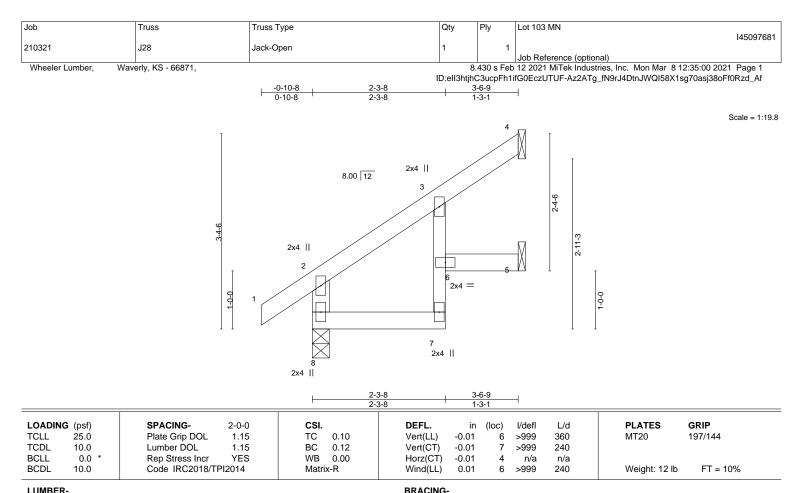


Structural wood sheathing directly applied or 5-11-4 oc purlins,

except end verticals, and 2-0-0 oc purlins: 4-5.

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





TOP CHORD

BOT CHORD

| LUMBER- |
|---------|
|---------|

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

WEBS 2x4 SPF No.2

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

Max Horz 8=104(LC 8) Max Uplift 8=-2(LC 8), 4=-48(LC 8), 5=-30(LC 8)

Max Grav 8=233(LC 1), 4=90(LC 15), 5=64(LC 15)

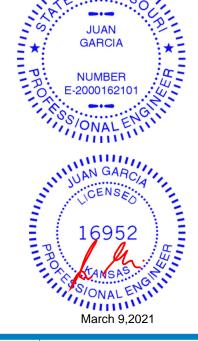
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) 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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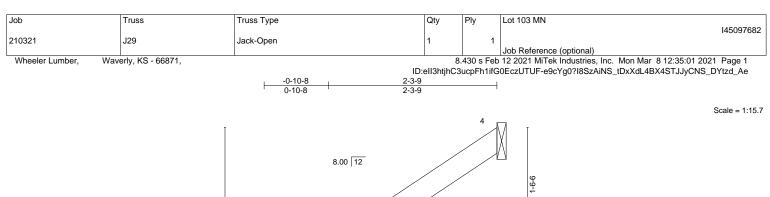
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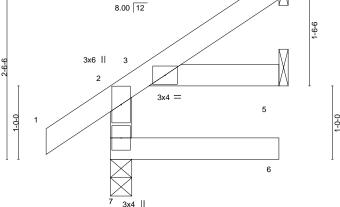
Structural wood sheathing directly applied or 3-6-9 oc purlins,

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

except end verticals.







| | | | 2-3-9 | | 1 | | | |
|---|---|------------------------|--------------------------------|-----|--------------|------------|----------------|------------------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. TC 0.16 | DEFL. ir Vert(LL) -0.05 | () | l/defl | L/d | PLATES MT20 | GRIP 197/144 |
| TCLL 25.0 TCDL 10.0 | Plate Grip DOL 1.15 Lumber DOL 1.15 | BC 0.17 | Vert(CT) -0.09 | 6 | >552 >278 | 360 240 | IMIT20 | 197/144 |
| BCLL 0.0 * BCDL 10.0 | Rep Stress Incr YES Code IRC2018/TPI2014 | WB 0.00 Matrix-R | Horz(CT) 0.02 Wind(LL) 0.03 | | n/a >933 | n/a 240 | Weight: 10 lb | FT = 10% |

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

BRACING-TOP CHORD

BOT CHORD

2 2 0

Structural wood sheathing directly applied or 2-3-9 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 7=70(LC 8) Max Uplift 4=-39(LC 8), 5=-3(LC 8) Max Grav 7=197(LC 1), 4=71(LC 15), 5=60(LC 3)

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

NOTES-

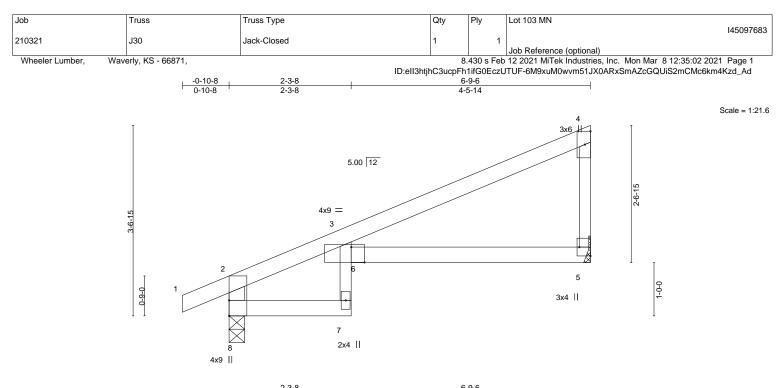
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 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) 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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| | | | | 2-3-8 | | | 4-5- | - | | | _ | |
|------------|-----------|----------------------------|--------|-------|------|----------|-------|--------------|--------|-----|---------------|----------|
| Plate Offs | ets (X,Y) | [3:0-3-0,0-3-7], [5:Edge,0 | -2-8] | | | | | | | | | |
| | (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL | 25.0 | Plate Grip DOL | 1.15 | тс | 0.54 | Vert(LL) | -0.11 | ` 5-6 | >686 | 360 | MT20 | 197/144 |
| FCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.57 | Vert(CT) | -0.21 | 5-6 | >380 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.10 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TF | PI2014 | Matri | ĸ-R | Wind(LL) | 0.12 | 5-6 | >670 | 240 | Weight: 20 lb | FT = 10% |

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except* 3-7: 2x3 SPF No.2 *Except* WEBS 2x4 SPF No.2 *Except* 4-5: 2x3 SPF No.2 BRACING-TOP CHORD Structural except en BOT CHORD Rigid ceilin

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

- REACTIONS. (size) 8=0-3-8, 5=Mechanical Max Horz 8=131(LC 5)
 - Max Uplift 8=-62(LC 8), 5=-71(LC 8) Max Grav 8=371(LC 1), 5=288(LC 1)

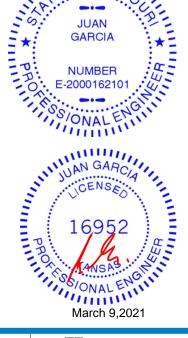
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-359/86, 2-3=-284/36

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.

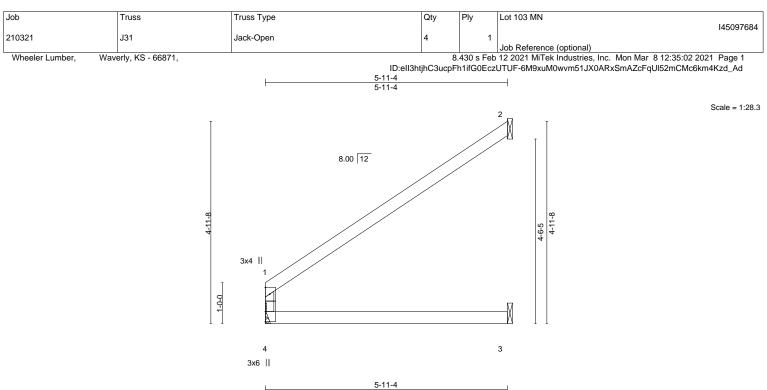
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 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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| | | | | | | 5-11-4 | | | | | | |
|---------|---------|-----------------|--------|--------|------|----------|-------|-------|--------|-----|---------------|----------|
| LOADING | i (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL | 25.0 | Plate Grip DOL | 1.15 | тс | 0.58 | Vert(LL) | -0.05 | 3-4 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.33 | Vert(CT) | -0.12 | 3-4 | >562 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.07 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TF | PI2014 | Matrix | k-R | Wind(LL) | 0.05 | 3-4 | >999 | 240 | Weight: 16 lb | FT = 10% |

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 4=Mechanical, 2=Mechanical, 3=Mechanical (size) Max Horz 4=104(LC 8)

Max Uplift 2=-80(LC 8)

Max Grav 4=260(LC 1), 2=194(LC 13), 3=112(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); 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) 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) 2.
- 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.

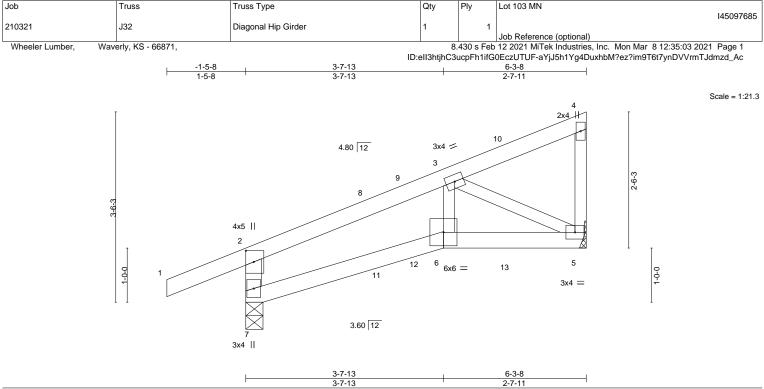


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| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES GRIP |
|---------------|-----------------------|----------|---------------|----------|--------|-----|------------------------|
| TCLL 25.0 | Plate Grip DOL 1.15 | TC 0.41 | Vert(LL) -0.0 | 2 6 | >999 | 360 | MT20 197/144 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.23 | Vert(CT) -0.0 | 4 6 | >999 | 240 | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.06 | Horz(CT) 0.0 | 2 5 | n/a | n/a | |
| BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-S | Wind(LL) 0.0 | 26 | >999 | 240 | Weight: 22 lb FT = 10% |

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2 *Except* 2-7: 2x4 SPF No.2

REACTIONS. (size) 7=0-3-13, 5=Mechanical Max Horz 7=134(LC 22) Max Uplift 7=-104(LC 4), 5=-110(LC 5) Max Grav 7=400(LC 1), 5=260(LC 1)

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

2-7=-406/137, 2-3=-368/109 TOP CHORD

BOT CHORD 6-7=-165/276. 5-6=-155/256

WEBS 3-5=-264/149

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 airder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=104, 5=110
- 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) 73 lb down and 33 lb up at 2-4-7, and 87 lb down and 58 lb up at 3-0-12, and 94 lb down and 73 lb up at 4-10-7 on top chord, and 11 lb down and 15 lb up at 2-4-7, and 8 lb down at 3-0-12, and 20 lb down and 17 lb up at 4-10-7 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, 6-7=-20, 5-6=-20

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 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

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

except end verticals.



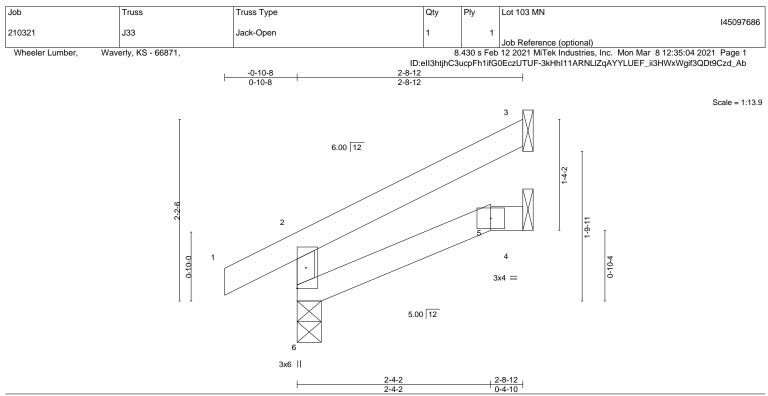
| Job | Truss | Truss Type | Qty | Ply | Lot 103 MN |
|----------------------|-------------------|---------------------|-----|-----------|---|
| | | | | | 145097685 |
| 210321 | J32 | Diagonal Hip Girder | 1 | 1 | |
| | | | | | Job Reference (optional) |
| Wheeler Lumber, Wave | erly, KS - 66871, | | 8. | 430 s Feb | 12 2021 MiTek Industries, Inc. Mon Mar 8 12:35:03 2021 Page 2 |

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LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 11=1(B) 12=-2(F) 13=-3(B)





| | | | 2-4-2 | | 0-4-10 | |
|---------------|----------------------|----------|----------|-----------|------------|-----------------------|
| 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 0.08 | Vert(LL) | -0.00 5-6 | >999 360 | MT20 197/144 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.05 | Vert(CT) | -0.00 5-6 | >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) | 0.00 5-6 | >999 240 | Weight: 9 lb FT = 10% |

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-8-12 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bra

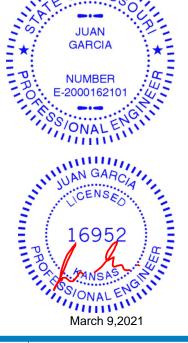
REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 6=60(LC 8)

Max Uplift 6=-21(LC 8), 3=-50(LC 8) Max Grav 6=197(LC 1), 3=76(LC 1), 4=49(LC 3)

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

NOTES-

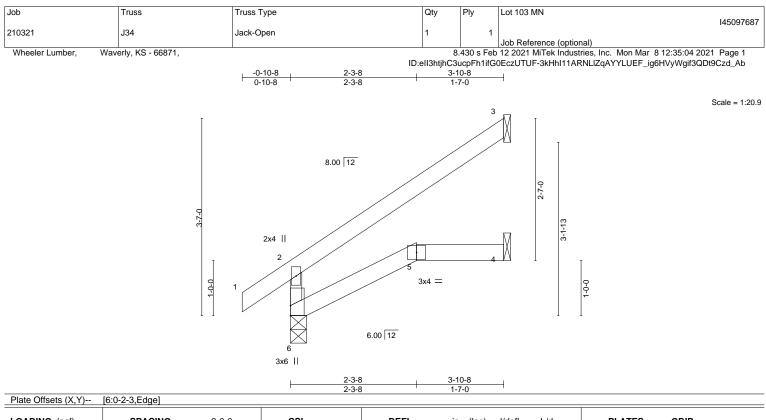
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3.
- 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.



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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 | 0.21 | Vert(LL) | -0.01 | 5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | -0.02 | 5 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.03 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TF | PI2014 | Matri | x-R | Wind(LL) | 0.02 | 5-6 | >999 | 240 | Weight: 12 lb | FT = 10% |
| | | | | | | | | | | | | |

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical

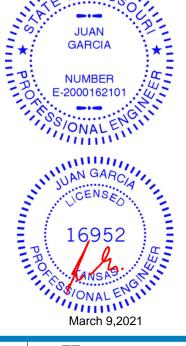
Max Horz 6=112(LC 8)

Max Uplift 3=-89(LC 8) Max Grav 6=244(LC 1), 3=127(LC 15), 4=71(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.
- 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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 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.

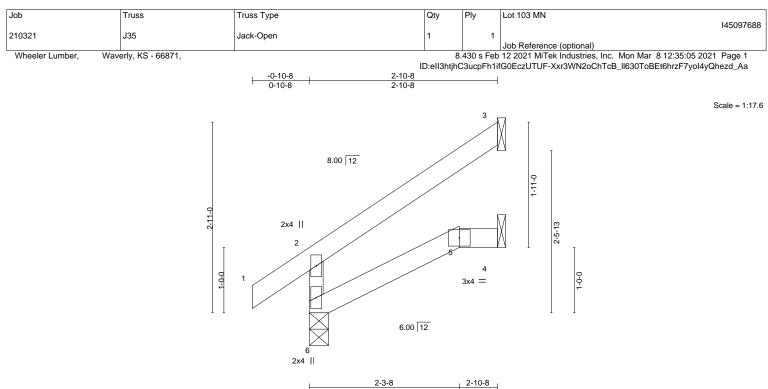


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| | | Γ | 2-3-8 | 0-7-0 | | |
|---------------|----------------------|-------------|----------|-----------|------------|------------------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. | in (loc) | l/defl L/d | PLATES GRIP |
| TCLL 25.0 | Plate Grip DOL 1.15 | TC 0.13 | Vert(LL) | -0.00 5-6 | >999 360 | MT20 197/144 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.07 | Vert(CT) | -0.01 5-6 | >999 240 | 1977144 |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) | -0.01 3 | n/a n/a | Weight: 10 lb FT = 10% |
| BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-R | Wind(LL) | 0.01 5-6 | >999 240 | |

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

Structural wood sheathing directly applied or 2-10-8 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

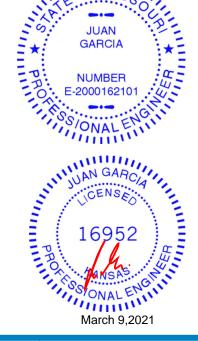
REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 6=85(LC 8) Max Uplift 3=-67(LC 8), 4=-1(LC 8)

Max Grav 6=203(LC 1), 3=91(LC 15), 4=52(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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



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| Job | Truss | Truss Type | Qty | Ply | Lot 103 MN | 145097689 |
|-------------------------|-------------------------------|--|--------------------------------|-------------|--|---|
| 210321 | J36 | Jack-Open | 1 | 1 | | |
| Wheeler Lumber, | Naverly, KS - 66871, | | | 8.430 s Fel | Job Reference (options o 12 2021 MiTek Industri | al) ies, Inc. Mon Mar 8 12:35:05 2021 Page 1 |
| ····, | , , | 0.40.0 | ID:ell3htjl | | | oChTcB_ll630ToBEt2hscF7yol4yQhezd_Aa |
| | | -0-10-8 0-10-8 | 1-4-8 1-4-8 | | | |
| | | | | | | Scale = 1:12.6 |
| | | _ | | 3 | | |
| | | | | | | |
| | | 8.00 | 12 | | | |
| | | | | | | |
| | | 2x4 | | | 1-4-8 | |
| | | 2 | | | , | |
| | | 111-0 | | Л | | |
| | | | | | | |
| | | 1 10-0 | | | | |
| | | 7 | | / _ | م م | |
| | | | | | 0-5-12 0-6-8 | |
| | | | | | | |
| | | | | 12 | | |
| | | | 6.00 | 12 | | |
| | | ŧ | | | | |
| | | 2x4 | II | | | |
| | | | 1 | | | |
| | | | 1 | | | |
| 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 0.07 | Vert(LL) -0.0 | | >999 240 | MT20 197/144 |
| TCDL 10.0 BCLL 0.0 * | Lumber DOL Rep Stress Incr | 1.15 BC 0.03 YES WB 0.00 | Vert(CT) -0.0 Horz(CT) -0.0 | | >999 180 n/a n/a | |
| BCDL 10.0 | Code IRC2018/TPI | | | | | Weight: 6 lb FT = 10% |
| LUMBER- | | | BRACING- | | | |
| TOP CHORD 2x4 SP | | | TOP CHORD | | | ectly applied or 1-4-8 oc purlins, |
| BOT CHORD 2x4 SP | | | | | end verticals. | |

BOT CHORD

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

WEBS

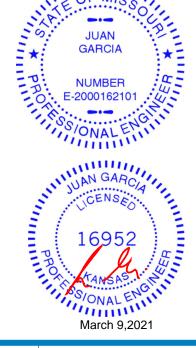
2x3 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=49(LC 5) Max Uplift 5=-3(LC 8), 3=-33(LC 8), 4=-8(LC 8) Max Grav 5=152(LC 1), 3=30(LC 15), 4=23(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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.

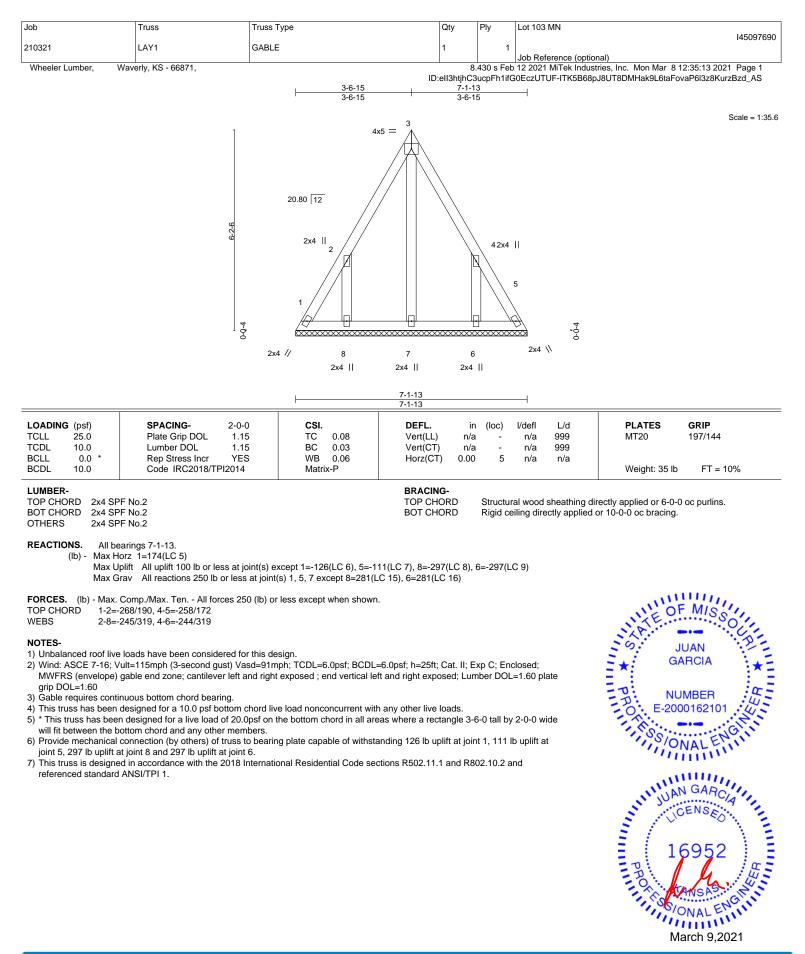


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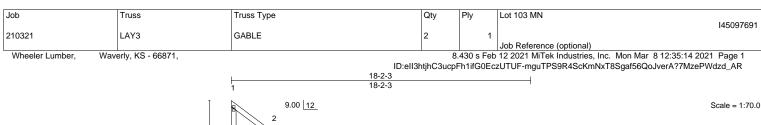
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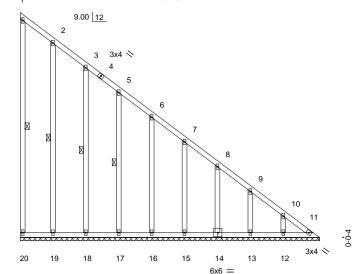
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| OADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------------------|----------|---------------|-------|--------|-----|----------------|----------|
| CLL 25.0 | Plate Grip DOL 1.15 | TC 0.07 | Vert(LL) n/a | - | n/a | 999 | MT20 | 197/144 |
| CDL 10.0 | Lumber DOL 1.15 | BC 0.09 | Vert(CT) n/a | - | n/a | 999 | | |
| SCLL 0.0 * | Rep Stress Incr YES | WB 0.14 | Horz(CT) 0.02 | 11 | n/a | n/a | | |
| SCDL 10.0 | Code IRC2018/TPI2014 | Matrix-S | | | | | Weight: 119 lb | FT = 10% |

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

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 1-20, 2-19, 3-18, 5-17

REACTIONS. All bearings 18-2-3. (lb) -

- Max Horz 20=-539(LC 9) Max Uplift All uplift 100 lb or less at joint(s) 20, 19, 18, 17, 16, 15, 14, 13, 12 except 11=-103(LC 7) Max Grav All reactions 250 lb or less at joint(s) 20, 19, 18, 17, 16, 15, 14, 13, 12 except 11=378(LC 9)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- 5-6=-269/106, 6-7=-345/134, 7-8=-422/161, 8-9=-499/189, 9-10=-576/217, TOP CHORD 10-11=-651/246
- BOT CHORD 19-20=-194/539, 18-19=-194/539, 17-18=-194/539, 16-17=-194/539, 15-16=-194/539, 14-15=-194/539, 13-14=-194/540, 12-13=-194/540, 11-12=-194/540

13-7-14

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 right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 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) 20, 19, 18, 17, 16, 15, 14, 13, 12 except (jt=lb) 11=103.
- 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.



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| Trus | SS | Truss Type | Qty | Ply | Lot 103 MN | | |
|---|--|---|--|----------------------------------|---|----------------|------------------------|
| 321 LAY | /4 | GABLE | 1 | 1 | | | 14509769 |
| | KS - 66871, | | | | Job Reference (optiona b 12 2021 MiTek Industrie | | |
| | | 10.82 12 | | | DEczUTUF-EsSrcoA4rmk | | |
| | | 3x6 // 2x4 1 1 1 1 1 1 1 1 2 2x4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | |
| | | 8 7 | 6 5 | | | | |
| | | 2x4 | 6x6 = 2x4 | | | | |
| LL 25.0 P DL 10.0 L LL 0.0 * R | PACING- 2-0- Plate Grip DOL 1.1 umber DOL 1.1 Rep Stress Incr YES | 5 TC 0.13 5 BC 0.03 6 WB 0.72 | Vert(LL) n | in (loc) /a - /a - 00 5 | l/defl L/d n/a 999 n/a 999 n/a n/a | PLATES MT20 | GRIP 197/144 |
| DL 10.0 C | Code IRC2018/TPI2014 | Matrix-P | | | | Weight: 70 lb | FT = 10% |
| MBER- DP CHORD 2x4 SPF No.2 DT CHORD 2x4 SPF No.2 EBS 2x4 SPF No.2 2ES 2x4 SPF No.2 2-6: 2x3 SPF No.2 2-6: 2x3 SPF No.2 | | | BRACING- TOP CHORD BOT CHORD WEBS | except Rigid c | ral wood sheathing dire end verticals. eiling directly applied or at midpt 1-8 | | oc purlins, |

REACTIONS. All bearings 4-9-9.

Max Horz 8=166(LC 8) (lb) -

2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 8, 5 except 7=-150(LC 6), 6=-821(LC 8) Max Grav All reactions 250 lb or less at joint(s) 8, 5 except 7=633(LC 8), 6=408(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-7=-613/183, 2-6=-289/808

NOTES-

OTHERS

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 ; Lumber DOL=1.60 plate grip DOL=1.60

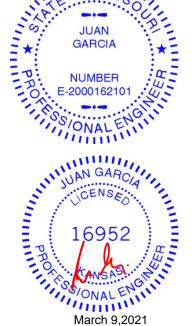
2) Gable requires continuous bottom chord bearing.

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5 except (jt=lb) 7=150 6=821

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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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



March 9,2021

| lob | Truss | Truss Type | Q | ty | Ply | Lot 103 | MN | | |
|-------------------------|-----------------------------|----------------------------|-------------------------------------|--------------|----------|------------|------------------|---------------------------------------|---------------------|
| 10321 | LAY5 | GABLE | 1 | | 1 | | | | 14509769 |
| 10321 | LATS | GABLE | 1 | | | | erence (optional |) | |
| Wheeler Lumber, | Waverly, KS - 66871, | | | | | b 12 2021 | MiTek Industries | s, Inc. Mon Mar 81 | 2:35:16 2021 Page 1 |
| | | | اD:ell) 0 ₁ 7-5 4-9-9 | 3htjhC3u | cpFh1ifG | 60EczUTL | JF-i20Dq8Bic3s2 | ?g5sFti2kWBnM7cA | JydQqH7VaWzd_AP |
| | | | 0-7-5 4-9-9 0-7-5 4-2-3 | | | | | | |
| | | 10 | 82 12 2x4 4 | | | | | | Scale = 1:7 |
| | | | 2x4 🛛 🗗 | | | | | | |
| | | | 12 = 3 | | | | | | |
| | | | 2x4 8 | | | | | | |
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| | | | | | | | | | |
| | | 13-7-14 | | | | | | | |
| | | 13-1 | | | | | | | |
| | | 9-10-9 | | 9-10-9 | | | | | |
| | | <u></u> | | с. Г | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | | | 8 7 6 5 | | | | | | |
| | | | 2x4 4.6x6 = 2x4 | Ш | | | | | |
| | 1 | 1 | 4-9-9 | | | | | | |
| LOADING (psf) | SPACING- 2 | 0-0 CSI. | 2x4 DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 25.0 | | .15 TC 0.06 | Vert(LL) | n/a | | n/a | 999 | MT20 | 197/144 |
| TCDL 10.0 BCLL 0.0 * | | .15 BC 0.03 YES WB 0.64 | Vert(CT) Horz(CT) | n/a -0.00 | - 5 | n/a n/a | 999 n/a | | |
| BCDL 10.0 | Code IRC2018/TPI20 | | | | - | | | Weight: 70 lb | FT = 10% |
| LUMBER- | | | BRACING | | | | 1 | | |
| TOP CHORD 2x4 SF | | | TOP CHO | RD | | | | tly applied or 4-9-9 | oc purlins, |
| | PF No.2 PF No.2 *Except* | | BOT CHO | חא | | | cals, and 2-0-0 | oc purlins: 1-2. 6-0-0 oc bracing. | |
| 2-6: 2x | 3 SPF No.2 | | WEBS | | | at midpt | | 4-5, 2-7, 3-6 | |
| OTHERS 2x4 SF | PF No.2 | | | | | | | | |
| REACTIONS. All be | earings 4-9-9. | | | | | | | | |
| | lorz 8=146(LC 8) | | | | | | | | |

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-7=-772/264, 2-6=-259/719

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 ; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

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.

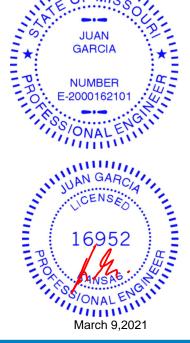
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

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) 8, 5 except (jt=lb) 7=232. 6=814.

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.

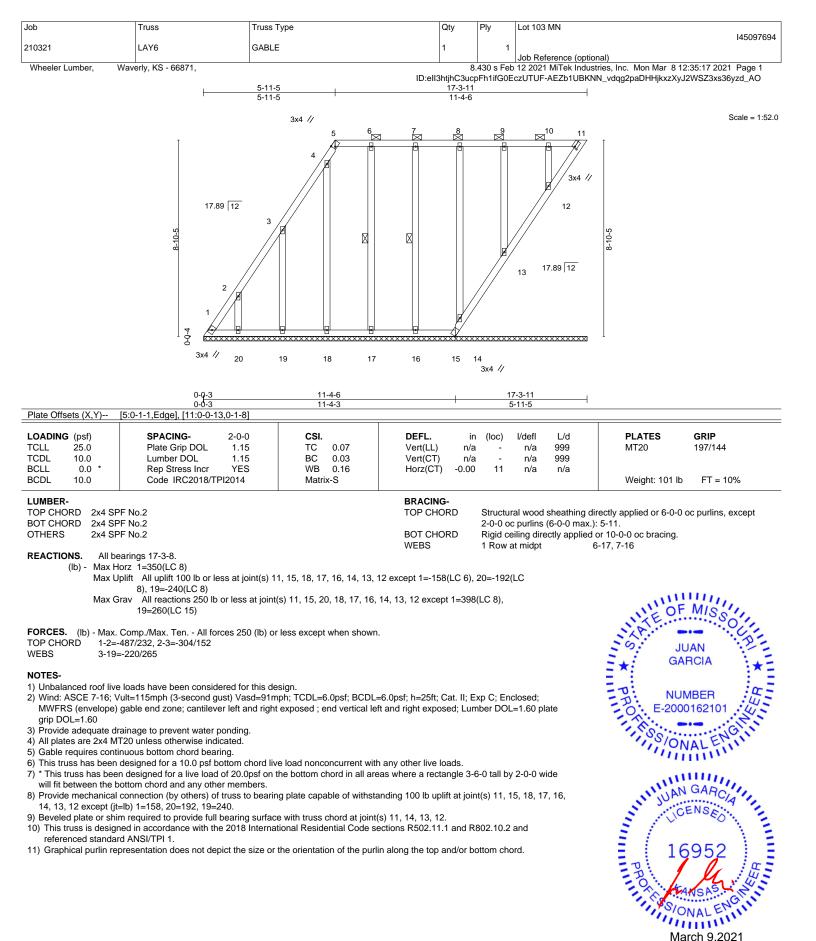
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



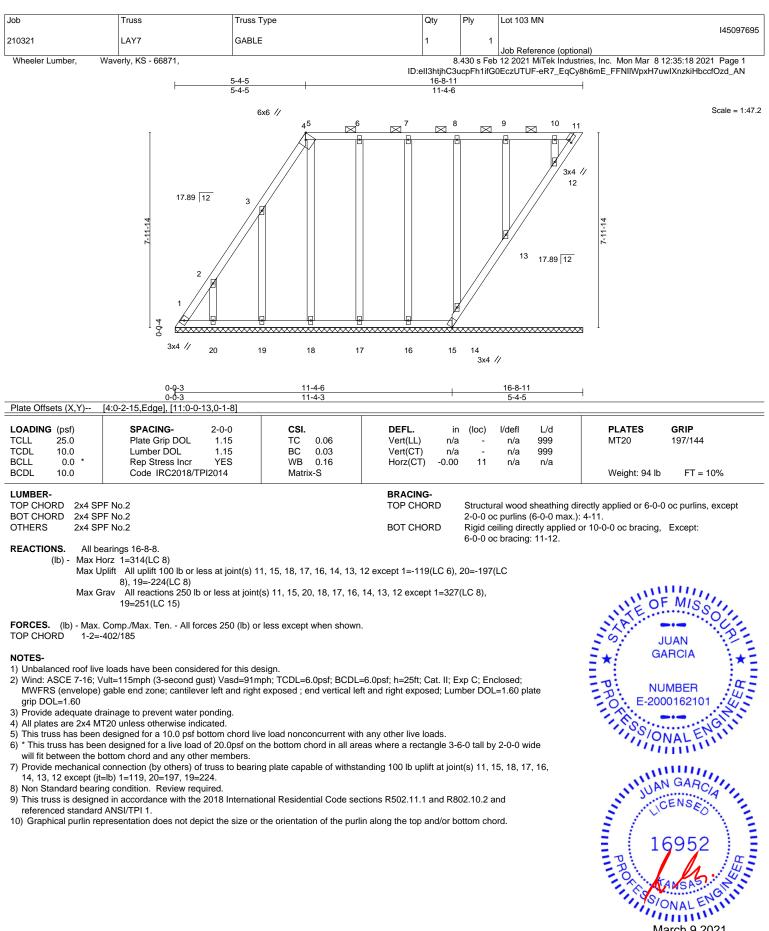
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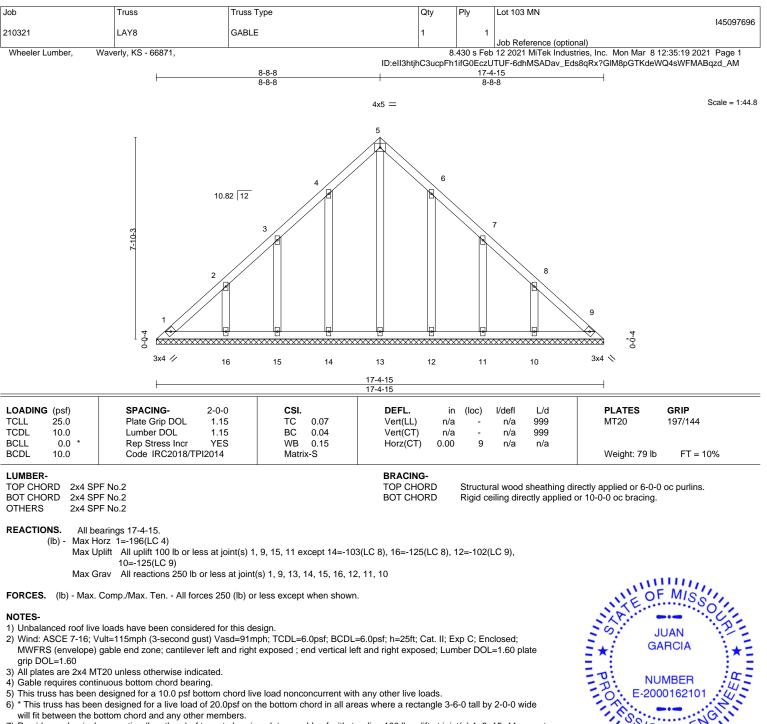


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 NiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

mini March 9.2021

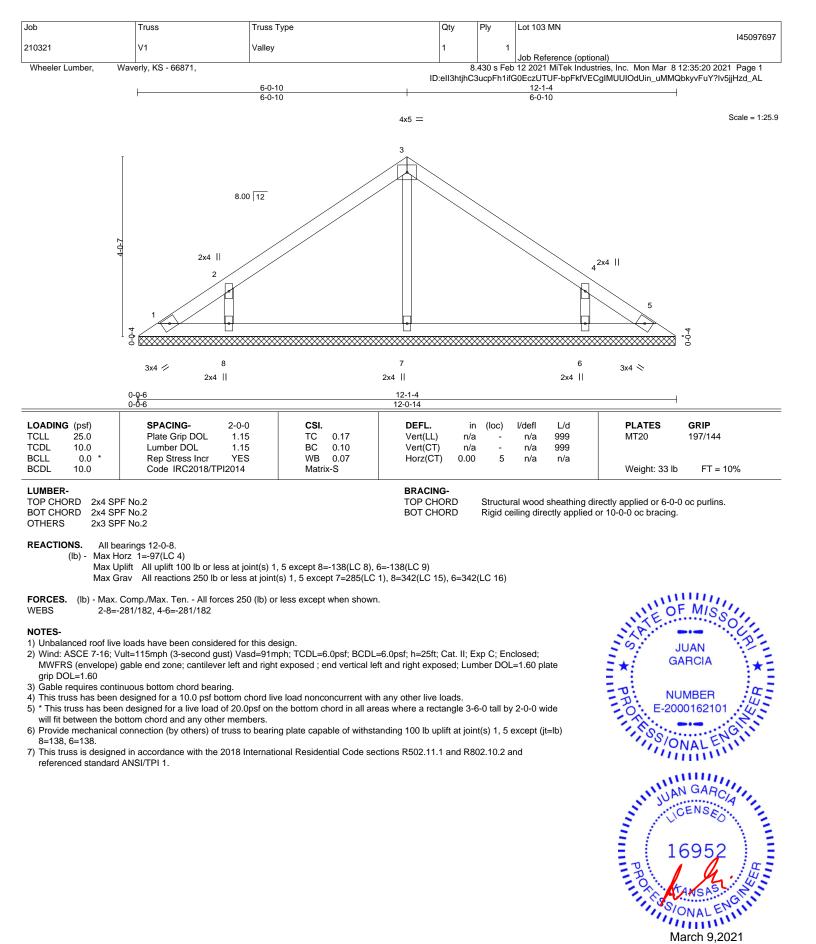


5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

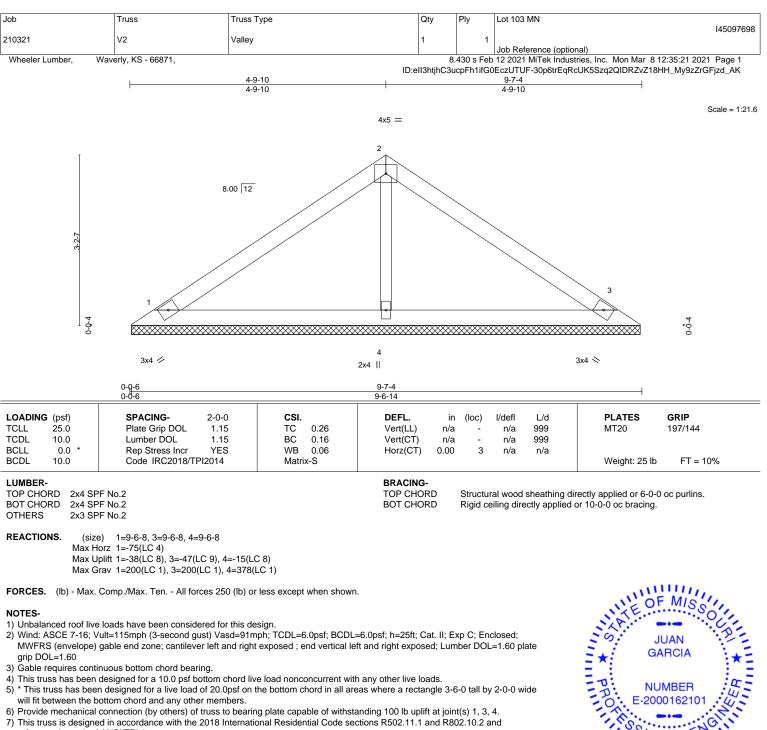
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 6)
 - will fit between the bottom chord and any other members. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 15, 11 except (it=lb) 14=103. 16=125. 12=102. 10=125.
 - 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.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017







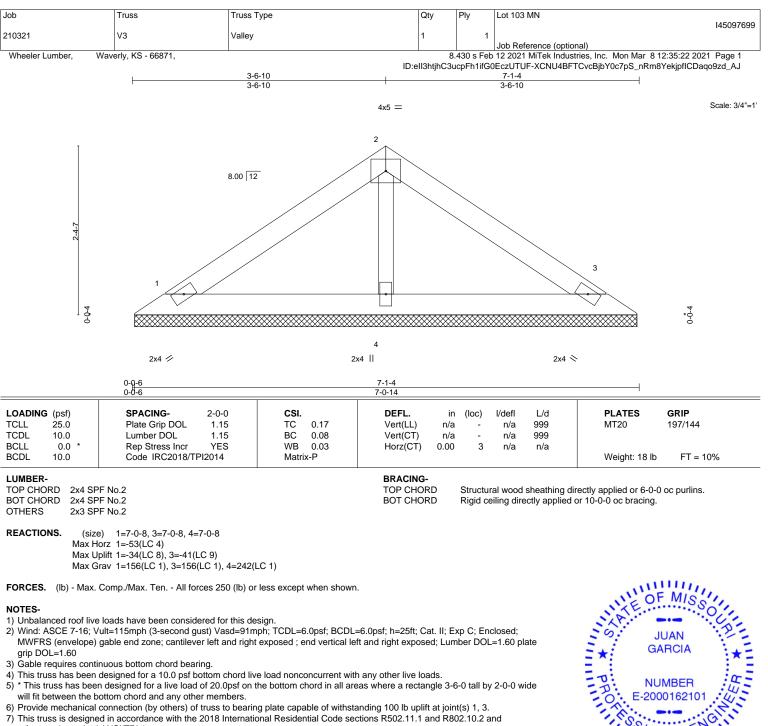
* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.

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.







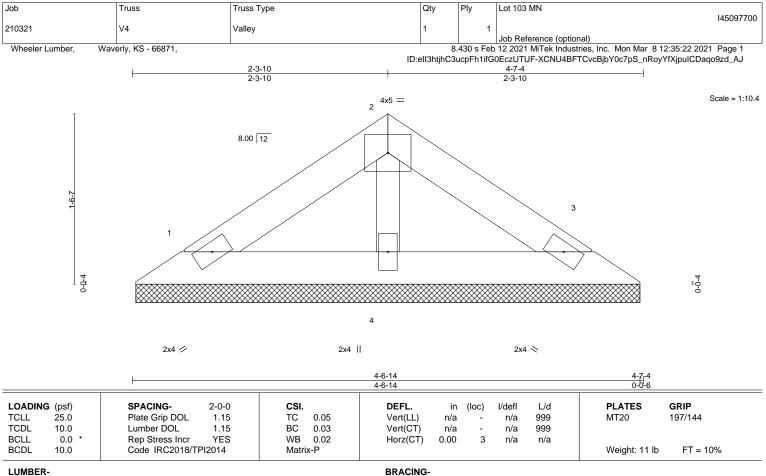
* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.

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

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.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



TOP CHORD

BOT CHORD

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

2x3 SPF No.2 REACTIONS. 1=4-6-8, 3=4-6-8, 4=4-6-8 (size)

Max Horz 1=-32(LC 4)

Max Uplift 1=-20(LC 8), 3=-24(LC 9)

Max Grav 1=92(LC 1), 3=92(LC 1), 4=143(LC 1)

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.

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

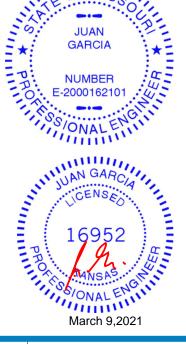
3) Gable requires continuous bottom chord bearing.

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.

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

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.



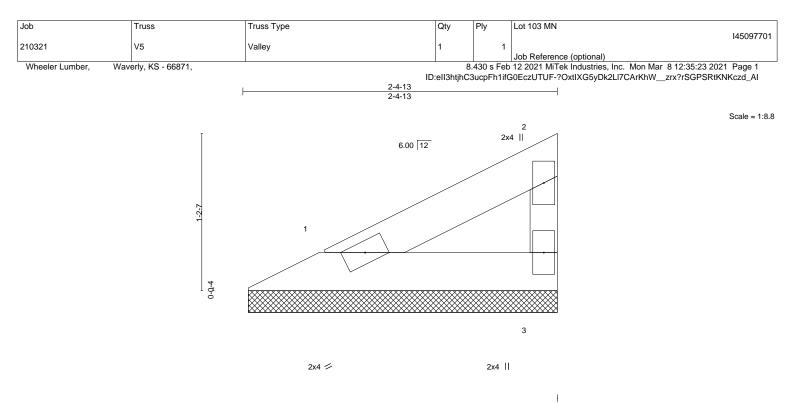
11111 MIS

0

Structural wood sheathing directly applied or 4-7-4 oc purlins.

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





| 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 0.04 | Vert(LL) n/a | - | n/a 999 | MT20 197/144 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.02 | 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/TPI2014 | Matrix-P | · · / | | | Weight: 5 lb FT = 10% |

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 1=2-4-5, 3=2-4-5 (size) Max Horz 1=35(LC 5)

Max Uplift 1=-10(LC 8), 3=-18(LC 8) Max Grav 1=75(LC 1), 3=75(LC 1)

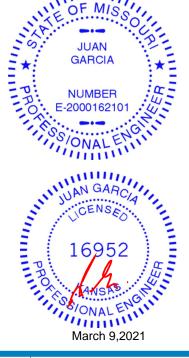
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) Gable requires continuous bottom chord bearing.

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



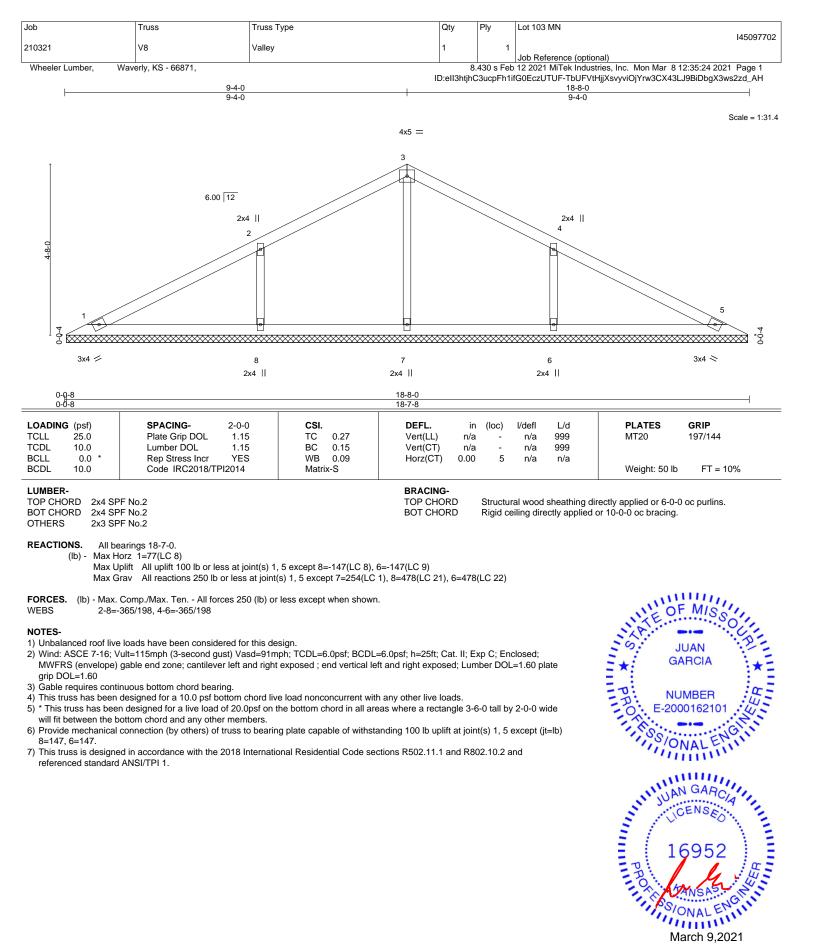
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Structural wood sheathing directly applied or 2-4-13 oc purlins,

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

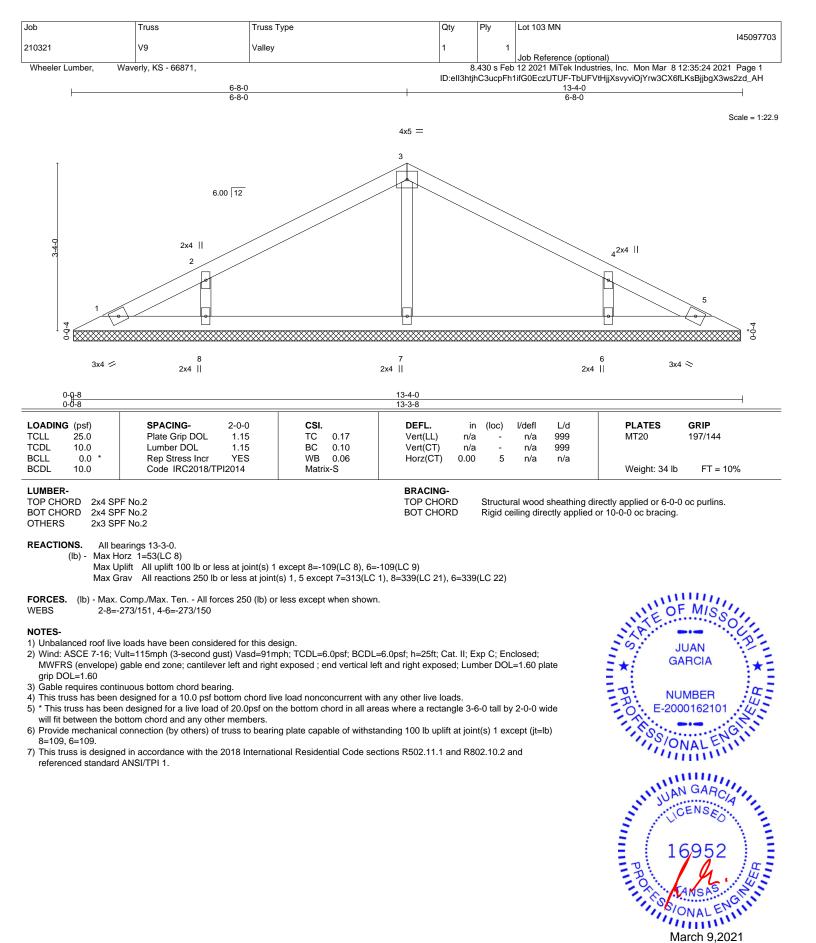
except end verticals.





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

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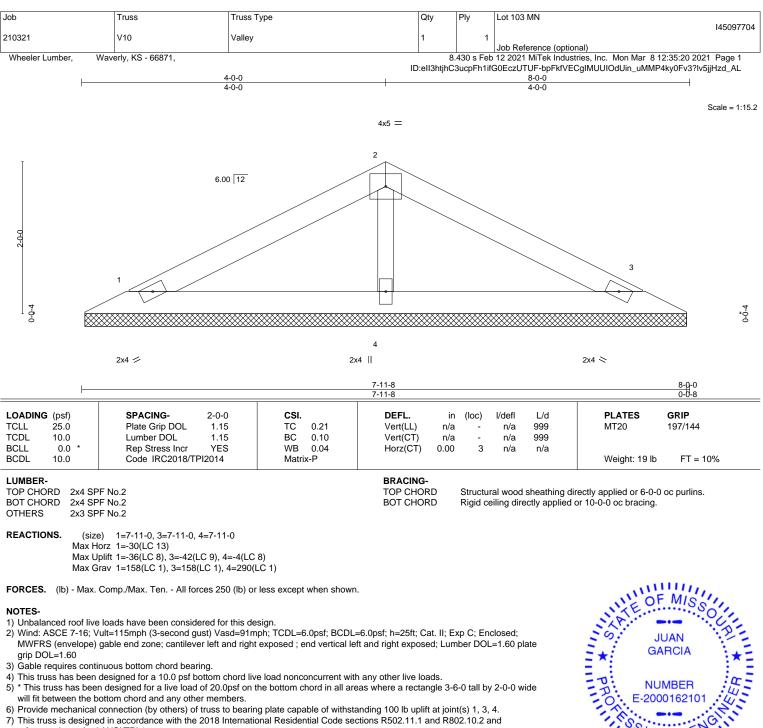


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March 9,2021

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* 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.

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.





