

RE: 400307 Lot 91 RR MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

# 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 8.2 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 81 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal#     | Truss Name | Date      | No. | Seal#     | Truss Name | Date      |
|-----|-----------|------------|-----------|-----|-----------|------------|-----------|
| 1   | I40979716 | A1         | 5/19/2020 | 27  | 140979742 | G3         | 5/19/2020 |
| 2   | 140979717 | A2         | 5/19/2020 | 28  | 140979743 | G4         | 5/19/2020 |
| 3   | 140979718 | B1         | 5/19/2020 | 29  | 140979744 | G5         | 5/19/2020 |
| 4   | 140979719 | B2         | 5/19/2020 | 30  | 140979745 | G6         | 5/19/2020 |
| 5   | 140979720 | B3         | 5/19/2020 | 31  | 140979746 | G7         | 5/19/2020 |
| 6   | 140979721 | B4         | 5/19/2020 | 32  | 140979747 | G8         | 5/19/2020 |
| 7   | 140979722 | B5         | 5/19/2020 | 33  | 140979748 | G9         | 5/19/2020 |
| 8   | 140979723 | B6         | 5/19/2020 | 34  | 140979749 | G10        | 5/19/2020 |
| 9   | 140979724 | C1         | 5/19/2020 | 35  | 140979750 | H1         | 5/19/2020 |
| 10  | 140979725 | C2         | 5/19/2020 | 36  | 140979751 | H2         | 5/19/2020 |
| 11  | 140979726 | C3         | 5/19/2020 | 37  | 140979752 | H3         | 5/19/2020 |
| 12  | 140979727 | C4         | 5/19/2020 | 38  | 140979753 | H4         | 5/19/2020 |
| 13  | 140979728 | C5         | 5/19/2020 | 39  | 140979754 | J1         | 5/19/2020 |
| 14  | 140979729 | C6         | 5/19/2020 | 40  | 140979755 | J2         | 5/19/2020 |
| 15  | 140979730 | C7         | 5/19/2020 | 41  | 140979756 | J3         | 5/19/2020 |
| 16  | 140979731 | C8         | 5/19/2020 | 42  | 140979757 | J4         | 5/19/2020 |
| 17  | 140979732 | C9         | 5/19/2020 | 43  | 140979758 | J5         | 5/19/2020 |
| 18  | 140979733 | D1         | 5/19/2020 | 44  | 140979759 | J5A        | 5/19/2020 |
| 19  | 140979734 | D2         | 5/19/2020 | 45  | 140979760 | J6         | 5/19/2020 |
| 20  | 140979735 | D3         | 5/19/2020 | 46  | 140979761 | J6A        | 5/19/2020 |
| 21  | 140979736 | D4         | 5/19/2020 | 47  | 140979762 | J7         | 5/19/2020 |
| 22  | 140979737 | E1         | 5/19/2020 | 48  | 140979763 | J8         | 5/19/2020 |
| 23  | 140979738 | E2         | 5/19/2020 | 49  | 140979764 | J9         | 5/19/2020 |
| 24  | 140979739 | E3         | 5/19/2020 | 50  | 140979765 | J10        | 5/19/2020 |
| 25  | 140979740 | G1         | 5/19/2020 | 51  | 140979766 | J11        | 5/19/2020 |
| 26  | I40979741 | G2         | 5/19/2020 | 52  | 140979767 | J12        | 5/19/2020 |
|     |           |            |           |     |           |            |           |

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: 400307 - Lot 91 RR

# Site Information:

Project Customer: Project Name: Lot/Block: Address: City, County:

|     | 2         |            |           |
|-----|-----------|------------|-----------|
| No. | Seal#     | Truss Name | Date      |
| 53  | 140979768 | J13        | 5/19/2020 |
| 54  | 140979769 | J15        | 5/19/2020 |
| 55  | 140979770 | J16        | 5/19/2020 |
| 56  | l40979771 | J17        | 5/19/2020 |
| 57  | 140979772 | J18        | 5/19/2020 |
| 58  | 140979773 | J19        | 5/19/2020 |
| 59  | 140979774 | J20        | 5/19/2020 |
| 60  | 140979775 | J21        | 5/19/2020 |
| 61  | 140979776 | J22        | 5/19/2020 |
| 62  | 140979777 | J23        | 5/19/2020 |
| 63  | 140979778 | LAY1       | 5/19/2020 |
| 64  | 140979779 | LAY2       | 5/19/2020 |
| 65  | 140979780 | LAY3       | 5/19/2020 |
| 66  | l40979781 | LAY4       | 5/19/2020 |
| 67  | 140979782 | LAY5       | 5/19/2020 |
| 68  | 140979783 | LAY6       | 5/19/2020 |
| 69  | 140979784 | LAY7       | 5/19/2020 |
| 70  | 140979785 | LAY8       | 5/19/2020 |
| 71  | 140979786 | LAY9       | 5/19/2020 |
| 72  | 140979787 | V1         | 5/19/2020 |
| 73  | 140979788 | V2         | 5/19/2020 |
| 74  | 140979789 | V3         | 5/19/2020 |
| 75  | 140979790 | V4         | 5/19/2020 |
| 76  | 140979791 | V5         | 5/19/2020 |
| 77  | 140979792 | V6         | 5/19/2020 |
| 78  | 140979793 | V7         | 5/19/2020 |
| 79  | 140979794 | V8         | 5/19/2020 |
| 80  | 140979795 | V9         | 5/19/2020 |
| 81  | 140979796 | V10        | 5/19/2020 |

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

Subdivision:

State:



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This package includes 81 individual, dated Truss Design Drawings and 0 Additional Drawings.

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| 4   | 140979719 | B2         | 5/19/2020 | 30  | 140979745 | G6         | 5/19/2020 |
| 5   | 140979720 | B3         | 5/19/2020 | 31  | 140979746 | G7         | 5/19/2020 |
| 6   | 140979721 | B4         | 5/19/2020 | 32  | 140979747 | G8         | 5/19/2020 |
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| 11  | 140979726 | C3         | 5/19/2020 | 37  | 140979752 | H3         | 5/19/2020 |
| 12  | 140979727 | C4         | 5/19/2020 | 38  | 140979753 | H4         | 5/19/2020 |
| 13  | 140979728 | C5         | 5/19/2020 | 39  | 140979754 | J1         | 5/19/2020 |
| 14  | 140979729 | C6         | 5/19/2020 | 40  | 140979755 | J2         | 5/19/2020 |
| 15  | 140979730 | C7         | 5/19/2020 | 41  | 140979756 | J3         | 5/19/2020 |
| 16  | 140979731 | C8         | 5/19/2020 | 42  | 140979757 | J4         | 5/19/2020 |
| 17  | 140979732 | C9         | 5/19/2020 | 43  | 140979758 | J5         | 5/19/2020 |
| 18  | 140979733 | D1         | 5/19/2020 | 44  | 140979759 | J5A        | 5/19/2020 |
| 19  | 140979734 | D2         | 5/19/2020 | 45  | 140979760 | J6         | 5/19/2020 |
| 20  | 140979735 | D3         | 5/19/2020 | 46  | 140979761 | J6A        | 5/19/2020 |
| 21  | 140979736 | D4         | 5/19/2020 | 47  | 140979762 | J7         | 5/19/2020 |
| 22  | 140979737 | E1         | 5/19/2020 | 48  | 140979763 | J8         | 5/19/2020 |
| 23  | 140979738 | E2         | 5/19/2020 | 49  | 140979764 | J9         | 5/19/2020 |
| 24  | 140979739 | E3         | 5/19/2020 | 50  | 140979765 | J10        | 5/19/2020 |
| 25  | 140979740 | G1         | 5/19/2020 | 51  | 140979766 | J11        | 5/19/2020 |
| 26  | I40979741 | G2         | 5/19/2020 | 52  | 140979767 | J12        | 5/19/2020 |
|     |           |            |           |     |           |            |           |

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

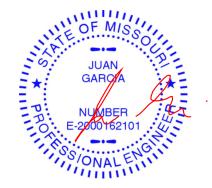
MiTek USA, Inc under my direct supervision

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, 2020. Missouri COA: 001193

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





RE: 400307 - Lot 91 RR

# Site Information:

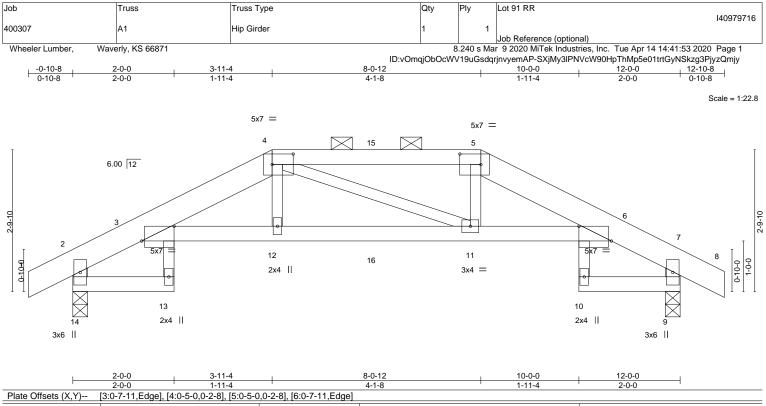
Project Customer: Project Name: Lot/Block: Address: City, County:

|     | 2         |            |           |
|-----|-----------|------------|-----------|
| No. | Seal#     | Truss Name | Date      |
| 53  | 140979768 | J13        | 5/19/2020 |
| 54  | 140979769 | J15        | 5/19/2020 |
| 55  | 140979770 | J16        | 5/19/2020 |
| 56  | I40979771 | J17        | 5/19/2020 |
| 57  | 140979772 | J18        | 5/19/2020 |
| 58  | 140979773 | J19        | 5/19/2020 |
| 59  | 140979774 | J20        | 5/19/2020 |
| 60  | 140979775 | J21        | 5/19/2020 |
| 61  | 140979776 | J22        | 5/19/2020 |
| 62  | 140979777 | J23        | 5/19/2020 |
| 63  | 140979778 | LAY1       | 5/19/2020 |
| 64  | 140979779 | LAY2       | 5/19/2020 |
| 65  | 140979780 | LAY3       | 5/19/2020 |
| 66  | l40979781 | LAY4       | 5/19/2020 |
| 67  | 140979782 | LAY5       | 5/19/2020 |
| 68  | 140979783 | LAY6       | 5/19/2020 |
| 69  | 140979784 | LAY7       | 5/19/2020 |
| 70  | 140979785 | LAY8       | 5/19/2020 |
| 71  | 140979786 | LAY9       | 5/19/2020 |
| 72  | 140979787 | V1         | 5/19/2020 |
| 73  | 140979788 | V2         | 5/19/2020 |
| 74  | 140979789 | V3         | 5/19/2020 |
| 75  | 140979790 | V4         | 5/19/2020 |
| 76  | 140979791 | V5         | 5/19/2020 |
| 77  | 140979792 | V6         | 5/19/2020 |
| 78  | 140979793 | V7         | 5/19/2020 |
| 79  | 140979794 | V8         | 5/19/2020 |
| 80  | 140979795 | V9         | 5/19/2020 |
| 81  | 140979796 | V10        | 5/19/2020 |

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

Subdivision:

State:



| Plate Offsets (X,Y)   | 3:0-7-11,Edgej, [4:0-5-0,0-2-8], [5:0-5-0  | ),0-2-8], [6:0-7-11,Edge]  |   |   |                                 |  |                                    |
|---|--|--|---|---|---------------------------------|--|------------------------------------|
| 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  | <b>CSI.</b><br>TC 0.78<br>BC 0.69<br>WB 0.12<br>Matrix-S   | Vert(LL) -0.0<br>Vert(CT) -0.1<br>Horz(CT) 0.2  | n (loc) l/defl<br>8 11-12 >999<br>5 11-12 >913<br>1 9 n/a<br>8 11-12 >999 | L/d<br>360<br>240<br>n/a<br>240 | PLATES<br>MT20<br>Weight: 47 lb  | <b>GRIP</b><br>197/144<br>FT = 10% |
| 4-5: 2x4<br>BOT CHORD 2x4 SPF<br>WEBS 2x3 SPF   | F No.2 *Except*<br>4 SPF No.2<br>F No.2<br>F No.2 *Except*<br>9: 2x4 SPF No.2  |  | BRACING-<br>TOP CHORD<br>BOT CHORD  | except end ver  | ticals, and 2-0-                | ectly applied or 4-0-1<br>0 oc purlins (4-0-13 ı<br>or 6-0-0 oc bracing. |                                    |
| Max Ho<br>Max Up  | ) 14=0-3-8, 9=0-3-8<br>brz 14=51(LC 7)<br>Jifft 14=-219(LC 8), 9=-219(LC 9)<br>rav 14=904(LC 1), 9=904(LC 1)   |  |   |   |                                 | IN EO  | FMISS                              |
| TOP CHORD         2-3=-3           2-14=           BOT CHORD         3-12=  | Comp./Max. Ten All forces 250 (lb) or<br>351/128, 3-4=-1876/495, 4-5=-1773/467<br>-897/235, 7-9=-897/232<br>-453/1748, 11-12=-456/1771, 6-11=-42<br>-60/320, 5-11=-69/338  | 7, 5-6=-1878/479, 6-7=-35  |   |   |                                 |  | IUAN<br>ARCIA                      |
| <ul> <li>2) Wind: ASCE 7-16; Vt<br/>MWFRS (envelope) g<br/>grip DOL=1.60</li> <li>3) Provide adequate dra</li> </ul>                                  | loads have been considered for this de<br>ult=115mph (3-second gust) Vasd=91m<br>gable end zone; cantilever left and right<br>ainage to prevent water ponding.<br>Jesigned for a 10.0 psf bottom chord liv   | ph; TCDL=6.0psf; BCDL=<br>exposed ; end vertical lef   | t and right exposed; Lu   |   |                                 |  | MBER<br>DO162101                   |
| <ul> <li>5) * This truss has been<br/>will fit between the bo</li> <li>6) Provide mechanical of<br/>at joint 9.</li> </ul>                            | n designed for a live load of 20.0psf on t<br>ottom chord and any other members.<br>connection (by others) of truss to bearin  | he bottom chord in all are<br>g plate capable of withsta   | as where a rectangle 3 inding 219 lb uplift at jo   | int 14 and 219 lb i   | vide<br>uplift                  | NINI JUA   | N GARCIA                           |
| referenced standard<br>8) Graphical purlin repre<br>9) Hanger(s) or other cc<br>3-11-4, and 86 lb dov<br>at 3-11-4, and 32 lb<br>such connection devi | d in accordance with the 2018 Internatio<br>ANSI/TPI 1.<br>esentation does not depict the size or the<br>onnection device(s) shall be provided su<br>wn and 61 lb up at 6-0-0, and 78 lb dow<br>down and 28 lb up at 6-0-0, and 224 lb<br>ice(s) is the responsibility of others.<br>(S) section, loads applied to the face of | e orientation of the purlin<br>ifficient to support concer<br>/n and 61 lb up at 8-0-12<br>down and 109 lb up at 8 | along the top and/or be<br>trated load(s) 78 lb dov<br>on top chord, and 224<br>-0-0 on bottom chord. | ottom chord.<br>vn and 61 lb up at<br>lb down and 109 l                   | b up<br>ion of                  |  | 6952<br>Ins A <sup>9</sup>         |
| LOAD CASE(S) Stand  | lard   |  |   |   |                                 | 119810   | April 14,2                         |

- 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.

## Continued on page 2

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 **ANSUTPIT Quality Criteria**, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



| [ | Job                  | Truss          | Truss Type | Qty | Ply       | Lot 91 RR   |
|---|----------------------|----------------|------------|-----|-----------|---|
|   |                      |                |            |     |           | 140979716   |
|   | 400307               | A1             | Hip Girder | 1   | 1         |   |
|   |                      |                |            |     |           | Job Reference (optional)  |
|   | Wheeler Lumber, Wave | erly, KS 66871 |            | 8   | .240 s Ma | r 9 2020 MiTek Industries, Inc. Tue Apr 14 14:41:54 2020 Page 2 |

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Apr 14 14:41:54 2020 Page 2 ID:vOmqjObOcWV19uGsdqrjnvyemAP-wjHkAPm18okNnAs?1Ot2esZCdEDVhqitBKoyFPzQmjx

## LOAD CASE(S) Standard

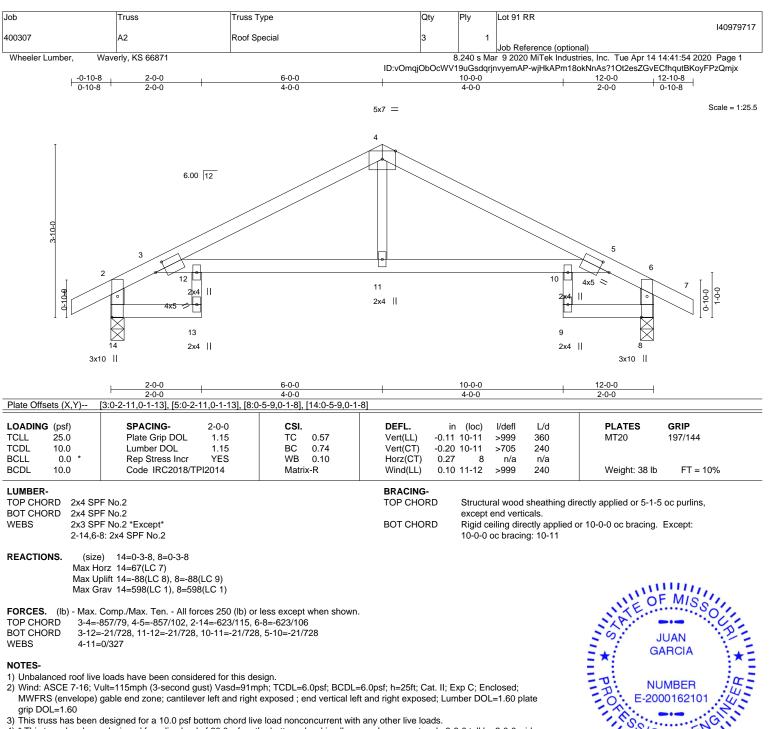
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-7=-70, 7-8=-70, 13-14=-20, 3-6=-20, 9-10=-20 Concentrated Loads (lb)

Vert: 4=-36(B) 5=-36(B) 12=-224(B) 11=-224(B) 15=-36(B) 16=-32(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 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 **ANSUTP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





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

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

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

\* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 4) will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 14 and 88 lb uplift at ioint 8.

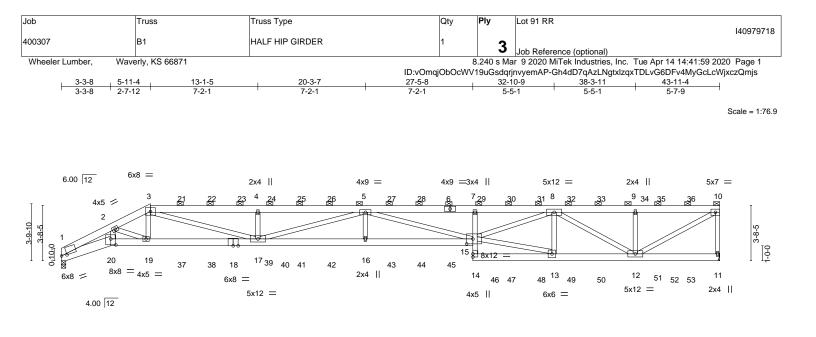
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



NUMBER

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|  | <u>3-3-8</u><br>3-3-8   | 2-7-12   | 13-1-   | -   | <u>20-3-7</u><br>7-2-1  | 27-5-8   | <u>32-10-9</u><br>5-5-1   | <u>38-3-11</u><br>5-5-1         | 43-11-                           | 4                                  |
|--|---|--|---|---|---|--|---|---------------------------------|----------------------------------|------------------------------------|
| Plate Off                              | sets (X,Y)  |  | -7,0-0-8], [15:0-5  |   |   | 1-2-1  | 5-5-1   | 5-5-1                           | 5-1-5                            |                                    |
| LOADIN<br>TCLL<br>TCDL<br>BCLL<br>BCDL | <b>G</b> (psf)<br>25.0<br>10.0<br>0.0 *<br>10.0   |  | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2018/  | 2-0-0<br>1.15<br>1.15<br>NO<br>TPI2014  | CSI.<br>TC 0.60<br>BC 0.72<br>WB 0.67<br>Matrix-S   | Vert(CT) -1<br>Horz(CT) 0  | in (loc) l/defl<br>0.64 15-16 >821<br>1.15 15-16 >454<br>0.28 11 n/a<br>0.43 15-16 >999 | L/d<br>360<br>240<br>n/a<br>240 | PLATES<br>MT20<br>Weight: 775 lb | <b>GRIP</b><br>197/144<br>FT = 10% |
| TOP CH                                 |   |  |   |   |   |  |   |                                 |                                  |                                    |
| REACTIO                                | M<br>M<br>M   | ax Horz 1<br>ax Uplift 1<br>ax Grav 1  | =0-3-8, 11=Mech<br>=106(LC 26)<br>=-363(LC 5), 11=<br>=3672(LC 1), 11=  | -352(LC 5)<br>-3691(LC 1)   |   |  |   |                                 | ULE OF                           | MISS                               |
| TOP CH                                 | FORCES.         (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.           FOP CHORD         1-2=-11762/1324, 2-3=-9991/1112, 3-4=-15425/1607, 4-5=-15423/1606, 5-7=-16990/1722,           7-8=-16611/1687, 8-9=-5628/560, 9-10=-5628/560, 10-11=-3560/389                             |  |   |   |   |  |   |                                 |                                  |                                    |
| BOT CH                                 | 5-17=-3283/318, 5-16=0/634, 5-15=-1589/166, 13-15=-839/8200, 8-15=-828/7631,<br>8-13=-1406/301, 8-12=-4606/465, 9-12=-682/224, 10-12=-624/6455  |  |   |   |   |  |   |                                 |                                  |                                    |
| Top cl<br>Bottor                       | 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:<br>Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.   |  |   |   |   |  |   |                                 |                                  |                                    |
| ply co                                 | nnections   | have beer  |   | ibute only loads  | noted as (F) or (B), ur   | back (B) face in the LOA<br>nless otherwise indicated  |   | Ply to                          | 11 UAN                           | GARCI                              |
| ÓMWF                                   | RS (envel   | ope); canti  |   | t exposed ; end v   |   | DL=6.0psf; h=25ft; Cat.  <br>xposed; Lumber DOL=1.   |   | .60                             |                                  | ENSED                              |
| 6) This tr<br>7) * This<br>will fit    | russ has b<br>truss has<br>between t  | been design<br>been desi<br>the bottom   | ned for a 10.0 ps   | bottom chord liv<br>ad of 20.0psf on the members.   |   | with any other live loads<br>I areas where a rectangle   |   | wide                            | PBO 16                           | 952 <del>#</del>                   |
| capac                                  | ity of bear   | ring surface   | э.  | Ū   |   | ain formula. Building des  |   |                                 |                                  | INSAS GIN                          |
| ́at joi<br>11) This                    | <ul> <li>10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 363 lb uplift at joint 1 and 352 lb uplift at joint 11.</li> <li>11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and</li> </ul> |  |   |   |   |  |   |                                 |                                  |                                    |
|  | referenced standard ANSI/TPI 1. April 14,2020   |  |   |   |   |  |   |                                 |                                  |                                    |
| Des<br>a tru<br>buik<br>is al<br>fabr  | ign valid for<br>uss system. I<br>ding design.<br>Iways require<br>ication, stora   | use only with<br>Before use, th<br>Bracing indic<br>ed for stability<br>age, delivery, | MiTek® connectors.<br>the building designer m<br>tated is to prevent but<br>and to prevent collap<br>erection and bracing | This design is based oust verify the application<br>kling of individual tru-<br>se with possible pers<br>of trusses and truss s | only upon parameters show<br>bility of design parameters a<br>ss web and/or chord membe<br>onal injury and property dar | FERENCE PAGE MII-7473 rev. 1<br>n, and is for an individual buildin<br>and properly incorporate this des<br>ers only. Additional temporary a<br>mage. For general guidance reg<br>TPH1 Quality Criteria, DSB-89<br>/A 22314. | ng component, not<br>sign into the overall<br>and permanent bracing<br>garding the      |                                 | 16023 Swingle<br>Chesterfield, M | y Ridge Rd<br>IO 63017             |

| Job             | Truss             | Truss Type      | Qty | Ply        | Lot 91 RR   |
|-----------------|-------------------|-----------------|-----|------------|---|
| 400307          | D1                | HALF HIP GIRDER | 1   | _          | 140979718   |
| 400307          | ы                 | HALF HIF GIRDER | 1   | 3          | Job Reference (optional)  |
| Wheeler Lumber, | Waverly, KS 66871 | ·               |     | 3.240 s Ma | r 9 2020 MiTek Industries, Inc. Tue Apr 14 14:41:59 2020 Page 2 |

#### NOTES-

ID:vOmqjObOcWV19uGsdqrjnvyemAP-Gh4dD7qAzLNgtxlzqxTDLvG6DFv4MyGcLcWjxczQmjs

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 134 lb down and 74 lb up at 5-11-4, 111 lb down and 74 lb up at 8-0-0, 111 lb down and 74 lb up at 12-0-0, 111 lb down and 74 lb up at 14-0-0, 111 lb down and 74 lb up at 18-0-0, 111 lb down and 74 lb up at 18-0-0, 111 lb down and 74 lb up at 12-0-0, 111 lb down and 74 lb up at 18-0-0, 111 lb down and 74 lb up at 22-0-0, 85 lb down and 37 lb up at 24-0-0, 66 lb down and 20 lb up at 26-0-0, 110 lb down and 74 lb up at 32-0-0, 68 lb down at 12-0-0, 68 lb down at 12-0-0, 68 lb down at 12-0-0, 68 lb down at 18-0-0, 68 lb down at 32-0-0, 68 lb down at 32-0-0, 69 lb down at 32-0

#### LOAD CASE(S) Standard

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

# Uniform Loads (plf)

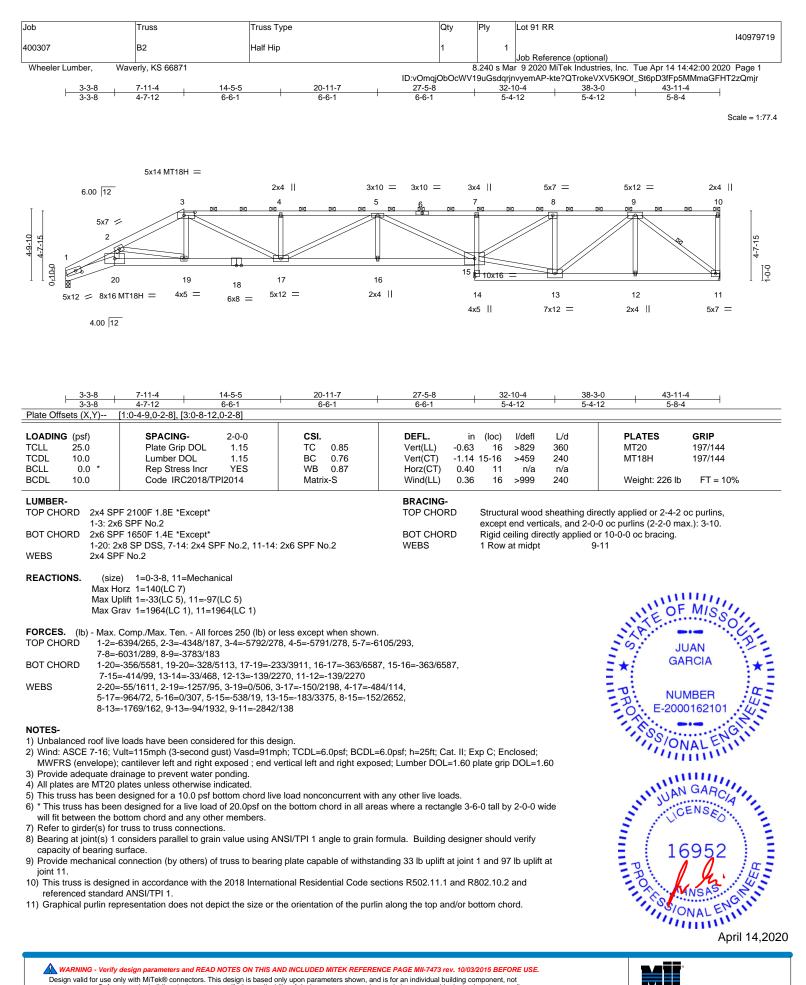
Vert: 1-3=-70, 3-10=-70, 1-20=-20, 15-20=-20, 11-14=-20

Concentrated Loads (lb)

Vert: 3=-111(F) 6=-20(F) 19=-414(F) 5=-111(F) 16=-51(F) 21=-111(F) 22=-111(F) 23=-111(F) 24=-111(F) 25=-111(F) 26=-111(F) 27=-111(F) 28=-55(F) 29=-110(F) 30=-110(F) 31=-110(F) 31=-110(F) 31=-110(F) 31=-110(F) 31=-110(F) 35=-110(F) 36=-110(F) 36=-110(F) 37=-51(F) 38=-51(F) 39=-51(F) 40=-51(F) 41=-51(F) 42=-51(F) 43=-51(F) 44=-106(F) 45=-146(F) 46=-52(F) 47=-52(F) 48=-52(F) 59=-52(F) 51=-52(F) 52=-52(F) 53=-52(F)

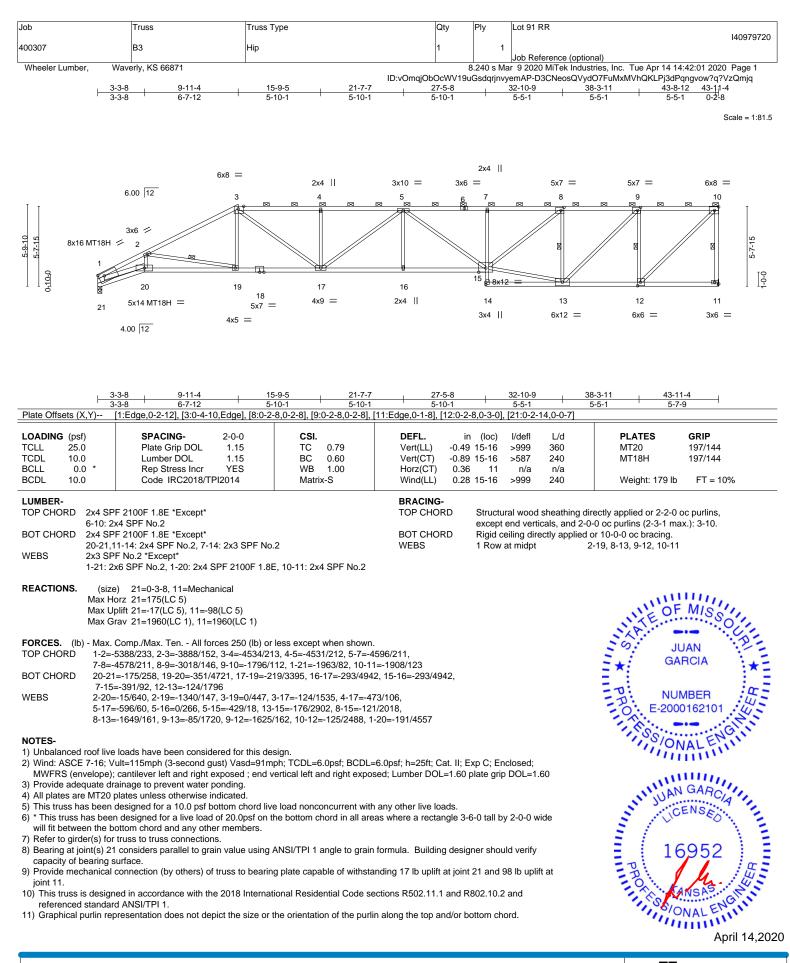
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



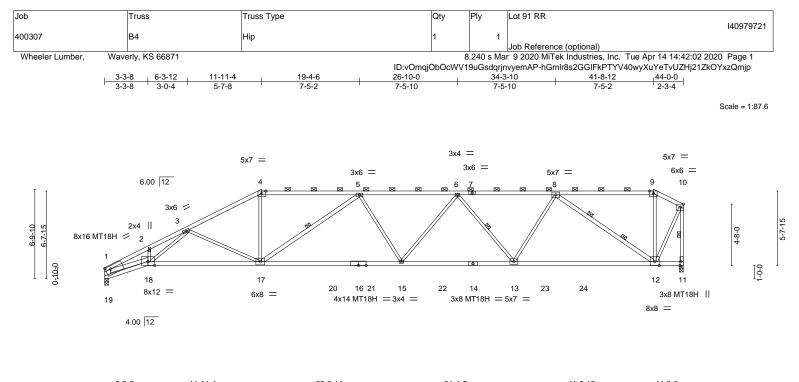


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| ł  | 3-3-8 11-11-4   | 22-6-11  |   | 31-1-5                     |                  | 41-8-12                                  |  | 4   |  |
|--|---|--|---|----------------------------|------------------|--|--|---|--|
| Plate Offsets (X,Y)  | 3-3-8 8-7-12<br>[1:Edge,0-2-12], [4:0-3-10,Edge], [9:0-3  | 10-7-7   | 1 [11:0 2 9 Edgo]   | 8-6-10                     | 40071            | 10-7-7                                   | 2-3-4  |   |  |
|  | [1.Edge,0-2-12], [4.0-3-10,Edge], [9.0-3  | 10,Eugej, [10.0-2-6,Euge   | l, [11.0-3-0,⊏uge]  | [19.0-2-14                 | 4,0-0-7]         |  |  |   |  |
| 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   | <b>CSI.</b><br>TC 0.91<br>BC 0.87<br>WB 0.82<br>Matrix-S                         | <b>DEFL.</b><br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Wind(LL)  |                            | -17 >886         | L/d<br>360<br>240<br>n/a<br>240          | <b>PLATES</b><br>MT20<br>MT18H<br>Weight: 173 lb | <b>GRIP</b><br>197/144<br>197/144<br>FT = 10% |  |
| 4-7: 2:<br>BOT CHORD 2x4 SI<br>18-19:<br>WEBS 2x3 SI<br>5-17,8   | PF No.2 *Except*<br>(4 SPF 2100F 1.8E<br>PF 2100F 1.8E *Except*<br>2x4 SPF No.2<br>PF No.2 *Except*<br>-12: 2x4 SPF No.2, 1-19: 2x6 SPF No.2<br>2x4 SPF 2100F 1.8E  |  | BRACING-<br>TOP CHOR<br>BOT CHOR<br>WEBS                      | 2-0<br>D Rig<br>1 R        | 0-0 oc purlins ( | 2-2-0 max.): 4<br>ctly applied or<br>5-1 | 6-0-0 oc bracing.<br>7, 6-13, 10-11              | and verticals, and                            |  |
| REACTIONS.       (size)       19=0-3-8, 11=0-3-8<br>Max Horz       19=220(LC 5)<br>Max Uplift       0 F M/S 8         Max Horz       19=220(LC 5)<br>Max Uplift       19=206(LC 5), 11=-297(LC 5)<br>Max Grav       19=2068(LC 2), 11=2095(LC 2)         FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.       JUAN         TOD CHORD       1.3 - 554/4/7/41 - 2.3 - 554/4/7/41 - 2.4 - 534/9/5/2 - 4.5 - 2355/4/90 - 5.6 - 4305/5/2 |   |  |   |                            |                  |  |  |   |  |
| 6-8=<br>BOT CHORD 18-1<br>WEBS 3-18  | -5541/711, 2-3=-5441/741, 3-4=-3848/52<br>-3585/537, 8-9=-846/160, 9-10=-941/162<br>9=-261/352, 17-18=-700/4076, 15-17=-7<br>=-153/1087, 3-17=-791/292, 4-17=-94/13<br>=-873/226, 8-13=-72/1217, 8-12=-2608/5 | 2, 1-19=-2085/277, 10-11=<br>65/4226, 13-15=-741/411<br>33, 5-17=-1167/337, 6-15 | 2216/253<br>1, 12-13=-564/296<br>5=0/326,                     | 4                          |                  |  | P NUM  | ABER<br>162101                                |  |
| 2) Wind: ASCE 7-16; MWFRS (envelope)   | e loads have been considered for this de<br>/ult=115mph (3-second gust) Vasd=91m<br>gable end zone; cantilever left and right   | ph; TCDL=6.0psf; BCDL=   |   |                            |                  | ate                                      | ESS/ON   | ALENGIT                                       |  |
| <ul> <li>4) All plates are MT20</li> <li>5) This truss has been</li> <li>6) * This truss has been will fit between the l</li> <li>7) Bearing at joint(s) 1 capacity of bearing</li> </ul>  | connection (by others) of truss to bearin   | he bottom chord in all are<br>th BCDL = 10.0psf.<br>ANSI/TPI 1 angle to grain    | as where a rectan<br>formula. Building<br>nding 189 lb uplift | gle 3-6-0 ta<br>designer s | should verify    |  | PR 16  | GARCIA<br>ENSEO<br>952                        |  |

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.

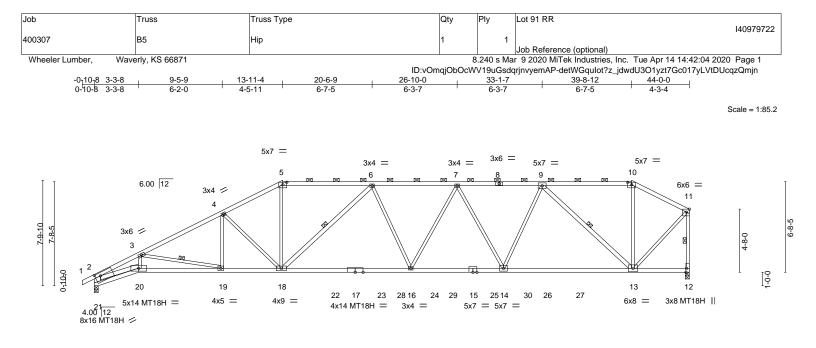
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

MALENGINIT April 14,2020

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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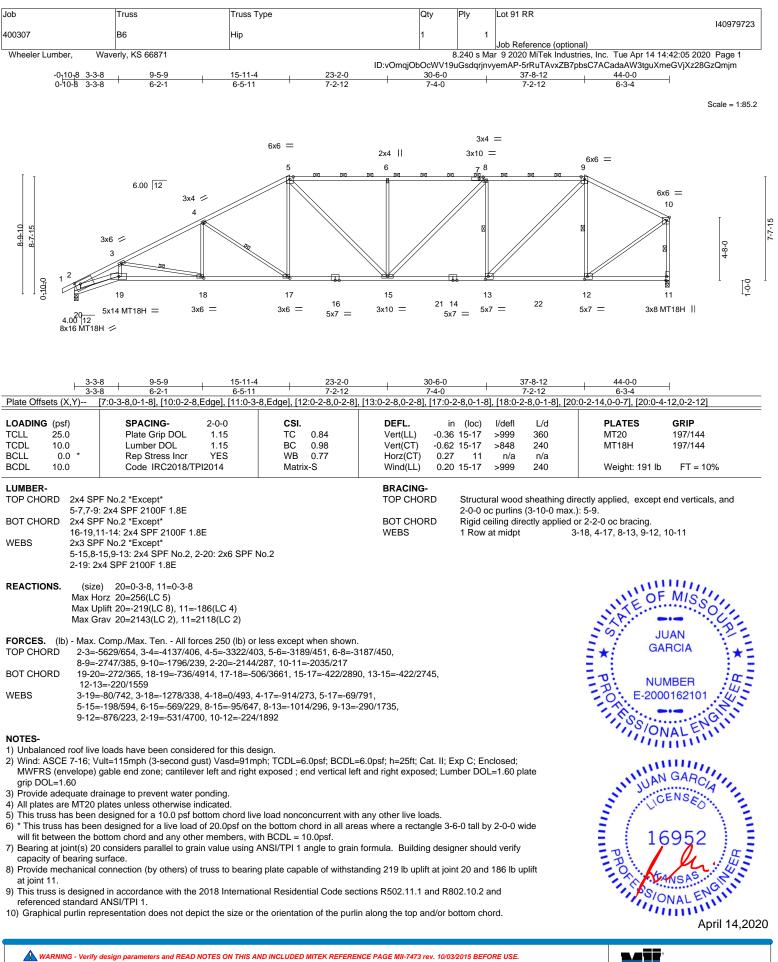


| <u>  3-3</u><br>3-3  |  | 13-11-4                                | <u>23-4-14</u><br>9-5-10                          |   | )-3-2<br>10-4                              |   |                                       | <u>39-8-12</u><br>9-5-10                                | 44-0-0   | 4   |
|--|--|--|---|---|--|---|---------------------------------------|---|--|---|
|  | [5:0-3-8,0-2-3], [10:0-3-8   |  |   |   |  | -2-14,0-                                    | 0-7]                                  | 3-3-10  | + 5 +  |   |
| LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0   | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2018/TI   | 2-0-0<br>1.15<br>1.15<br>YES<br>Pl2014 | CSI.<br>TC 0.97<br>BC 0.74<br>WB 0.96<br>Matrix-S | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Wind(LL) | in<br>-0.51 1<br>-0.89 1<br>0.29<br>0.23 1 | 16-18<br>12                                 | l/defl<br>>999<br>>588<br>n/a<br>>999 | L/d<br>360<br>240<br>n/a<br>240                         | PLATES<br>MT20<br>MT18H<br>Weight: 184 lb  | <b>GRIP</b><br>197/144<br>197/144<br>FT = 10% |
| 5-8: 2x<br>BOT CHORD 2x4 SF<br>20-21:<br>WEBS 2x3 SF<br>6-18,9-  | PF No.2 *Except*<br>44 SPF 2100F 1.8E<br>PF 2100F 1.8E *Except*<br>2x4 SPF No.2<br>PF No.2 *Except*<br>-13: 2x4 SPF No.2, 2-21:<br>2x4 SPF 2100F 1.8E  | 2x6 SPF No.2                           |   | BRACING-<br>TOP CHOR<br>BOT CHOR<br>WEBS              | 2<br>D F<br>8                              | 2-0-0 oc<br>Rigid ce<br>8-10-1 c<br>9-10-14 | c purlins (                           | 2-10-13 max<br>ctly applied o<br>g: 19-20<br>ng: 16-18. | rectly applied, except e<br>x.): 5-10.<br>or 10-0-0 oc bracing, I<br>3-19, 6-18, 9-13, 11-12 |   |
| Max H<br>Max U   | Max Horz 21=243(LC 5)<br>Max Uplift 21=-199(LC 8), 12=-237(LC 5)<br>Max Grav 21=2144(LC 2), 12=2112(LC 2)<br>FORCES. (lb) - Max Comp /Max Ten - All forces 250 (lb) or less except when shown  |  |   |   |  |   |                                       |   |  |   |
|  |  |  |   |   |  |   |                                       |   |  |   |
| <ol> <li>Unbalanced roof live</li> <li>Wind: ASCE 7-16; V<br/>MWFRS (envelope)<br/>grip DOL=1.60</li> <li>Provide adequate dr</li> <li>All plates are MT20</li> <li>This truss has been<br/>will fit between the b</li> <li>Bearing at joint(s) 2'<br/>capacity of bearing s</li> <li>Provide mechanical<br/>at joint 12.</li> <li>This truss is designer<br/>referenced standard</li> </ol> | <ul> <li>10-13=0/383, 2-20=-556/4742, 11-13=-244/1877</li> <li>NOTES- <ol> <li>Uhalanced roof live loads have been considered for this design.</li> <li>Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>Provide adequate drainage to prevent water ponding.</li> <li>All plates are MT20 plates unless otherwise indicated.</li> <li>This truss has been designed for a 10.0 psf bottom chord inveload nonconcurrent with any other live loads.</li> <li>* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.</li> <li>Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 21 and 237 lb uplift</li> </ol></li></ul> |  |   |   |  |   |                                       |   |  |   |

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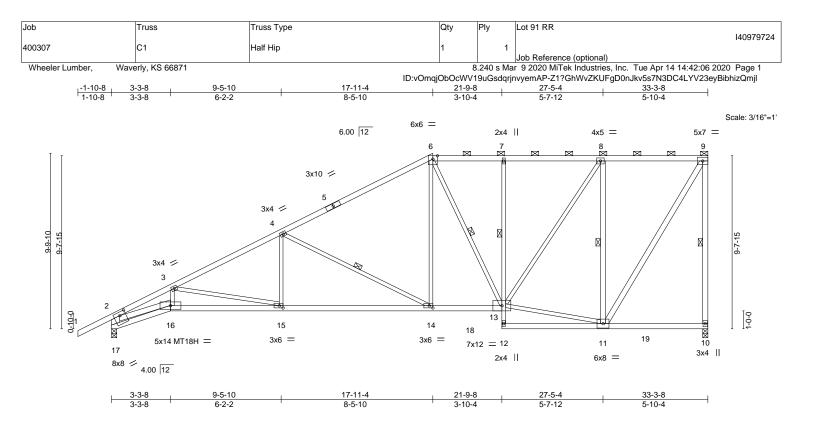






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| Plate Offsets (X,Y) [14:0-2-8,0-1-8], [15:0-2-8,0-1-8], [17:0-2-14,0-0-7], [17:0-4-0,0-2-4]  |   |   |   |  |   |   |  |  |  |  |
|--|---|---|---|--|---|---|--|--|--|--|
| LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0 *           BCDL         10.0   | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014   | CSI.<br>TC 0.93<br>BC 0.54<br>WB 0.92<br>Matrix-S | Vert(LL) -0.23<br>Vert(CT) -0.43<br>Horz(CT) 0.13 | n (loc) l/de<br>3 14-15 >99<br>3 14-15 >92<br>7 10 n<br>5 15-16 >99          | 99 360<br>24 240<br>/a n/a  | PLATES         GRIP           MT20         1997/1444           MT18PL         OF           Weight:         168 Ib         FT = 10%                          |  |  |  |  |
| 5-6: 2x<br>BOT CHORD 2x4 SF<br>13-16:<br>WEBS 2x3 SF   | PF No.2 *Except*<br>4 SPF 2100F 1.8E<br>PF No.2 *Except*<br>2x4 SPF 2100F 1.8E, 7-12: 2x3 SPF No<br>PF No.2 *Except*<br>-11,9-11,2-16: 2x4 SPF No.2, 2-17: 2x6  |   | BRACING-<br>TOP CHORD<br>BOT CHORD<br>WEBS        | 2-0-0 oc pur<br>Rigid ceiling<br>9-9-4 oc bra<br>8-1-14 oc br<br>1 Row at mi | rlins (4-8-14 max<br>directly applied<br>licing: 16-17<br>racing: 15-16.<br>dpt | JUAN<br>irectly applied, except end verticals, and<br>.): 6-9.<br>or 10-0.0 oc bracing, Except:<br>NUMBER<br>E-2000162101<br>7-13<br>9-10, 4-14, 6-18, 8-11 |  |  |  |  |
| REACTIONS.       (size)       10=0-3-8, 17=0-3-8         Max Horz       17=385(LC 8)         Max Uplift       10=-234(LC 5), 17=-210(LC 8)         Max Grav       10=1585(LC 2), 17=1664(LC 2)                               |   |   |   |  |   |   |  |  |  |  |
| TOP CHORD 2-3=   | Comp./Max. Ten All forces 250 (lb) or<br>3981/695, 3-4=-2844/357, 4-6=-1846/20<br>817/119, 9-10=-1466/260, 2-17=-1626/3   | 4, 6-7=-1381/194, 7-8=-1                          |   |  |   |   |  |  |  |  |
| WEBS 3-16=<br>6-13=  | 7=-364/187, 15-16=-928/3457, 14-15=-5<br>=-125/535, 3-15=-965/387, 4-15=0/484, ·<br>=-424/156, 11-13=-124/759, 8-13=-174/1<br>=-599/3351  | 4-14=-1079/347, 6-14=-70                          | )/776,  |  |   | UAN GARCIA  |  |  |  |  |
| <ol> <li>2) Wind: ASCE 7-16; MWFRS (envelope)<br/>DOL=1.60</li> <li>3) Provide adequate di<br/>4) All plates are MT20</li> <li>5) This truss has been</li> <li>6) * This truss has bee<br/>will fit between the b</li> </ol> | <ol> <li>Unbalanced roof live loads have been considered for this design.</li> <li>Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;<br/>MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip</li> </ol> |   |   |  |   |   |  |  |  |  |

7) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

## Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 safe truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

April 14,2020



| Job               | Truss            | Truss Type | Qty | Ply        | Lot 91 RR   |
|-------------------|------------------|------------|-----|------------|---|
|                   |                  |            |     |            | 140979724   |
| 400307            | C1               | Half Hip   | 1   | 1          |   |
|                   |                  |            |     |            | Job Reference (optional)  |
| Wheeler Lumber, V | averly, KS 66871 |            | 8   | 8.240 s Ma | r 9 2020 MiTek Industries, Inc. Tue Apr 14 14:42:06 2020 Page 2 |

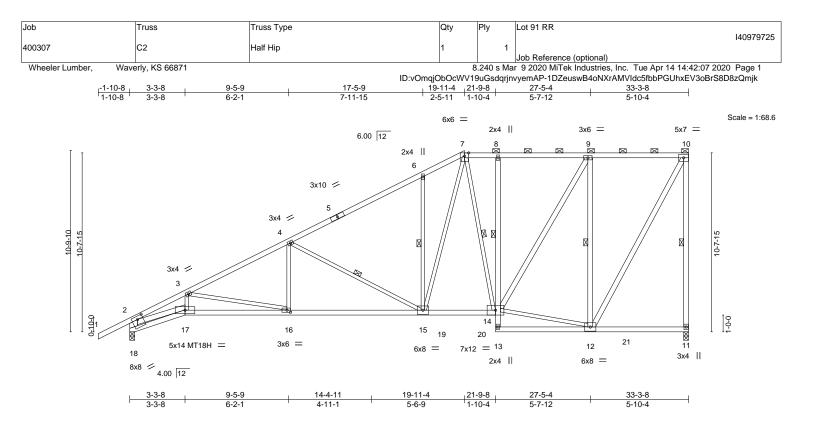
ID:vOmqjObOcWV19uGsdqrjnvyemAP-Z1?GhWvZKUFgD0nJkv5s7N3DC4LYV23eyBibhizQmjl

### NOTES-

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 234 lb uplift at joint 10 and 210 lb uplift at joint 17.
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.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 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 **ANSUTP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





| Plate Offsets (X,Y)   | [16:0-2-8,0-1-8], [18:0-4-0,0-2-4], [18:0-   | 2-14,0-0-7]  |   |  |  |  |  |  |  |
|---|--|--|---|--|--|--|--|--|--|
| 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  | <b>CSI.</b><br>TC 0.85<br>BC 0.53<br>WB 0.94<br>Matrix-S | Vert(LL) -0.22<br>Vert(CT) -0.4<br>Horz(CT) 0.1 | n (loc) l/defl<br>2 15-16 >999<br>1 15-16 >954<br>7 11 n/a<br>6 16-17 >999                       | L/d<br>360<br>240<br>n/a<br>240                                  | PLATES GRIP<br>MT20 197/144<br>MT18P OF M97/144<br>Weight 187 lb FT = 10%  |  |  |  |
| 14-17:<br>WEBS 2x3 SF   | PF No.2<br>PF No.2 *Except*<br>2x4 SPF 2100F 1.8E<br>PF No.2 *Except*<br>9-14,9-12,10-12,2-17: 2x4 SPF No.2, 2-7   | 18: 2x6 SPF No.2   | BRACING-<br>TOP CHORD<br>BOT CHORD              | except end verti<br>Rigid ceiling dire<br>9-3-11 oc bracir<br>7-9-13 oc bracir<br>1 Row at midpt | cals, and 2-0<br>ectly applied o<br>ng: 17-18<br>ng: 16-17.<br>8 | JUAN<br>rectly applied or 2-73 oc puffins,<br>-0 oc puffins (5-0-6 max.): 7-10.<br>or 10-0 oc bracing, Except:<br>NUMBER<br>0 E-2000162101 |  |  |  |
| REACTIONS.       (size)       11=0-3-8, 18=0-3-8         Max Horz       18=425(LC 8)         Max Uplift       11=-224(LC 5), 18=-213(LC 8)         Max Grav       11=1590(LC 2), 18=1665(LC 2)  |  |  |   |  |  |  |  |  |  |
| FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-3991/747, 3-4=-2839/372, 4-6=-1884/229, 6-7=-1812/352, 7-8=-1239/194,<br>8-9=-1236/193, 9-10=-740/102, 10-11=-1470/250, 2-18=-1625/346         BOT CHORD       17-18=-401/183, 16-17=-1014/3467, 15-16=-599/2504, 14-15=-226/1309, 8-14=-306/124         WEBS       3-17=-140/537, 3-16=-982/423, 4-16=0/480, 4-15=-1036/326, 6-15=-404/257,<br>7-15=-334/1100, 7-14=-384/154, 12-14=-106/686, 9-14=-212/979, 9-12=-1250/283,<br>10-12=-208/1520, 2-17=-651/3367   |  |  |   |  |  |  |  |  |  |
| <ul> <li>WEBS 3-17=-140/537, 3-16=-982/423, 4-15=-1036/326, 6-15=-404/257,<br/>7-15=-334/1100, 7-14=-384/154, 12-14=-106/686, 9-14=-212/979, 9-12=-1250/283,<br/>10-12=-208/1520, 2-17=-651/3367</li> <li>NOTES-</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>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;<br/>MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip<br/>DOL=1.60</li> <li>3) Provide adequate drainage to prevent water ponding.</li> <li>4) All plates are MT20 plates unless otherwise indicated.</li> <li>5) This truss has been designed for a 10.0 psf bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide<br/>will fit between the bottom chord and any other members, with BCDL = 10.0psf.</li> <li>7) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify<br/>capacity of bearing surface.</li> <li>Continued on page 2</li> </ul> |  |  |   |  |  |  |  |  |  |
| WARNING - Verify  | design parameters and READ NOTES ON THIS A   |  |   |  |  |  |  |  |  |
|   | nly with MiTek® connectors. This design is based on a section of the application of the a |  |   |  |  |  |  |  |  |

Design valid for use only with Mil eK® 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 **ANSUTPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd Chesterfield, MO 63017

| Job                | Truss           | Truss Type | Qty | Ply       | Lot 91 RR   |
|--------------------|-----------------|------------|-----|-----------|---|
|                    |                 |            |     |           | 140979725   |
| 400307             | C2              | Half Hip   | 1   | 1         |   |
|                    |                 |            |     |           | Job Reference (optional)  |
| Wheeler Lumber, Wa | verly, KS 66871 |            | 8   | .240 s Ma | r 9 2020 MiTek Industries, Inc. Tue Apr 14 14:42:07 2020 Page 2 |

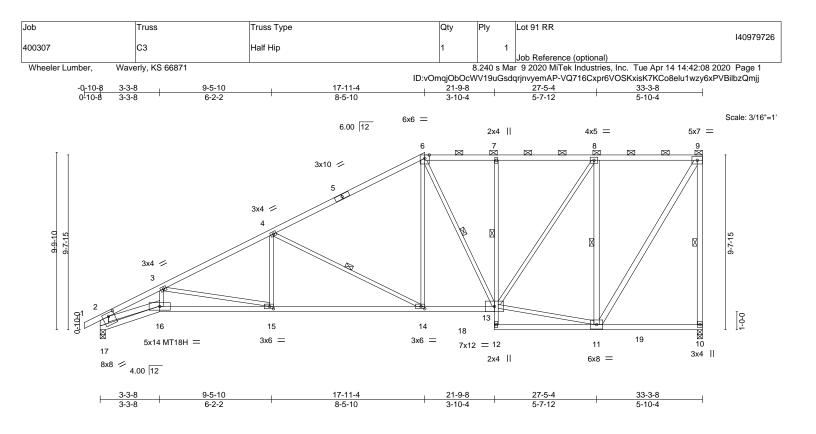
ID:vOmqjObOcWV19uGsdqrjnvyemAP-1DZeuswB4oNXrAMVIdc5fbbPGUhxEV3oBrS8D8zQmjk

### NOTES-

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 11 and 213 lb uplift at joint 18.
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.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 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 **ANSUTP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





| Plate Offsets (X,Y)  | [14:0-2-8,0-1-8], [15:0-2-8,0-1-8], [17:0  | 2-14,0-0-7], [17:0-4-0,0-2-   | 4]  |  |  |  |
|--|--|---|---|--|--|--|
| LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0   | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014  | CSI.<br>TC 0.61<br>BC 0.55<br>WB 0.95<br>Matrix-S   | Vert(LL) -0.2<br>Vert(CT) -0.4<br>Horz(CT) 0.1                        | n (loc) l/defl<br>1 14-15 >999<br>1 14-15 >971<br>7 10 n/a<br>4 15-16 >999 | L/d<br>360<br>240<br>n/a<br>240                              | PLATES GRIP<br>MT20<br>MT18H OF M97/144<br>Weight: 167 Ib FT = 10%   |
| 6-9: 2><br>BOT CHORD 2x4 SF<br>13-16:<br>WEBS 2x3 SF<br>9-10,8<br>REACTIONS. (siz<br>Max H<br>Max L  | PF 2100F 1.8E *Except*<br>44 SPF No.2<br>PF No.2 *Except*<br>2x4 SPF 2100F 1.8E, 7-12: 2x3 SPF N<br>PF No.2 *Except*<br>-11,9-11,2-16: 2x4 SPF No.2, 2-17: 2x6<br>e) 10=0-3-8, 17=0-3-8<br>lorz 17=367(LC 8)<br>Jplift 10=-234(LC 5), 17=-186(LC 8)  |   | BRACING-<br>TOP CHORD<br>BOT CHORD<br>WEBS                            | except end ver   | ticals, and 2-0<br>rectly applied<br>ng: 16-17<br>ng: 15-16. | JUAN<br>irectly applied or 3-822 of purlins,<br>)-0 oc purlins (4-8-13 max.): 6-9.<br>or 10-0 oc bracing, Except:<br>NUMBER<br>E-2000162101<br>4<br>7-13<br>9-10, 4-14, 6-13, 8-11<br>ONAL |
| FORCES.         (lb) - Max.           TOP CHORD         2-3=           8-9=           BOT CHORD         16-1           WEBS         3-16           6-13  | Grav 10=1587(LC 2), 17=1604(LC 2)<br>Comp./Max. Ten All forces 250 (lb) o<br>-4046/722, 3-4=-2863/367, 4-6=-1852/2<br>-819/119, 9-10=-1469/261, 2-17=-1621/<br>7=-423/351, 15-16=-950/3506, 14-15=-<br>=-140/578, 3-15=-994/399, 4-15=0/489,<br>=-425/156, 11-13=-124/760, 8-13=-176/<br>=-565/3245  | 07, 6-7=-1385/194, 7-8=-13<br>327<br>559/2531, 13-14=-240/1544<br>4-14=-1097/356, 6-14=-74  | , 7-13=-347/141<br>/785,  |  |  | UAN GARCIA   |
| <ol> <li>Wind: ASCE 7-16; V<br/>MWFRS (envelope)<br/>DOL=1.60</li> <li>Provide adequate d</li> <li>All plates are MT20</li> <li>This truss has been</li> <li>* This truss has been will fit between the b</li> </ol> | e loads have been considered for this de<br>/ult=115mph (3-second gust) Vasd=91r<br>gable end zone; cantilever left and righ<br>rainage to prevent water ponding.<br>plates unless otherwise indicated.<br>designed for a 10.0 psf bottom chord lin<br>in designed for a live load of 20.0psf on<br>pottom chord and any other members, w<br>7 considers parallel to grain value using | hph; TCDL=6.0psf; BCDL=<br>t exposed ; end vertical left<br>re load nonconcurrent with<br>the bottom chord in all area<br>ith BCDL = 10.0psf. | exposed; Lumber DO<br>any other live loads.<br>is where a rectangle 3 | L=1.60 plate grip<br>-6-0 tall by 2-0-0 v                                  |  | 16952<br>PROCESSIONAL ENGLISH  |

7) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

#### Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

April 14,2020



| Job                | Truss           | Truss Type | Qty | Ply       | Lot 91 RR   |
|--------------------|-----------------|------------|-----|-----------|---|
|                    |                 |            |     |           | 140979726   |
| 400307             | C3              | Half Hip   | 1   | 1         |   |
|                    |                 |            |     |           | Job Reference (optional)  |
| Wheeler Lumber, Wa | verly, KS 66871 |            | 8   | .240 s Ma | r 9 2020 MiTek Industries, Inc. Tue Apr 14 14:42:08 2020 Page 2 |

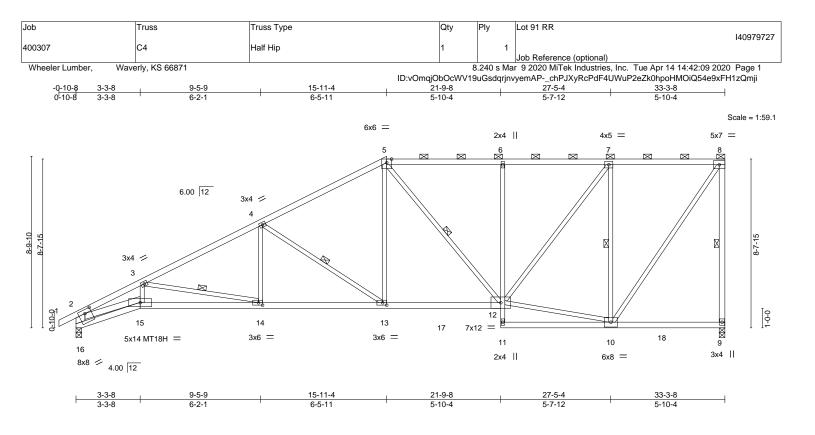
ID:vOmqjObOcWV19uGsdqrjnvyemAP-VQ716Cxpr6VOSKxisK7KCo8elu1wzy6xPVBilbzQmjj

### NOTES-

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 234 lb uplift at joint 10 and 186 lb uplift at joint 17.
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.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 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 **ANSUTP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





| Plate Offsets (X,Y)  | [13:0-2-8,0-1-8], [14:0-2-8,0-1-8], [16:0-  | 2-14,0-0-7], [16:0-4-0,0-2   | 2-4]  |   |                                      |   |
|--|---|--|---|---|--------------------------------------|---|
| LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0 *           BCDL         10.0   | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014   | CSI.<br>TC 0.59<br>BC 0.53<br>WB 0.84<br>Matrix-S  | Vert(LL) -0.21<br>Vert(CT) -0.38<br>Horz(CT) 0.18   | n (loc) l/defl<br>14-15 >999<br>14-15 >999<br>14-15 >999<br>9 n/a<br>14-15 >999 | L/d<br>360<br>240<br>n/a<br>240      | PLATES         GRIP           MT20         197/144,           MT18H         OF           Weight:         154 lb   FT = 10%                      |
| WEBS 2x3 SP  |   | .2   | BRACING-<br>TOP CHORD<br>BOT CHORD<br>WEBS  | except end vert   | icals, and 2-0-0<br>ectly applied or | JUAN<br>active applied or 2-74 for purlins,<br>ac purlins (4-2-13 max.): 5-8.<br>9-5-11 oc bracing.<br>9-3-14,4-13,5-12,440,8ER<br>E-2000162101 |
| Max He<br>Max U  | <ul> <li>9=0-3-8, 16=0-3-8</li> <li>orz 16=356(LC 5)</li> <li>plift 9=-261(LC 5), 16=-201(LC 8)</li> <li>rav 9=1588(LC 2), 16=1610(LC 2)</li> </ul>   |  |   |   |                                      | SS/ONAL ENGIN   |
| TOP CHORD 2-3=<br>7-8=<br>BOT CHORD 15-16<br>WEBS 3-15=<br>5-12=   | Comp./Max. Ten All forces 250 (lb) or<br>4106/591, 3-4=-2848/342, 4-5=-2063/24<br>915/170, 8-9=-1470/278, 2-16=-1609/26<br>3=-369/344, 14-15=-694/3571, 13-14=-4<br>-96/585, 3-14=-1085/325, 4-14=0/457, -<br>-328/107, 10-12=-204/895, 7-12=-202/1<br>469/3368   | 17, 5-6=-1597/205, 6-7=-1<br>17<br>40/2507, 12-13=-350/175<br>4-13=-889/271, 5-13=-71,   | 1590/202,<br>59, 6-12=-439/183<br>/765,   |   |                                      | AN GARO   |
| <ol> <li>Wind: ASCE 7-16; V<br/>MWFRS (envelope)<br/>grip DOL=1.60</li> <li>Provide adequate dr.</li> <li>All plates are MT20 p</li> <li>This truss has been<br/>will fit between the b</li> <li>Bearing at joint(s) 16<br/>capacity of bearing s</li> </ol> | e loads have been considered for this de<br>ult=115mph (3-second gust) Vasd=91m<br>gable end zone; cantilever left and right<br>ainage to prevent water ponding.<br>plates unless otherwise indicated.<br>designed for a 10.0 psf bottom chord liv<br>n designed for a live load of 20.0psf on t<br>ottom chord and any other members, wi<br>5 considers parallel to grain value using<br>surface.<br>connection (by others) of truss to bearin | ph; TCDL=6.0psf; BCDL=<br>exposed ; end vertical le<br>e load nonconcurrent with<br>he bottom chord in all are<br>th BCDL = 10.0psf.<br>ANSI/TPI 1 angle to grain      | ft and right exposed; Lur<br>h any other live loads.<br>bas where a rectangle 3-<br>h formula. Building desig   | nber DOL=1.60 p<br>6-0 tall by 2-0-0 v<br>gner should verify                    | vide                                 | 16952<br>Bonnal English   |
| WARNING - Verify<br>Design valid for use or<br>a truss system. Before<br>building design. Braci<br>is always required for :<br>fabrication, storage, de  | design parameters and READ NOTES ON THIS A<br>nly with MITek® connectors. This design is based o<br>b use, the building designer must verify the applicab<br>ng indicated is to prevent buckling of individual trus<br>stability and to prevent collapse with possible perso<br>livery, erection and bracing of trusses and truss sy<br>available from Truss Plate Institute, 218 N. Lee Stre   | only upon parameters shown, an<br>ility of design parameters and p<br>is web and/or chord members on<br>onal injury and property damage<br>stems, see <b>ANSI/TP11</b> | Id is for an individual building c<br>oroperly incorporate this design<br>nly. Additional temporary and<br>b. For general guidance regard<br>I Quality Criteria, DSB-89 and | omponent, not<br>into the overall<br>permanent bracing<br>ing the               | ponent                               | 16023 Swingley Ridge Rd<br>Chesterfield, MO 63017   |

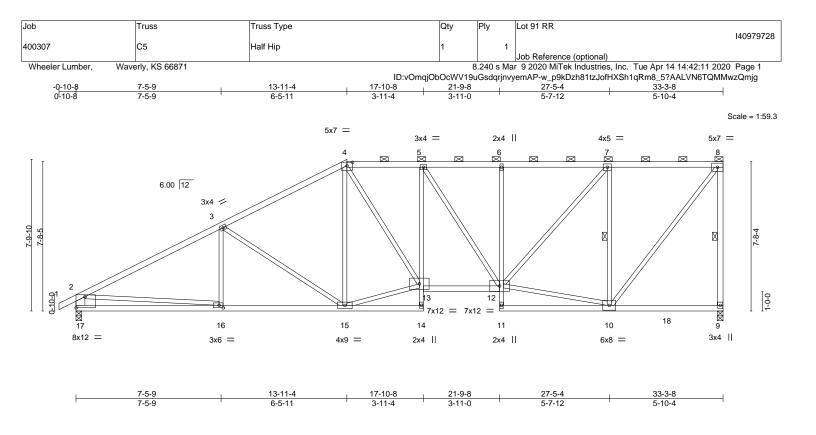
| Job   | Truss | Truss Type   | Qty | Ply | Lot 91 RR                |  |  |
|---|-------|--|-----|-----|--------------------------|--|--|
|   |       |  |     |     | 140979727                |  |  |
| 400307  | C4    | Half Hip   | 1   | 1   |                          |  |  |
|   |       |  |     |     | Job Reference (optional) |  |  |
| Wheeler Lumber, Waverly, KS 66871 8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Apr 14 14:42:09 2020 Page |       |  |     |     |                          |  |  |
|   |       | ID:vOmqjObOcWV19uGsdqrjnvyemAPchPJXyRcPdF4UWuP2eZk0hpoHMOiQ54e9xFH1zQmji |     |     |                          |  |  |

### NOTES-

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.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 ANS/ITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

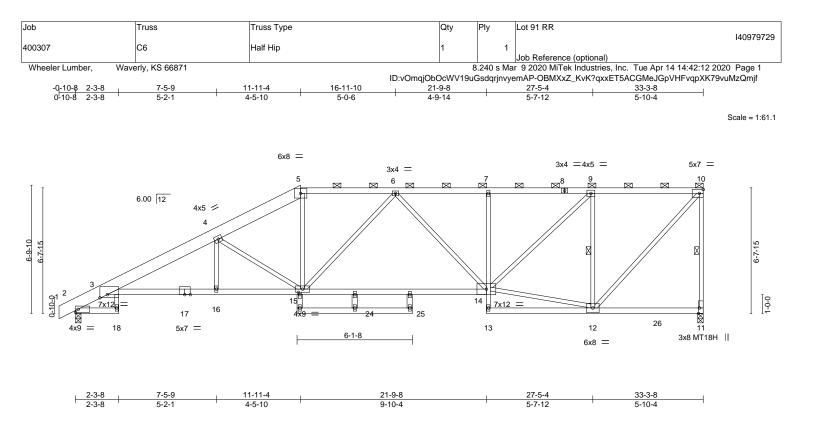




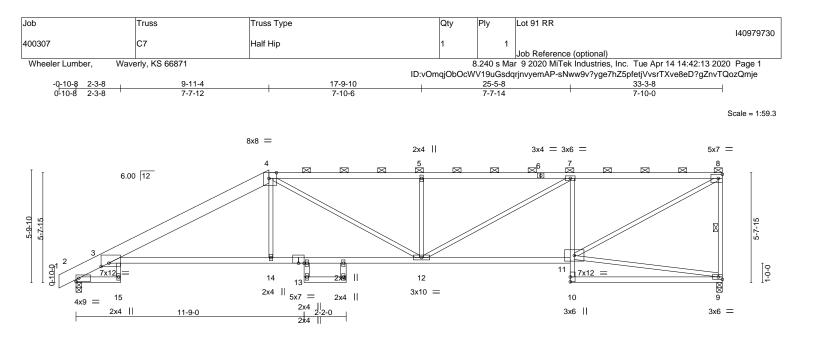
| Plate Offsets (X,Y)   | [4:0-3-8,0-2-3], [16:0-2-8,0-1-8], [17:Edg  | ge,0-6-13], [17:0-2-12,0-0  | -0]  |  |   |  |  |  |  |
|---|---|---|--|--|---|--|--|--|--|
| LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0  | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014   | <b>CSI.</b><br>TC 0.68<br>BC 0.70<br>WB 0.78<br>Matrix-S  | Vert(LL) -0.15 12-13 >5<br>Vert(CT) -0.27 12-13 >5<br>Horz(CT) 0.10 9  | defl L/d<br>299 360<br>299 240<br>n/a n/a<br>299 240 | PLATES GRIP<br>MT20<br>MT20<br>MEOF MISS<br>Weight 159 Ib - FT = 10%                                    |  |  |  |  |
|   | PF No.2<br>PF No.2 *Except*<br>-11: 2x3 SPF No.2  |   | except end   | d verticals, and 2-0-                                | JUAN<br>ectiv applied or 3-0-9 oc purlins,<br>-0 oc purlins (4-0-10 max.): 4-8.<br>or 9-2-3 oc bracing. |  |  |  |  |
|   | PF No.2 *Except*<br>4 SPF No.2, 2-17: 2x6 SPF No.2  |   | WEBS 1 Row at n  |  | -9, 7-16 NUMBER   |  |  |  |  |
| Max H<br>Max U  | e) 9=0-3-8, 17=0-3-8<br>lorz 17=316(LC 5)<br>plift 9=-266(LC 5), 17=-186(LC 8)<br>rav 9=1561(LC 2), 17=1589(LC 2)   |   |  |  | SONAL ENGLIS  |  |  |  |  |
| FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-2444/249, 3-4=-1948/218, 4-5=-2013/292, 5-6=-1782/255, 6-7=-1779/255, 7-8=-1017/193, 8-9=-1444/285, 2-17=-1484/226   |   |   |  |  |   |  |  |  |  |
| WEBS 3-15=  | 7=-354/634, 15-16=-375/2099, 12-13=-4<br>=-545/210, 13-15=-333/1702, 4-13=-155<br>=-216/1163, 7-10=-1302/356, 8-10=-282   | /705, 5-12=-429/74, 10-12   | 2=-228/973,  |  | AMUUL.  |  |  |  |  |
| <ul> <li>NOTES-</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>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</li> <li>3) Provide adequate drainage to prevent water ponding.</li> <li>4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.</li> <li>6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 266 lb uplift at joint 9 and 186 lb uplift at joint 9 and 186 lb uplift at joint 17.</li> <li>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.</li> <li>8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.</li> </ul> |   |   |  |  |   |  |  |  |  |
| Design valid for use o<br>a truss system. Before<br>building design. Braci  | design parameters and READ NOTES ON THIS A<br>not with MITek® connectors. This design is based<br>e use, the building designer must verify the applicat<br>ing indicated is to prevent buckling of individual trus<br>stability and to prevent collapse with possible perso | only upon parameters shown, an<br>bility of design parameters and p<br>ss web and/or chord members or | d is for an individual building component, not<br>roperly incorporate this design into the overall<br>nly. Additional temporary and permanent brac |  | MiTek <sup>*</sup>  |  |  |  |  |

16023 Swingley Ridge Rd Chesterfield, MO 63017

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 **ANSVTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



| Plate Offsets (X,Y)  | [3:0-4-11,0-2-0], [11:0-3-8,Edge], [15:0-   | 1-8,0-1-0]   |   |  |                                   |  |  |  |  |
|--|---|--|---|--|-----------------------------------|--|--|--|--|
| 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   | <b>CSI.</b><br>TC 0.86<br>BC 0.97<br>WB 0.65<br>Matrix-S   | Vert(LL) -0.4<br>Vert(CT) -0.7<br>Horz(CT) 0.2  | in (loc) I/defl<br>11 14-15 >964<br>75 14-15 >529<br>16 11 n/a<br>5 15-16 >999                 | L/d<br>360<br>240<br>n/a<br>240   | PLATES GRIP<br>MT20 197/144<br>MT18H, 197/144<br>OF MIS<br>Weight H 72 Hb FT = 90%   |  |  |  |
| 1-5: 2x<br>BOT CHORD 2x4 SP<br>3-18,7-<br>WEBS 2x3 SP<br>15-19,2   | -13: 2x3 SPF No.2, 14-17: 2x4 SPF 210<br>PF No.2 *Except*<br>20-21,22-23: 2x4 SPF No.2  | DF 1.8E  | BRACING-<br>TOP CHORD<br>BOT CHORD<br>WEBS  | except end vert  | icals, and 2-0-0 ectly applied or | ctly applied or 3-11-8 oc purlins,<br>oc purlins (3-7-16 max.)! 5-10.<br>2-2-0 oc bracing.<br>11, 9,12<br>NUMBER<br>E-2000162101 |  |  |  |
| REACTIONS. (size) 11=0-3-8, 2=0-3-8<br>Max Horz 2=267(LC 5)<br>Max Uplift 11=-269(LC 5), 2=-161(LC 8)<br>Max Grav 11=1583(LC 2), 2=1630(LC 2)  |   |  |   |  |                                   |  |  |  |  |
| FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-1007/68, 3-4=-3265/352, 4-5=-2643/330, 5-6=-2294/308, 6-7=-2211/324,         7-9=-2198/325, 9-10=-1212/223, 10-11=-1471/289         BOT CHORD       3-16=-533/3022, 15-16=-532/3020, 14-15=-491/2384, 7-14=-344/144         WEBS       4-15=-897/260, 5-15=-61/956, 6-14=-290/98, 12-14=-215/1283, 9-14=-238/1373,         9-12=-1350/359, 10-12=-307/1796  |   |  |   |  |                                   |  |  |  |  |
| <ul> <li>NOTES-</li> <li>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; MVFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>2) Provide adequate drainage to prevent water ponding.</li> <li>3) All plates are MT20 plates unless otherwise indicated.</li> <li>4) All plates are 2x4 MT20 unless otherwise indicated.</li> <li>5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>6) * This truss has been designed for a 10.0 psf bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.</li> <li>7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 11 and 161 lb uplift at joint 2.</li> <li>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.</li> </ul> |   |  |   |  |                                   |  |  |  |  |
| WARNING - Verify<br>Design valid for use or<br>a truss system. Before<br>building design. Braci<br>is always required for  | resentation does not depict the size or the<br>design parameters and READ NOTES ON THIS A<br>nly with MiTek® connectors. This design is based or<br>use, the building designer must verify the applicat<br>ing indicated is to prevent buckling of individual trus<br>stability and to prevent collapse with possible perse<br>elivery, erection and bracing of trusses and truss sy<br>available from Truss Plate Institute, 218 N. Lee Stro | ND INCLUDED MITEK REFERE<br>only upon parameters shown, an<br>ility of design parameters and p<br>is web and/or chord members o<br>onal injury and property damade | ENCE PAGE MII-7473 rev. 10/<br>nd is for an individual building<br>properly incorporate this designaly.<br>Additional temporary and<br>. For general guidance regar | 03/2015 BEFORE USE.<br>component, not<br>n into the overall<br>d permanent bracing<br>ding the | ponent                            | NITEK<br>16023 Swingley Ridge Rd<br>Chesterfield, MO 63017   |  |  |  |



| <u>2-3-8</u><br>2-3-8                                 | 9-11-4  | <u>17-9-10</u><br>7-10-6              |   | 25-5-8<br>7-7-14      |                          | <u>33-3-8</u><br>7-10-0 |                        |
|---|---|---------------------------------------|---|-----------------------|--------------------------|-------------------------|------------------------|
| Plate Offsets (X,Y)                                   |   | 7-10-0                                |   | 7-7-14                |                          | 7-10-0                  |                        |
| LOADING (psf)<br>TCLL 25.0<br>TCDL 10.0<br>BCLL 0.0 * | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES   | CSI.<br>TC 0.74<br>BC 0.93<br>WB 0.91 | Vert(LL) -0.25<br>Vert(CT) -0.56<br>Horz(CT) 0.34 | 3-14 >702<br>9 n/a    | L/d<br>360<br>240<br>n/a | PLATES<br>MT20          | <b>GRIP</b><br>197/144 |
| BCDL 10.0   | Code IRC2018/TPI2014  | Matrix-S                              | Wind(LL) 0.20                                     | 3-14 >999             | 240                      | Weight: 150 lb          | FT = 10%               |
| 1-4:<br>BOT CHORD 2x4<br>3-15<br>WEBS 2x3             | SPF 2100F 1.8E *Except*<br>2x8 SP DSS<br>SPF No.2 *Except*<br>,7-10: 2x3 SPF No.2<br>SPF No.2 *Except*<br>8,17-19: 2x4 SPF No.2 |                                       | BRACING-<br>TOP CHORD<br>BOT CHORD<br>WEBS        |                       | als, and 2-0-0           | 0                       |                        |
| Max<br>Max<br>Max                                     | size) 9=0-3-8, 2=0-3-8<br>(Horz 2=226(LC 5)<br>(Uplift 9=-272(LC 5), 2=-141(LC 8)<br>(Grav 9=1486(LC 1), 2=1572(LC 1)           |                                       |   |                       |                          | NA A.                   | MISSOU                 |
| TOP CHORD 2-3   | их. Comp./Max. Ten All forces 250 (lb) о<br>3=-917/84, 3-4=-2744/371, 4-5=-2896/487<br>9=-1409/321                              |                                       |   |                       |                          |                         | JAN<br>RCIA            |
|   | 14=-475/2452, 12-14=-472/2455, 11-12=-4<br>14=0/333, 4-12=-215/502, 5-12=-541/235,  |                                       | 6/2451  |                       |                          | D NUN                   | MBER C                 |
| NOTES-  |   |                                       |   |                       |                          | -D. E-2000              | 0162101                |
| MWFRS (envelop<br>grip DOL=1.60                       | ; Vult=115mph (3-second gust) Vasd=91r<br>e) gable end zone; cantilever left and righ<br>drainage to prevent water ponding.     |                                       |   |                       | te                       | ASSION                  | VALENGINI              |
|   | en designed for a 10.0 psf bottom chord liv   | e load nonconcurrent with             | n any other live loads.                           |                       |                          |                         | 1111                   |
|   | een designed for a live load of 20.0psf on e bottom chord and any other members.  | the bottom chord in all are           | eas where a rectangle 3-0                         | 6-0 tall by 2-0-0 wid | le                       |                         |                        |
|   | cal connection (by others) of truss to bearing  | ng plate capable of withsta           | anding 272 lb uplift at joir                      | nt 9 and 141 lb upli  | t at                     | UAN JUAN                | GARCIA                 |
|   | ned in accordance with the 2018 Internati<br>ard ANSI/TPI 1.  | onal Residential Code sec             | ctions R502.11.1 and R8                           | 02.10.2 and           |                          | ZYN MIC                 | ENSED                  |
| 7) Graphical purlin re                                | epresentation does not depict the size or t   | he orientation of the purlin          | along the top and/or bot                          | tom chord.            |                          |                         |                        |

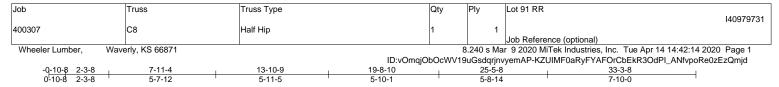
ct the size or the orientation of the purlin along the top and/or bottom ch



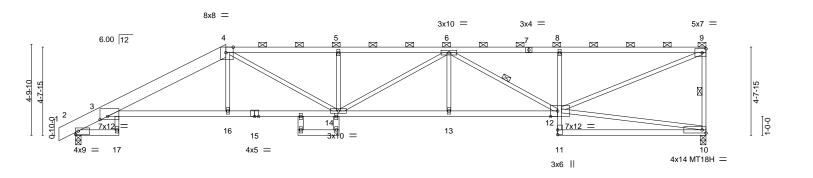
April 14,2020

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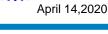


Scale = 1:60.8

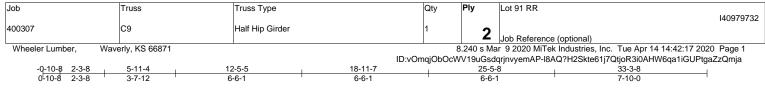


| 2-3-8  |  | 3-10-9<br>-11-5  | 19-8-10<br>5-10-1                                     |                        | 25-5-8<br>5-8-14 |                                   | <u>33-3-8</u><br>7-10-0   |   |
|--|--|--|---|------------------------|------------------|-----------------------------------|---|---|
| Plate Offsets (X,Y)  | [3:0-4-11,0-2-0], [4:0-4-10,Edge], [12:0   | -4-8,Edge]   |   |                        |                  |                                   |   |   |
| 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  | <b>CSI.</b><br>TC 0.79<br>BC 0.94<br>WB 1.00<br>Matrix-S | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Wind(LL) | -0.35<br>-0.64<br>0.35 |                  | L/d<br>360<br>240<br>n/a<br>240   | PLATES<br>MT20<br>MT18H<br>Weight: 146 lb   | <b>GRIP</b><br>197/144<br>197/144<br>FT = 10% |
| 4-7: 2<br>BOT CHORD 2x4 S<br>3-17,<br>WEBS 2x3 S   | P DSS *Except*<br>x4 SPF No.2, 7-9: 2x4 SPF 2100F 1.8E<br>PF No.2 *Except*<br>3-11: 2x3 SPF No.2<br>PF No.2 *Except*<br>,14-19: 2x4 SPF No.2   | 1  | BRACING-<br>TOP CHOR<br>BOT CHOR<br>WEBS              | D                      | except end verti | cals, and 2-0-<br>ectly applied o | rectly applied or 4-1-0 c<br>-0 oc purlins (2-5-8 ma<br>or 2-2-0 oc bracing.<br>-10, 6-12 |   |
| Max<br>Max   | ze) 10=0-3-8, 2=0-3-8<br>Horz 2=184(LC 7)<br>Uplift 10=-275(LC 5), 2=-157(LC 5)<br>Grav 10=1486(LC 1), 2=1572(LC 1)  |  |   |                        |                  |                                   | INTE OF   | MISSO   |
| TOP CHORD         2-3:           8-9:         8-9:           BOT CHORD         3-10  | <ul> <li>Comp./Max. Ten All forces 250 (lb) c</li> <li>-917/102, 3-4=-3001/449, 4-5=-3604/62</li> <li>-2680/494, 9-10=-1404/324</li> <li>5=-526/2721, 14-16=-522/2723, 13-14=-</li> <li>4=-274/1009, 5-14=-412/181, 6-13=0/25</li> </ul>                     | 4, 5-6=-3603/635, 6-8=-2<br>698/3576, 12-13=-698/357     | 682/487,<br>76, 8-12=-536/226                         |                        |                  |                                   | ★ GA  |   |
| MWFRS (envelope<br>grip DOL=1.60<br>2) Provide adequate  | Vult=115mph (3-second gust) Vasd=91<br>) gable end zone; cantilever left and rigt<br>drainage to prevent water ponding.<br>) plates unless otherwise indicated.  |  |   |                        |                  |                                   | SS/01   | MBER<br>D162101                               |
| <ul> <li>4) All plates are 2x4 f</li> <li>5) This truss has bee</li> <li>6) * This truss has bee will fit between the</li> <li>7) Provide mechanica at joint 2.</li> </ul> | AT20 unless otherwise indicated.<br>In designed for a 10.0 psf bottom chord li<br>en designed for a live load of 20.0psf on<br>bottom chord and any other members.<br>Il connection (by others) of truss to bear<br>and in accordance with the 2018 Internat | the bottom chord in all are                              | eas where a rectan                                    | gle 3-6-<br>at joint   | 10 and 157 lb u  | ide<br>plift                      | The Te  | GARCIA  |
| referenced standar   |  |  |   |                        |                  |                                   | 16<br>PROFILE   | April 14 2020                                 |

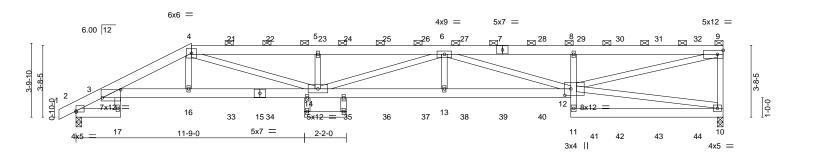
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Scale = 1:59.3



| <u>2-3-8</u><br>2-3-8  | 5-11-4   | 12-5-5<br>6-6-1   |  | 11-7<br>6-1   |                        | 25-5<br>6-6                            |                                       |                                 | <u>33-3-8</u><br>7-10-0          |                                    |
|--|--|---|--|---|------------------------|--|---------------------------------------|---------------------------------|----------------------------------|------------------------------------|
| Plate Offsets (X,Y)  | [2:0-0-0,0-0-11], [3:0-11-   | 3,0-5-0], [12:0-3                                       | 3-12,0-4-0]  |   |                        |  |                                       |                                 |                                  |                                    |
| LOADING (psf)<br>TCLL 25.0<br>TCDL 10.0<br>BCLL 0.0 *<br>BCDL 10.0   | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2018/T                                      | 2-0-0<br>1.15<br>1.15<br>NO<br>PI2014                   | CSI.<br>TC 0.69<br>BC 0.50<br>WB 0.93<br>Matrix-S              | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Wind(LL) | -0.40<br>-0.73<br>0.29 | (loc)<br>13-14<br>13-14<br>10<br>13-14 | l/defl<br>>982<br>>545<br>n/a<br>>999 | L/d<br>360<br>240<br>n/a<br>240 | PLATES<br>MT20<br>Weight: 403 lb | <b>GRIP</b><br>197/144<br>FT = 10% |
| LUMBER-       BRACING-         TOP CHORD       2x6 SPF No.2 *Except*       TOP CHORD       Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-6 max.): 4-9.         BOT CHORD       2x6 SP 2400F 2.0E *Except*       BOT CHORD       Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-17.         WEBS       2x4 SPF No.2       2x4 SPF No.2       BOT CHORD       Structural wood sheathing directly applied or 10-0-0 oc bracing. |  |   |  |   |                        |  |                                       |                                 | ax.): 4-9.                       |                                    |
| Max H<br>Max U   | e) 10=0-3-8, 2=0-3-8<br>lorz 2=107(LC 26)<br>lplift 10=-314(LC 5), 2=-2<br>brav 10=2820(LC 1), 2=2                 |   |  |   |                        |  |                                       |                                 | ILLE OF                          | MISSO                              |
| FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-1795/199, 3-4=-7265/889, 4-5=-9850/1208, 5-6=-9847/1207, 6-8=-7529/918,<br>8-9=-7363/915, 9-10=-2596/398         BOT CHORD       3-17=-28/324, 3-16=-877/6647, 14-16=-873/6578, 13-14=-1313/10418,<br>12-13=-1313/10418, 11-12=0/305, 8-12=-893/268, 10-11=-3/496   |  |   |  |   |                        |  |                                       |                                 |                                  |                                    |
| WEBS 4-16:<br>6-12:  | =-63/1076, 4-14=-445/35<br>=-3048/375, 10-12=-383/   | 55, 5-14=-776/2   | 14, 6-14=-656/103, 6-13=                                       | =0/490,   |                        |  |                                       |                                 | - 2.                             | MBER<br>0162101                    |
| Top chords connect<br>Bottom chords conn<br>Webs connected as  | nnected together with 10c<br>ed as follows: 2x6 - 2 row<br>nected as follows: 2x6 - 2<br>follows: 2x4 - 1 row at 0 | vs staggered at rows staggered<br>9-0 oc.               | 0-9-0 oc, 2x4 - 1 row at 0<br>at 0-9-0 oc, 2x4 - 1 row a       | at 0-9-0 oc.  |                        |  |                                       |                                 | KSS/O                            | VALENGINI                          |
| <ul><li>a) Unbalanced roof live</li><li>b) Wind: ASCE 7-16; \</li></ul>  | ered equally applied to all<br>the been provided to distrib<br>e loads have been consid<br>/ult=115mph (3-second g | oute only loads r<br>ered for this des<br>ust) Vasd=91m | noted as (F) or (B), unless<br>sign.<br>ph; TCDL=6.0psf; BCDL= | s otherwise indica<br>=6.0psf; h=25ft; C              | ated.<br>Cat. II; E    | xp C; En                               | closed;                               |                                 | The LO                           | GARCIA                             |
| <ul><li>5) Provide adequate d</li><li>6) All plates are 2x4 M</li><li>7) This truss has been</li></ul>   | ; cantilever left and right<br>rainage to prevent water<br>T20 unless otherwise ind<br>designed for a 10.0 psf b   | ponding.<br>icated.<br>oottom chord live                | e load nonconcurrent with                                      | any other live lo                                     | ads.                   |  |                                       |                                 |                                  | 5952 E                             |
| <ul> <li>8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.</li> <li>9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 314 lb uplift at joint 10 and 284 lb uplift at joint 2.</li> </ul>  |  |   |  |   |                        |  |                                       | AMSAS ANA                       |                                  |                                    |
| referenced standa<br>11) Graphical purlin re   | ned in accordance with th<br>rd ANSI/TPI 1.<br>presentation does not de  |   |  |   |                        |  |                                       |                                 | 1110S/C                          | April 14,2020                      |
| Continued on page 2  |  |   |  |   |                        |  |                                       |                                 |                                  |                                    |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





| Job                  | Truss          | Truss Type      | Qty | Ply       | Lot 91 RR   |
|----------------------|----------------|-----------------|-----|-----------|---|
|                      |                |                 |     |           | 140979732   |
| 400307               | C9             | Half Hip Girder | 1   | 2         |   |
|                      |                |                 |     | -         | Job Reference (optional)  |
| Wheeler Lumber, Wave | erly, KS 66871 |                 |     | .240 s Ma | r 9 2020 MiTek Industries, Inc. Tue Apr 14 14:42:17 2020 Page 2 |

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Apr 14 14:42:17 2020 Page 2 ID:vOmgjObOcWV19uGsdqrjnvyemAP-I8AQ?H2Skte61j7QtjoR3i0AHW6qa1iGUPtgaZzQmja

#### NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down and 63 lb up at 5-11-4, 100 lb down and 63 lb up at 8-0-0, 100 lb down and 63 lb up at 10-0-0, 100 lb down and 63 lb up at 12-0-0, 97 lb down and 50 lb up at 14-0-0, 97 lb down and 50 lb up at 18-0-0, 97 lb down and 50 lb up at 18-0-0, 97 lb down and 50 lb up at 22-0-0, 97 lb down and 50 lb up at 24-0-0, 110 lb down and 74 lb up at 26-0-0, 110 lb down and 74 lb up at 28-0-0, and 110 lb down and 74 lb up at 30-0-0, and 110 lb down and 74 lb up at 32-0-0 on top chord, and 443 lb down and 138 lb up at 5-11-4, 76 lb down at 8-0-0, 76 lb down and 25 lb up at 18-0-0, 80 lb down and 25 lb up at 16-0-0, 80 lb down and 25 lb up at 20-0-0, 80 lb down and 25 lb up at 20-0-0, 69 lb down at 26-0-0, 69 lb down at 28-0-0, and 69 lb down at 30-0-0, and 69 lb down at 32-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

# 13) Filler applied to ply: 1(Front)

## LOAD CASE(S) Standard

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

Uniform Loads (plf)

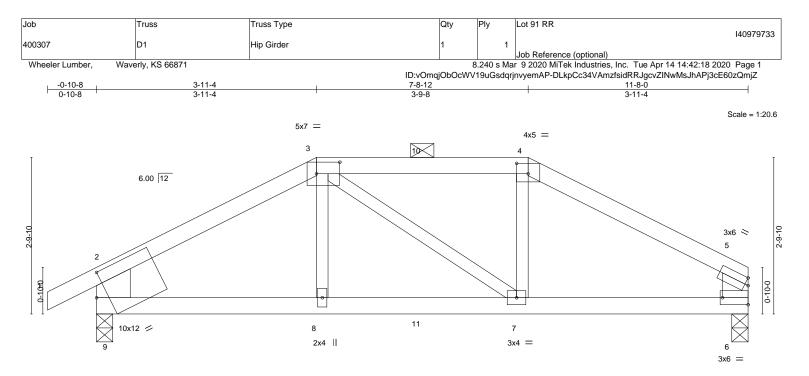
Vert: 1-3=-70, 3-4=-70, 4-9=-70, 2-17=-20, 3-12=-20, 10-11=-20

Concentrated Loads (lb)

Vert: 4=-97(B) 7=-81(B) 16=-443(B) 21=-97(B) 22=-97(B) 23=-97(B) 24=-81(B) 25=-81(B) 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 **ANSIVTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





|             | L         | 3-11-4                      |                 |                |               | 7-8-12                |           |       |        |     | 11-8-0        |          |
|-------------|-----------|-----------------------------|-----------------|----------------|---------------|-----------------------|-----------|-------|--------|-----|---------------|----------|
|             | 1         | 3-11-4                      |                 | 1              |               | 3-9-8                 |           |       |        |     | 3-11-4        | 1        |
| Plate Offse | ets (X,Y) | [2:0-4-1,0-0-0], [3:0-5-0,0 | -2-8], [4:0-2-8 | ,0-2-4], [6:Ed | ge,0-1-8], [9 | 9:0-3-4,0-1-10], [9:0 | )-2-7,0-4 | -14]  |        |     |               |          |
| LOADING     | (psf)     | SPACING-                    | 2-0-0           | CSI.           |               | DEFL.                 | in        | (loc) | l/defl | L/d | PLATES        | GRIP     |
| TCLL        | 25.0      | Plate Grip DOL              | 1.15            | тс             | 0.86          | Vert(LL)              | -0.10     | 7-8   | >999   | 360 | MT20          | 197/144  |
| TCDL        | 10.0      | Lumber DOL                  | 1.15            | BC             | 0.89          | Vert(CT)              | -0.18     | 7-8   | >757   | 240 |               |          |
| BCLL        | 0.0 *     | Rep Stress Incr             | NO              | WB             | 0.08          | Horz(CT)              | 0.02      | 6     | n/a    | n/a |               |          |
| BCDL        | 10.0      | Code IRC2018/TF             | PI2014          | Matri          | k-S           | Wind(LL)              | 0.08      | 7-8   | >999   | 240 | Weight: 39 lb | FT = 10% |

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\* 2-9: 2x8 SP DSS, 5-6: 2x6 SP DSS BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-11-11 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-12 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8 Max Horz 9=59(LC 5) Max Uplift 9=-205(LC 8), 6=-176(LC 9) Max Grav 9=883(LC 1), 6=788(LC 1)

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

2-3=-1096/261, 3-4=-898/253, 4-5=-1088/259, 2-9=-772/212, 5-6=-653/177 TOP CHORD

BOT CHORD 8-9=-219/880, 7-8=-218/890, 6-7=-196/890

3-8=0/253

# WEBS

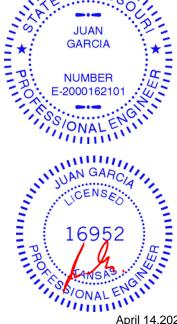
- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 9 and 176 lb uplift at joint 6.
- 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) 78 lb down and 76 lb up at 3-11-4, and 86 lb down and 76 lb up at 5-10-0, and 78 lb down and 76 lb up at 7-8-12 on top chord, and 215 lb down and 77 lb up at 3-11-4, and 30 lb down at 5-10-0, and 215 lb down and 77 lb up at 7-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
  - Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 6-9=-20

#### Continued on page 2

🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 **ANSUTPIT Quality Criteria**, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



ALL DI

FMIS 0

April 14,2020



| Job                  | Truss          | Truss Type | Qty | Ply       | Lot 91 RR   |
|----------------------|----------------|------------|-----|-----------|---|
|                      |                |            |     |           | 140979733   |
| 400307               | D1             | Hip Girder | 1   | 1         |   |
|                      |                |            |     |           | Job Reference (optional)  |
| Wheeler Lumber, Wave | erly, KS 66871 |            | 8   | .240 s Ma | r 9 2020 MiTek Industries, Inc. Tue Apr 14 14:42:18 2020 Page 2 |

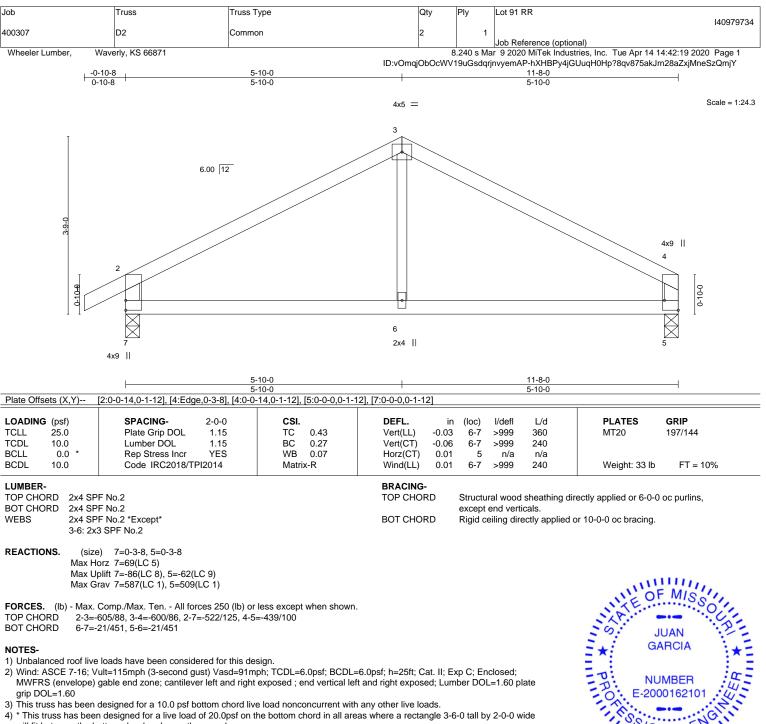
ID:vOmgjObOcWV19uGsdqrjnvyemAP-DLkpCc34VAmzfsidRRJgcvZINwMsJhAPj3cE60zQmjZ

### LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 3=-45(F) 4=-45(F) 8=-215(F) 7=-215(F) 10=-45(F) 11=-24(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





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.

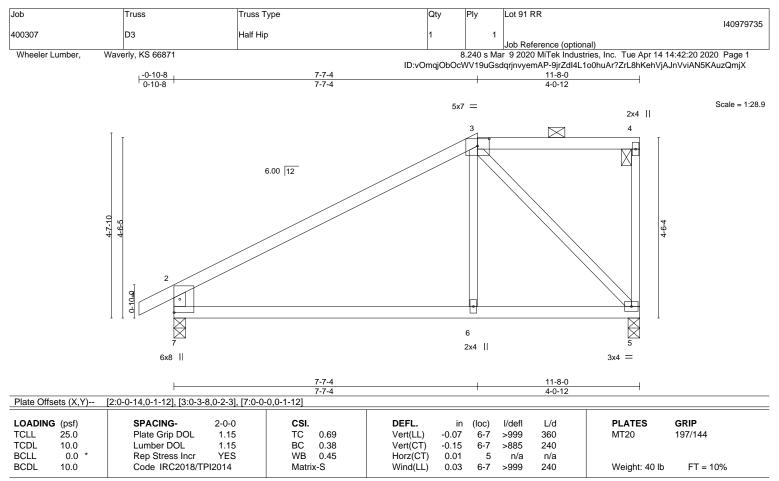
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 7 and 62 lb uplift at joint 5.

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.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 **ANSUTPIT Quality Criteria**, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 5=0-3-8, 7=0-3-8 Max Horz 7=183(LC 5) Max Uplift 5=-90(LC 5), 7=-92(LC 8) Max Grav 5=511(LC 1), 7=588(LC 1)

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

2-3=-538/61, 2-7=-532/149 TOP CHORD

BOT CHORD 6-7=-93/373. 5-6=-95/369 WEBS 3-6=0/283, 3-5=-540/107

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

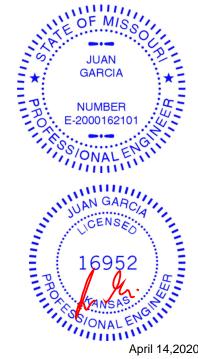
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 5 and 92 lb uplift at joint 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.



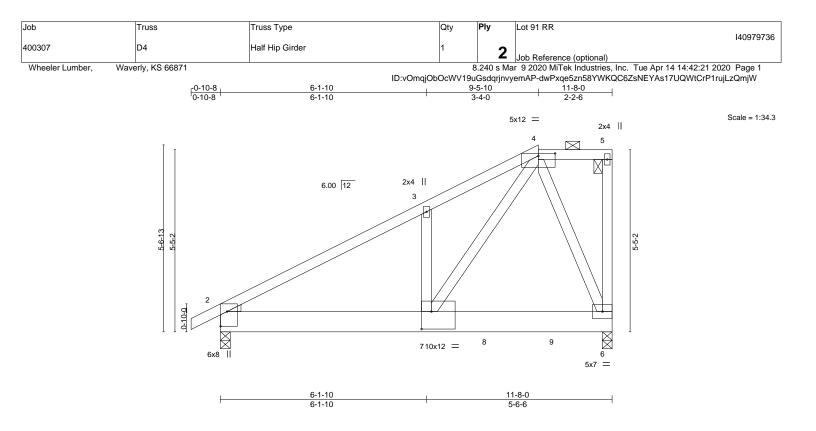
Structural wood sheathing directly applied or 4-11-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

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

April 14,2020

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| Plate Offsets (X,Y)  | [2:Edge,0-2-5], [2:0-1-3,0-5-11], [2:0-0-9   | 9,0-1-3], [4:0-6-0,0-0-15],  | [7:0-3-8,0-6-4]   |   |                          |   |                                    |
|--|--|--|---|---|--------------------------|---|------------------------------------|
| LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0                                       | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014   | CSI.<br>TC 0.64<br>BC 0.45<br>WB 0.83<br>Matrix-S  | DEFL.         in           Vert(LL)         -0.08           Vert(CT)         -0.14           Horz(CT)         0.07           Wind(LL)         0.08                          | 4 6-7 >98<br>1 6 n  | 9 360<br>5 240<br>/a n/a | PLATES<br>MT20<br>Weight: 146 lb          | <b>GRIP</b><br>197/144<br>FT = 10% |
| BOT CHORD 2x8 SF<br>WEBS 2x4 SF<br>WEDGE<br>Left: 2x3 SPF No.2<br>REACTIONS. (siz:<br>Max H<br>Max U<br>Max G<br>FORCES. (lb) - Max.<br>TOP CHORD 2-3=:<br>BOT CHORD 2-7=: | PF No.2<br>P 2400F 2.0E<br>PF No.2<br>e) 6=0-3-8 (req. 0-4-5), 2=0-3-8<br>lorz 2=208(LC 28)<br>lplift 6=-448(LC 8), 2=-315(LC 8)<br>Brav 6=5465(LC 1), 2=3186(LC 1)<br>Comp./Max. Ten All forces 250 (lb) or<br>-6056/523, 3-4=-5766/615<br>-482/5147, 6-7=-179/1411<br>-259/473, 4-7=-689/6774, 4-6=-3612/366   | ·  | BRACING-<br>TOP CHORD<br>BOT CHORD<br>UNN GAA<br>CENS<br>1695   | except end<br>Rigid ceiling   | verticals, and 2-0       | GA<br>PP NUI                              | x.): 4-5.                          |
| WARNING - Verify<br>Design valid for use o<br>a truss system. Befor<br>building design. Brac<br>is always required for<br>fabrication, storage, d                          | r design parameters and READ NOTES ON THIS A<br>only with MiTek® connectors. This design is based e<br>use, the building designer must verify the applicat<br>sing indicated is to prevent buckling of individual trus<br>stability and to prevent collapse with possible persu<br>lelivery, erection and bracing of trusses and truss sy<br>available from Truss Plate Institute, 218 N. Lee Stro | only upon parameters shown, an<br>pility of design parameters and p<br>ss web and/or chord members o<br>onal injury and property damage<br>stems, see <b>ANS/TP</b> 11 | Id is for an individual building c<br>oroperly incorporate this design<br>nly. Additional temporary and<br>b. For general guidance regard<br>I Quality Criteria, DSB-89 and | component, not<br>i into the overall<br>permanent bracing<br>ling the | ]                        | MiTek<br>16023 Swingle<br>Chesterfield, N | y Ridge Rd<br>IO 63017             |

| Job             | Truss             | Truss Type      | Qty | Ply        | Lot 91 RR   |
|-----------------|-------------------|-----------------|-----|------------|---|
|                 |                   |                 |     |            | 140979736   |
| 400307          | D4                | Half Hip Girder | 1   | 2          |   |
|                 |                   |                 |     | -          | Job Reference (optional)  |
| Wheeler Lumber, | Waverly, KS 66871 |                 |     | 3.240 s Ma | r 9 2020 MiTek Industries, Inc. Tue Apr 14 14:42:21 2020 Page 2 |

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NOTES-

Provide the second together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

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

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

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

- 3) Unbalanced roof live loads have been considered for this design.
- 4) 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
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) \* 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.

- 8) WARNING: Required bearing size at joint(s) 6 greater than input bearing size.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 448 lb uplift at joint 6 and 315 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3671 lb down and 372 lb up at 6-1-10, and 1944 lb down and 117 lb up at 8-0-0, and 1940 lb down and 118 lb up at 10-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

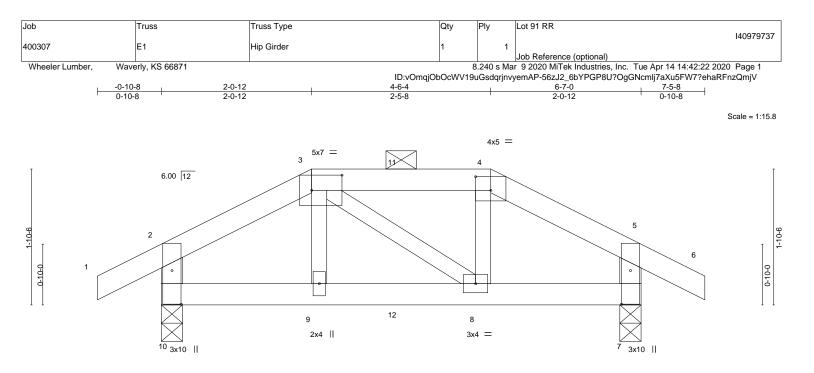
# LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-5=-70, 2-6=-20 Concentrated Loads (lb)

Vert: 7=-3671(B) 8=-1944(B) 9=-1940(B)





|                      | <u> </u>                   | 2-0-12<br>2-0-12 |                       | <u>4-6-4</u><br>2-5-8 |         |           | 6-7-0<br>2-0-12 |               |          |
|----------------------|----------------------------|------------------|-----------------------|-----------------------|---------|-----------|-----------------|---------------|----------|
| Plate Offsets (X,Y)- | [3:0-5-0,0-2-8], [4:0-2-8, |                  | ,0-1-8], [10:0-5-9,0- |                       |         |           |                 |               |          |
| LOADING (psf)        | SPACING-                   | 2-0-0            | CSI.                  | DEFL.                 | in (lo  | oc) I/def | L/d             | PLATES        | GRIP     |
| TCLL 25.0            | Plate Grip DOL             | 1.15             | TC 0.20               | Vert(LL)              | -0.01 8 | 3-9 >999  | 360             | MT20          | 197/144  |
| TCDL 10.0            | Lumber DOL                 | 1.15             | BC 0.17               | Vert(CT)              | -0.02 8 | 3-9 >999  | 240             |               |          |
| BCLL 0.0 *           | Rep Stress Incr            | NO               | WB 0.02               | Horz(CT)              | 0.00    | 7 n/a     | ı n/a           |               |          |
| BCDL 10.0            | Code IRC2018/T             | PI2014           | Matrix-S              | Wind(LL)              | 0.01 8  | 3-9 >999  | 240             | Weight: 23 lb | FT = 10% |

BRACING-

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=-42(LC 6) Max Uplift 10=-113(LC 8), 7=-113(LC 9) Max Grav 10=351(LC 1), 7=351(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-290/117, 4-5=-290/116, 2-10=-294/112, 5-7=-294/112

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 10 and 113 lb uplift at joint 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.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 92 lb down and 109 lb up at 2-0-12, and 56 lb down and 36 lb up at 3-3-8, and 92 lb down and 109 lb up at 4-6-4 on top chord, and 14 lb down and 5 lb up at 2-0-12, and 8 lb down and 1 lb up at 3-3-8, and 14 lb down and 5 lb up at 4-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20
  - Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-5=-70, 7-10=-20 Concentrated Loads (Ib) Vert: 9=3(F) 8=3(F) 12=1(F)

JUAN GARCIA NUMBER E-2000162101 JUAN GARCIA ICENSEO 16952 BOT GANSAS ICENSEO ANNSAS

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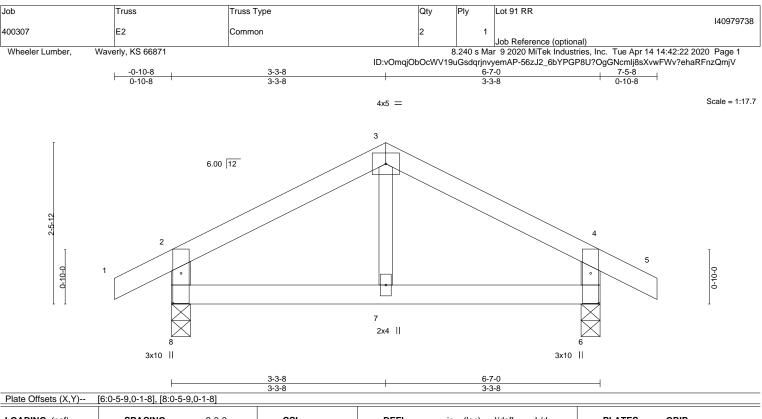
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

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



Mitek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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| LOADING (psf) | <b>SPACING-</b> 2-0-0 | CSI.     | DEFL.    | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|---------------|-----------------------|----------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL 25.0     | Plate Grip DOL 1.15   | TC 0.19  | Vert(LL) | -0.01 | 7     | >999   | 360 | MT20          | 197/144  |
| TCDL 10.0     | Lumber DOL 1.15       | BC 0.12  | Vert(CT) | -0.01 | 7     | >999   | 240 |               |          |
| BCLL 0.0 *    | Rep Stress Incr YES   | WB 0.03  | Horz(CT) | 0.00  | 6     | n/a    | n/a |               |          |
| BCDL 10.0     | Code IRC2018/TPI2014  | Matrix-R | Wind(LL) | 0.00  | 7     | >999   | 240 | Weight: 21 lb | FT = 10% |
| LUMBER-       |                       |          | BRACING- |       |       |        |     | 1             |          |

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

TOP CHORD BOT CHORD

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

REACTIONS. (size) 8=0-3-8, 6=0-3-8 Max Horz 8=50(LC 7) Max Uplift 8=-58(LC 8), 6=-58(LC 9) Max Grav 8=355(LC 1), 6=355(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-3=-271/48, 3-4=-271/47, 2-8=-305/80, 4-6=-305/80 TOP 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) 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 58 lb uplift at joint 8 and 58 lb uplift at ioint 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.



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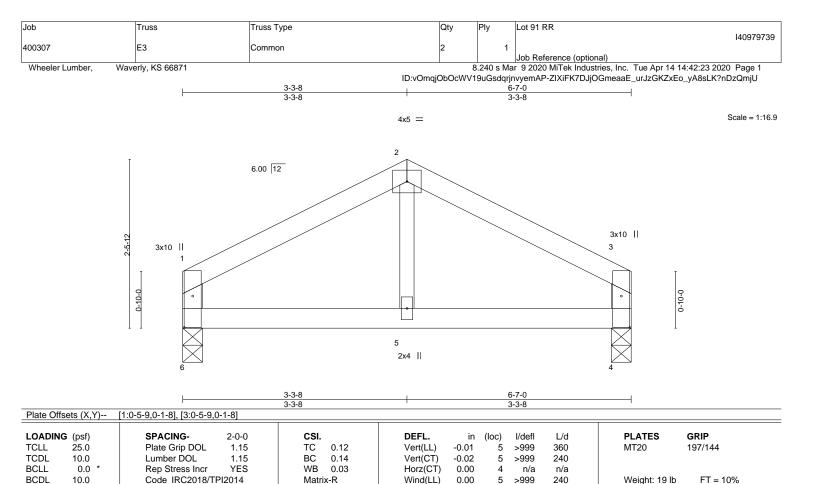
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April 14,2020

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BRACING-

TOP CHORD

BOT CHORD

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

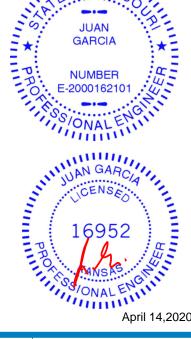
TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 \*Except\* 2-5: 2x3 SPF No.2

REACTIONS. (size) 6=0-3-8, 4=0-3-8 Max Horz 6=43(LC 7) Max Uplift 6=-34(LC 8), 4=-34(LC 9) Max Grav 6=283(LC 1), 4=283(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-283/48, 2-3=-283/48

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 4)
- will fit between the bottom chord and any other members. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 6 and 34 lb uplift at ioint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



11111 MIS

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

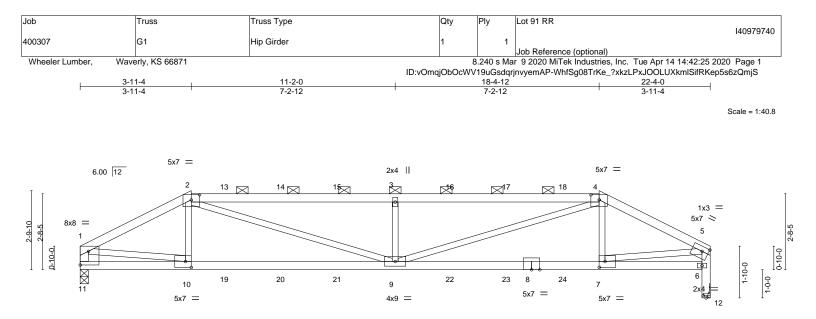
Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.

April 14,2020

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VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY SUPPORTS (BEARINGS).

| <b> </b>   | 3-11-4<br>3-11-4  | <u>11-2-0</u><br>7-2-12   |  | <u>18-4-12</u><br>7-2-12   | <u>22-4-0</u><br>3-11-4  |
|--|---|---|--|--|--|
| Plate Offsets (X,Y)  | [1:Edge,0-5-13], [2:0-3-8,0-2-3], [4:0-3-8  |   | [7:0-2-8,0-2-8], [10:0-2-8   |  |  |
| LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0 *           BCDL         10.0   | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr NO<br>Code IRC2018/TPI2014  | CSI.<br>TC 0.86<br>BC 0.81<br>WB 0.67<br>Matrix-S   | DEFL. ir<br>Vert(LL) -0.18<br>Vert(CT) -0.36<br>Horz(CT) 0.07<br>Wind(LL) 0.17   | 9 >999 360<br>7-9 >740 240<br>12 n/a n/a   | PLATES         GRIP           MT20         197/144           Weight: 77 lb         FT = 10%                  |
| 2-4: 2x<br>BOT CHORD 2x4 SP<br>WEBS 2x3 SP   | PF No.2 *Except*<br>4 SPF 2400F 2.0E<br>PF No.2<br>PF No.2 *Except*<br>12: 2x4 SPF No.2   |   | BRACING-<br>TOP CHORD<br>BOT CHORD   |  | p directly applied or 3-6-15 oc purlins,<br>2-0-0 oc purlins (3-3-12 max.): 2-4.<br>ed or 7-11-2 oc bracing. |
| Max H<br>Max U   | a) 11=0-3-8, 12=Mechanical<br>orz 11=79(LC 7)<br>plift 11=-323(LC 5), 12=-323(LC 4)<br>rav 11=1489(LC 1), 12=1489(LC 1)   |   |  |  | OF MISS  |
| TOP CHORD 1-2=-<br>6-12=<br>BOT CHORD 9-10=  | Comp./Max. Ten All forces 250 (lb) or<br>2413/564, 2-3=-3679/931, 3-4=-3679/93<br>1489/323, 5-6=-1464/326<br>538/2121, 7-9=-509/2121<br>453/1689, 3-9=-814/417, 4-9=-453/1689   | 31, 4-5 <b>=-2</b> 413/558, 1-11 <b>=</b> ∙   | 1465/327,  |  | JUAN<br>GARCIA   |
| <ol> <li>Wind: ASCE 7-16; V<br/>MWFRS (envelope)<br/>grip DOL=1.60</li> <li>Provide adequate dr<br/>4) This truss has been<br/>will fit between the b</li> <li>Refer to girder(s) for<br/>7) Provide mechanical<br/>at joint 12.</li> <li>This truss is designe<br/>referenced standard</li> </ol> |   | ph; TCDL=6.0psf; BCDL=<br>exposed ; end vertical lef<br>e load nonconcurrent with<br>he bottom chord in all are<br>ng plate capable of withsta<br>onal Residential Code sec   | t and right exposed; Lur<br>any other live loads.<br>as where a rectangle 3-<br>Inding 323 lb uplift at join<br>tions R502.11.1 and R8                                 | ber DOL=1.60 plate<br>6-0 tall by 2-0-0 wide<br>at 11 and 323 lb uplift<br>02.10.2 and                               | P. NUMBER<br>E-2000162101  |
| 10) Hanger(s) or other<br>3-11-4, 86 lb down<br>up at 11-2-0, 86 lb<br>78 lb down and 76<br>7-2-0, 30 lb down a<br>lb down and 77 lb u   | resentation does not depict the size or the<br>connection device(s) shall be provided and 76 lb up at 5-2-0, 86 lb down and 76<br>down and 76 lb up at 13-2-0, 86 lb down<br>lb up at 18-4-12 on top chord, and 215<br>at 9-2-0, 30 lb down at 11-2-0, 30 lb do<br>up at 18-4-0 on bottom chord. The desis<br>(S) section, loads applied to the face of<br>the dord | sufficient to support conce<br>76 lb up at 7-2-0, 86 lb do<br>vn and 76 lb up at 15-2-0<br>lb down and 77 lb up at 3<br>wn at 13-2-0, 30 lb down<br>gn/selection of such conr | entrated load(s) 78 lb doo<br>wn and 76 lb up at 9-2-<br>, and 86 lb down and 76<br>8-11-4, 30 lb down at 5-<br>at 15-2-0, and 30 lb doo<br>ection device(s) is the re | wn and 76 lb up at<br>0, 86 lb down and 76 lb<br>lb up at 17-2-0, and<br>2-0, 30 lb down at<br>wn at 17-2-0, and 215 | 16952<br>April 14,2020   |

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| dop                  | Truss          | Truss Type | Qty | Ply       | Lot 91 RR   |
|----------------------|----------------|------------|-----|-----------|---|
|                      |                |            |     |           | 140979740   |
| 400307               | G1             | Hip Girder | 1   | 1         |   |
|                      |                |            |     |           | Job Reference (optional)  |
| Wheeler Lumber, Wave | erly, KS 66871 |            | 8   | .240 s Ma | r 9 2020 MiTek Industries, Inc. Tue Apr 14 14:42:25 2020 Page 2 |

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Apr 14 14:42:25 2020 Page 2 ID:vOmqjObOcWV19uGsdqrjnvyemAP-WhfSg08TrKe\_?xkzLPxJOOLUXkmlSifRKep5s6zQmjS

# LOAD CASE(S) Standard

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

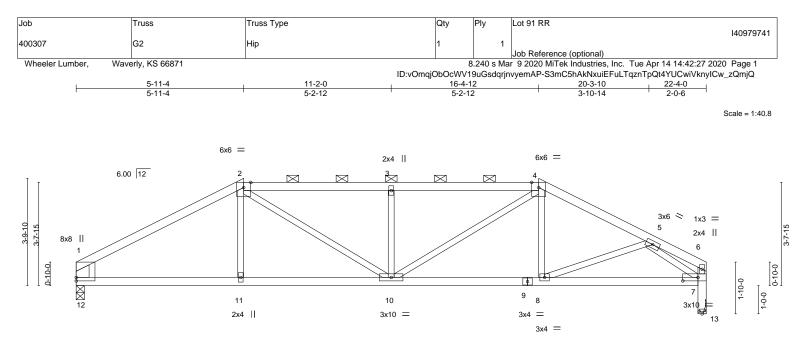
Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 4-5=-70, 6-11=-20

Concentrated Loads (lb)

Vert: 2=-45(F) 10=-215(F) 9=-24(F) 3=-45(F) 7=-215(F) 13=-45(F) 14=-45(F) 15=-45(F) 16=-45(F) 17=-45(F) 18=-45(F) 19=-24(F) 20=-24(F) 21=-24(F) 22=-24(F) 23=-24(F) 24=-24(F) 24

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## VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY SUPPORTS (BEARINGS).

| I  | 5-11-4<br>5-11-4   | <u>11-2-0</u><br>5-2-12  | <u>16-4-12</u><br>5-2-12   | 1  | <u>22-4-0</u><br>5-11-4         |                                    |
|--|--|--|--|--|---------------------------------|------------------------------------|
| Plate Offsets (X,Y)  | [1:0-1-6,0-2-12], [7:0-6-8,0-1-8], [12:0-0   |  |  |  |                                 |                                    |
| 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.<br>TC 0.67<br>BC 0.69<br>WB 0.27<br>Matrix-S                                  | DEFL.         in         (loc           Vert(LL)         -0.15         10-1           Vert(CT)         -0.28         10-1           Horz(CT)         0.06         1           Wind(LL)         0.07         10-1 | 1 >999 360<br>1 >946 240<br>3 n/a n/a  | PLATES<br>MT20<br>Weight: 78 lb | <b>GRIP</b><br>197/144<br>FT = 10% |
| 9-12: 2<br>WEBS 2x3 SP   | PF No.2<br>PF No.2 *Except*<br>x4 SPF 2100F 1.8E<br>PF No.2 *Except*<br>x6 SP 2400F 2.0E, 6-13: 2x4 SPF No.2   | -  | exce   | ctural wood sheathing di<br>apt end verticals, and 2-0<br>d ceiling directly applied | -0 oc purlins (4-1-9 m          |                                    |
| Max H  | e) 12=0-3-8, 13=Mechanical<br>orz 12=-47(LC 6)<br>rav 12=988(LC 1), 13=988(LC 1)   |  |  |  |                                 |                                    |
| TOP CHORD 1-2=-<br>BOT CHORD 11-12   | Comp./Max. Ten All forces 250 (lb) o<br>1445/22, 2-3=-1688/43, 3-4=-1688/43,<br>2=-9/1196, 10-11=-11/1197, 8-10=0/126<br>58/667, 3-10=-468/101, 4-10=-56/582   | 4-5=-1462/21, 1-12=-842/2<br>0, 7-8=-11/1087                                       | 26, 7-13=-988/0  |  |                                 | JUAN<br>ARCIA                      |
| <ol> <li>Wind: ASCE 7-16; V<br/>MWFRS (envelope);</li> <li>Provide adequate dr</li> <li>This truss has been</li> </ol>               | a loads have been considered for this de<br>fult=115mph (3-second gust) Vasd=91n<br>; cantilever left and right exposed ; end<br>rainage to prevent water ponding.<br>designed for a 10.0 psf bottom chord liv<br>n designed for a live load of 20.0psf on | ph; TCDL=6.0psf; BCDL=<br>vertical left exposed; Luml<br>e load nonconcurrent with | per DOL=1.60 plate grip DOL=<br>any other live loads.  | =1.60  | PROFILE-20                      | JMBER<br>00162101                  |

sigr will fit between the bottom chord and any other members.

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

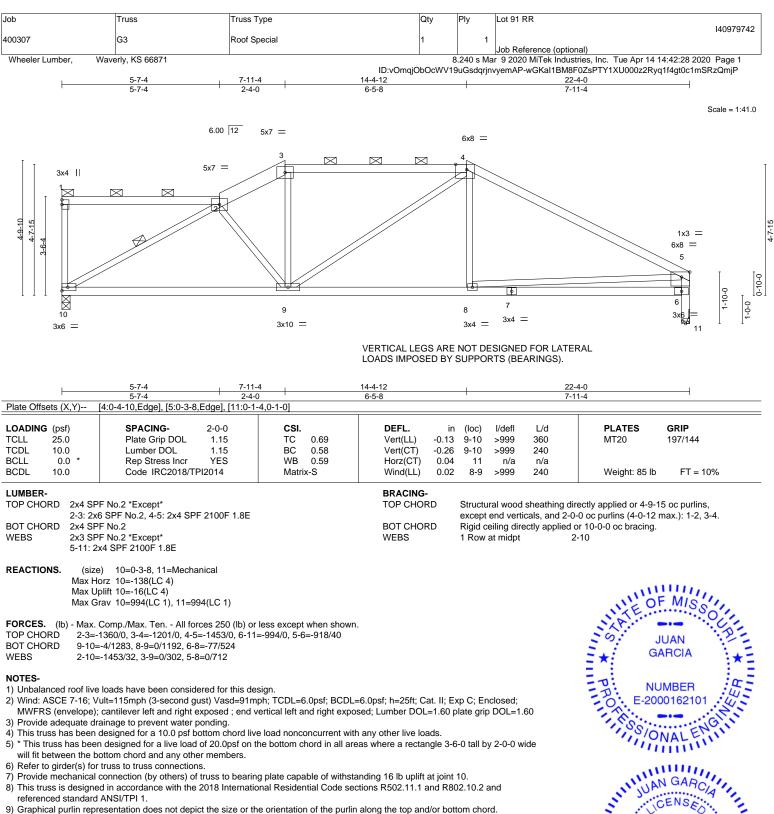
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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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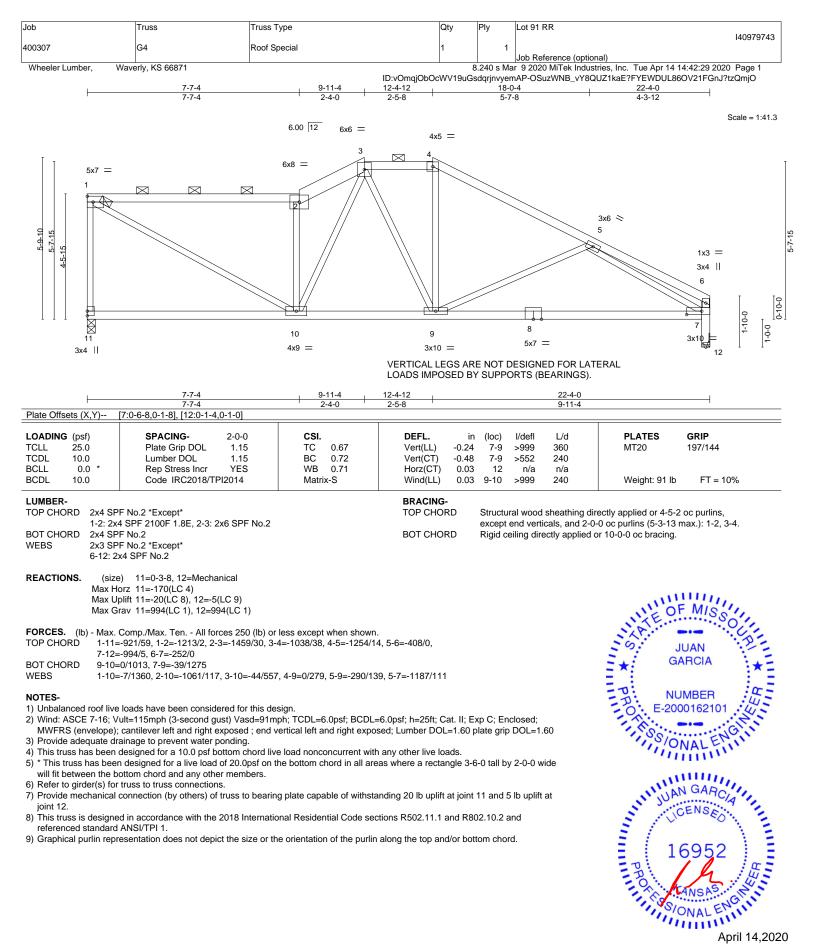


16952 ONAL ENGINE

April 14,2020

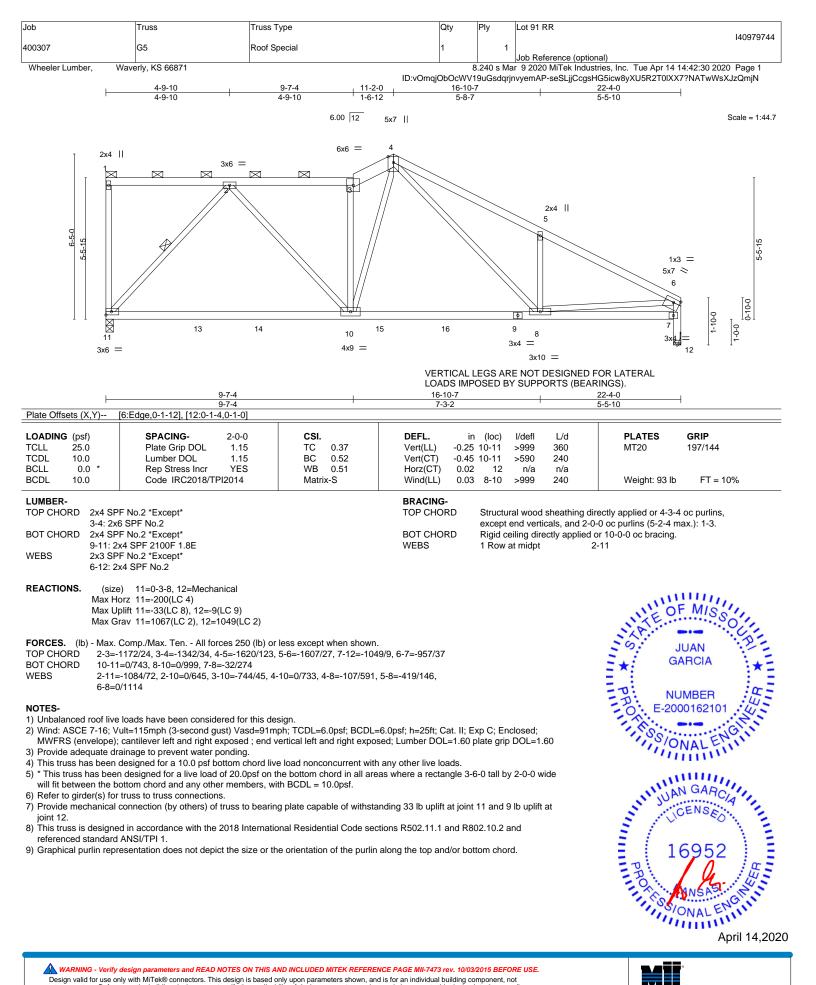
🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 **ANSUTPIT Quality Criteria**, **DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





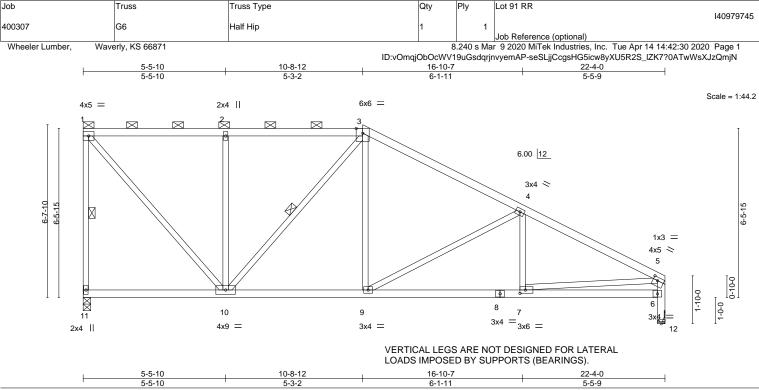
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| Plate Offsets (X,Y)  | [5:0-2-0,0-1-8], [7:0-2-8,0-1-8], [12:0-1-4   | 4,0-1-0]  |  |                |  |                                   |   |                                     |          |
|--|---|---|--|----------------|--|-----------------------------------|---|-------------------------------------|----------|
| LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014   | CSI.<br>TC 0.43<br>BC 0.40<br>WB 0.54<br>Matrix-S | Vert(CT) -<br>Horz(CT)                     | 0.12 7<br>0.02 | ic) l/defl<br>7-9 >999<br>7-9 >999<br>12 n/a<br>7-9 >999 | L/d<br>360<br>240<br>n/a<br>240   | PLATES<br>MT20<br>Weight: 93 I  | <b>GRIP</b><br>197/144<br>b FT = 10 | %        |
| BOT CHORD 2x4 SF<br>WEBS 2x3 SF  | PF No.2<br>PF No.2<br>PF No.2 *Except*<br>2x4 SPF No.2  | · · · · ·   | BRACING-<br>TOP CHORD<br>BOT CHORD<br>WEBS | exc<br>Rigi    | ept end verti  | cals, and 2-0-<br>ectly applied c | ectly applied or 4-4<br>-0 oc purlins (6-0-0<br>or 10-0-0 oc bracing<br>-11, 3-10 | max.): 1-3.                         |          |
| Max H<br>Max U   | e) 11=0-3-8, 12=Mechanical<br>lorz 11=-223(LC 4)<br>Jplift 11=-53(LC 4), 12=-10(LC 9)<br>Grav 11=994(LC 1), 12=994(LC 1)                                    |   |  |                |  |                                   |   |                                     | <i>.</i> |
| TOP CHORD 1-11=<br>5-6=-<br>BOT CHORD 9-10=  | Comp./Max. Ten All forces 250 (lb) or<br>=-946/74, 1-2=-691/37, 2-3=-693/38, 3-4<br>-937/38<br>=0/899, 7-9=0/1313<br>=-58/1047, 2-10=-446/108, 3-10=-324/35 | =-1111/40, 4-5=-1539/32, 6                        |  |                |  |                                   | IN ATEL   | JUAN<br>GARCIA                      | 0UR! *=  |
|  | e loads have been considered for this de<br>/ult=115mph (3-second gust) Vasd=91m  |   | .0psf: h=25ft: Cat.                        | II: Exp C:     | : Enclosed:  |                                   |   | IUMBER<br>000162101                 | EP       |

3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 2) MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.

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

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

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 11 and 10 lb uplift at joint 12.

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.

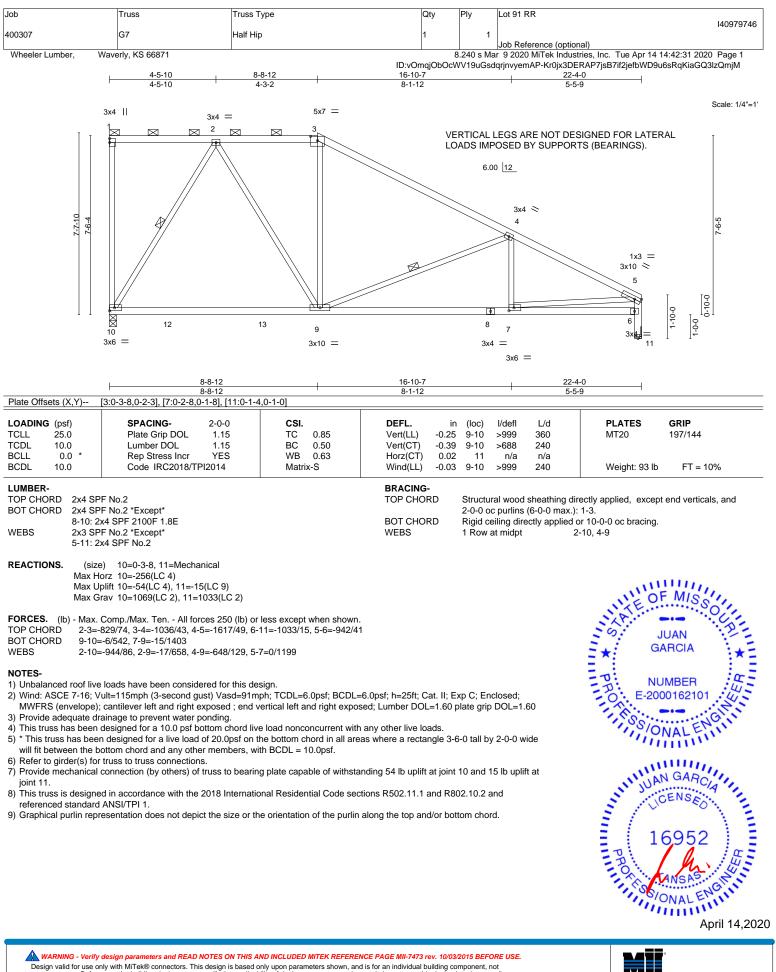
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 14,2020



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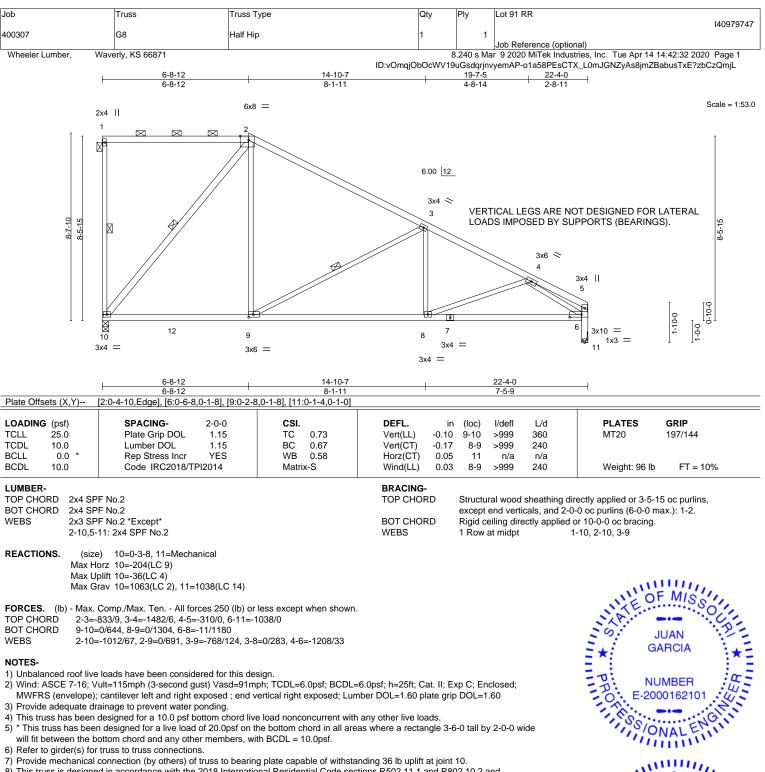


referenced standard ANSI/TPI 1.

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

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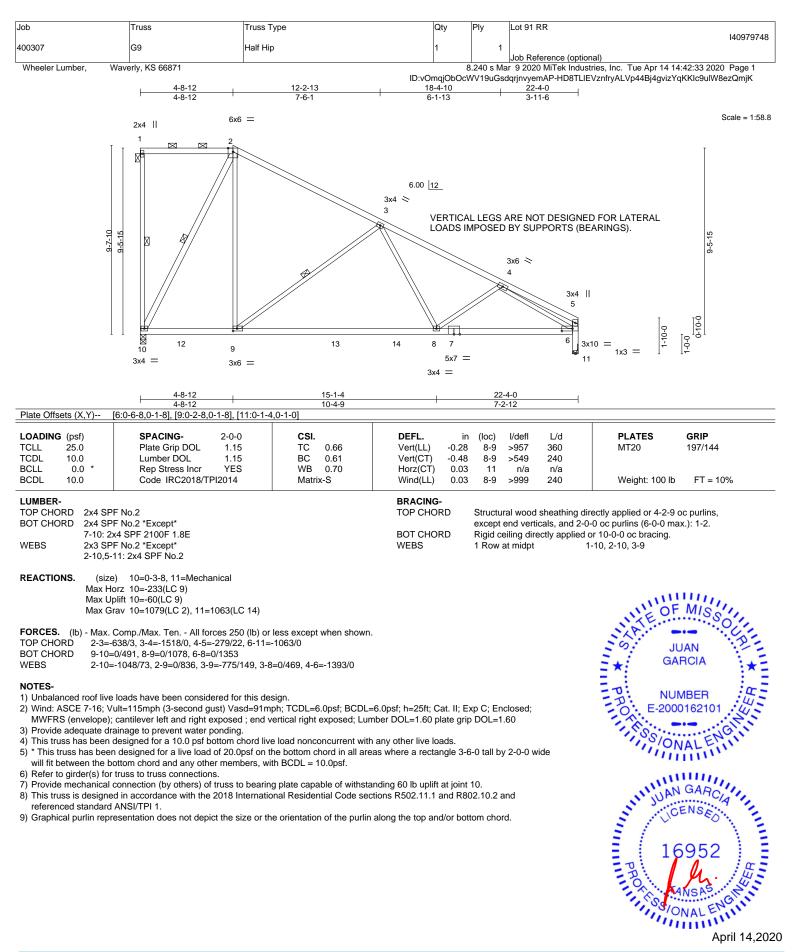
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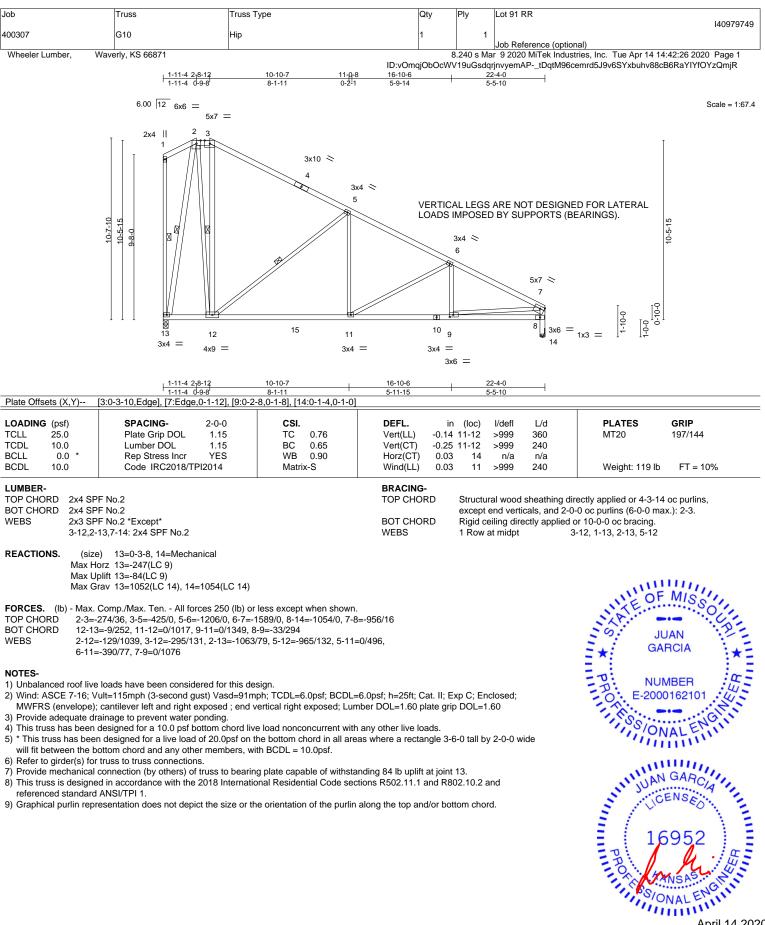


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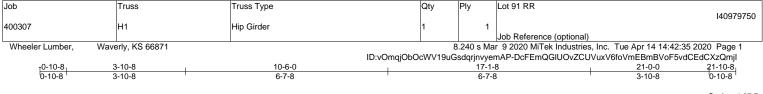


9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

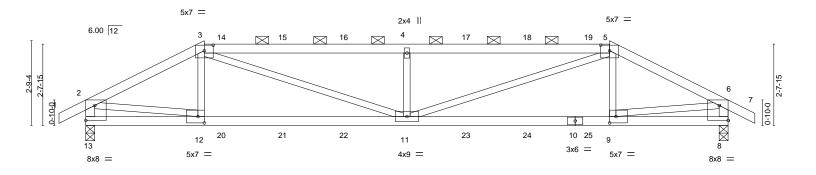


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Scale = 1:37.7



|  | 3-10-8  | <u>10-6-0</u><br>6-7-8  |  |  | <u>17-1</u><br>6-7-                                  |   |                                 | 21-0-0   |                                    |                   |
|--|---|---|--|--|--|---|---------------------------------|--|------------------------------------|-------------------|
| Plate Offsets (X,Y)  | [3:0-3-8,0-2-3], [5:0-3-8,0-2-3], [8:Edge   |   | [9:0-2-8,0-2-8], [12:  | :0-2-8,0   |  | -   | ,0-0-0], [13:E                  |  |                                    |                   |
| LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0                                     | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014  | CSI.<br>TC 0.72<br>BC 0.72<br>WB 0.61<br>Matrix-S   |  | -0.15  | (loc)<br>11<br>9-11<br>8<br>11                       | l/defl<br>>999<br>>857<br>n/a<br>>999                       | L/d<br>360<br>240<br>n/a<br>240 | <b>PLATES</b><br>MT20<br>Weight: 74 lb   | <b>GRIP</b><br>197/144<br>FT = 10% |                   |
| BOT CHORD 2x4 SF<br>WEBS 2x3 SF  | 4 SPF 2100F 1.8E  | -   | BRACING-<br>TOP CHORI<br>BOT CHORI   |  | except   | end vertic  | als, and 2-0-                   | ectly applied or 3-8-1<br>0 oc purlins (3-6-5 m<br>r 8-4-7 oc bracing.   |                                    |                   |
| Max H<br>Max U   | e) 13=0-3-8, 8=0-3-8<br>orz 13=53(LC 7)<br>plift 13=-334(LC 8), 8=-334(LC 9)<br>rav 13=1483(LC 1), 8=1483(LC 1)   |   |  |  |  |   |                                 | IN EO  | FMISS                              | 2                 |
| TOP CHORD 2-3=-<br>6-8=-   | Comp./Max. Ten All forces 250 (lb) o<br>2248/544, 3-4=-3282/846, 4-5=-3282/8<br>1454/340<br>2=-485/1965, 9-11=-456/1965   |   |  |  |  |   |                                 |  |                                    | <u>p</u>          |
|  | =-389/1435, 4-11=-742/379, 5-11=-389/   | 1435, 2-12=-442/1782, 6-  | 9=-445/1782  |  |  |   |                                 | ∃1   |                                    | Ε <sup>Λ</sup> Ξ. |
| <ul> <li>2) Wind: ASCE 7-16; W<br/>MWFRS (envelope)<br/>grip DOL=1.60</li> <li>3) Provide adequate di<br/>4) This truss has been</li> </ul>                              | e loads have been considered for this de<br>/ult=115mph (3-second gust) Vasd=91m<br>gable end zone; cantilever left and righ<br>rainage to prevent water ponding.<br>designed for a 10.0 psf bottom chord liv   | nph; TCDL=6.0psf; BCDL<br>t exposed ; end vertical le<br>re load nonconcurrent with   | t and right exposed  | d; Lumb<br>ds.                                     | ber DOL  | .=1.60 pla  |                                 |  | NAL ENG                            | IN FER            |
| <ul><li>will fit between the b</li><li>6) Provide mechanical<br/>at joint 8.</li><li>7) This truss is designed</li></ul>   | n designed for a live load of 20.0psf on<br>oottom chord and any other members.<br>connection (by others) of truss to bearin<br>ed in accordance with the 2018 Internati  | ng plate capable of withsta   | nding 334 lb uplift  | at joint   | 13 and   | 334 lb up   |                                 | The second secon | N GARCIA                           | inn.              |
| <ol> <li>9) Hanger(s) or other c<br/>3-10-8, 82 lb down a<br/>up at 10-6-0, 85 lb d<br/>lb down and 75 lb u<br/>lb down at 8-6-0, 25<br/>and 76 lb up at 17-0</li> </ol> | ANSI/TPI 1.<br>resentation does not depict the size or the<br>connection device(s) shall be provided s<br>and 75 lb up at 4-6-0, 85 lb down and 75<br>down and 75 lb up at 12-6-0, 85 lb down<br>of at 17-1-8 on top chord, and 209 lb dow<br>b lb down at 10-6-0, 29 lb down at 12-6<br>0-12 on bottom chord. The design/selec<br>5(S) section, loads applied to the face of | ufficient to support concert<br>5 lb up at 6-6-0, 85 lb down<br>n and 75 lb up at 14-6-0,<br>wn and 76 lb up at 3-10-6<br>-0, 29 lb down at 14-6-0,<br>ction of such connection d | trated load(s) 77 lb<br>vn and 75 lb up at<br>and 82 lb down and<br>5, 29 lb down at 4-6<br>and 29 lb down at<br>evice(s) is the respo | o down<br>8-6-0, 8<br>d 75 lb<br>6-0, 29<br>16-6-0 | and 75<br>85 lb do<br>up at 1<br>lb dowr<br>, and 20 | lb up at<br>wn and 7<br>6-6-0, and<br>at 6-6-0<br>09 lb dow | d 77<br>, 29                    | 1<br>PROFILE   | 6952<br>ANGAS                      | TI EEA            |

LOAD CASE(S) Standard Continued on page 2

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| russ        | Truss Type | Qty          | Ply            | Lot 91 RR   |
|-------------|------------|--------------|----------------|---|
|             |            |              |                | 140979750   |
| 1           | Hip Girder | 1            | 1              |   |
|             |            |              |                | Job Reference (optional)  |
| y, KS 66871 |            | 8            | .240 s Ma      | r 9 2020 MiTek Industries, Inc. Tue Apr 14 14:42:35 2020 Page 2 |
|             | 1          | 1 Hip Girder | 1 Hip Girder 1 | 1 Hip Girder 1 1  |

ID:vOmqjObOcWV19uGsdqrjnvyemAP-DcFEmQGIUOvZCUVuxV6foVmEBmBVoF5vdCEdCXzQmjl

LOAD CASE(S) Standard

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

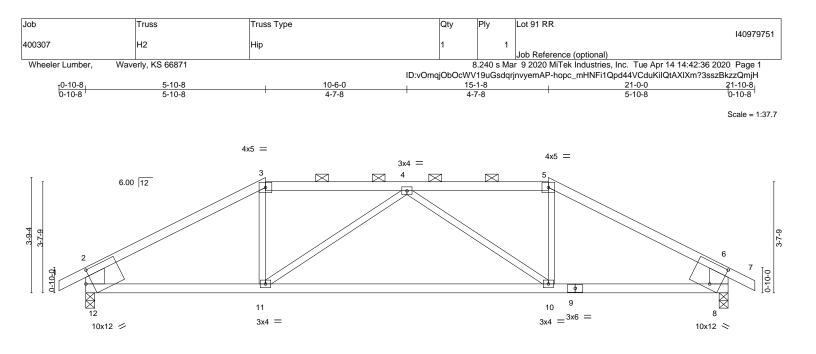
Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 8-13=-20

Concentrated Loads (lb)

Vert: 3=-42(B) 5=-42(B) 12=-209(B) 11=-23(B) 4=-42(B) 9=-209(B) 14=-42(B) 15=-42(B) 16=-42(B) 17=-42(B) 18=-42(B) 19=-42(B) 20=-23(B) 21=-23(B) 22=-23(B) 23=-23(B) 24=-23(B) 25=-23(B) 25

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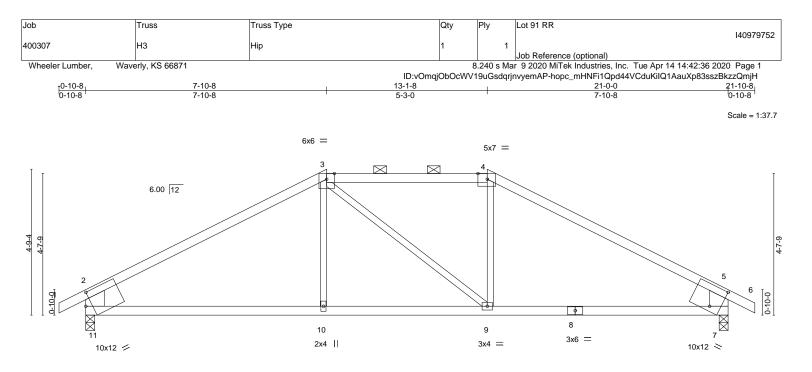


|  | 5-10-8<br>5-10-8   |   | <u>15-1-8</u><br>9-3-0             |  |                   | 21-0-0<br>5-10-8   |                        |
|--|--|---|------------------------------------|--|-------------------|--|------------------------|
| Plate Offsets (X,Y)  | [2:0-4-1,0-0-0], [6:0-4-1,0-0-0], [8:0-3-4,  | 0-1-10] [8:0-4-1 0-8-2] [1                    |                                    | 2-7 0-4-14]  |                   | 5-10-6   |                        |
|  |  | <u>                                      </u> |                                    | 27,0111  |                   |  |                        |
| LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES                                    | CSI.<br>TC 0.66<br>BC 0.72<br>WB 0.38         | Vert(LL) -0.2                      | in (loc) l/defl<br>5 10-11 >971<br>7 10-11 >428<br>4 8 n/a | 360<br>240        | PLATES<br>MT20   | <b>GRIP</b><br>197/144 |
| BCDL 10.0  | Code IRC2018/TPI2014   | Matrix-S                                      | Wind(LL) 0.1                       | 2 10-11 >999   | 240               | Weight: 69 lb  | FT = 10%               |
| 3-5: 2<br>BOT CHORD 2x4 S<br>WEBS 2x3 S  | SPF 2100F 1.8E *Except*<br>2x4 SPF No.2<br>SPF No.2<br>SPF No.2 *Except*<br>6-8: 2x8 SP DSS                        |   | BRACING-<br>TOP CHORD<br>BOT CHORD | except end ve  | erticals, and 2-0 | rectly applied or 5-1-1<br>-0 oc purlins (5-3-6 m<br>or 10-0-0 oc bracing. |                        |
| Max<br>Max   | ze) 12=0-3-8, 8=0-3-8<br>Horz 12=-68(LC 6)<br>Uplift 12=-99(LC 8), 8=-99(LC 9)<br>Grav 12=1000(LC 1), 8=1000(LC 1) |   |                                    |  |                   | 11110  | FMISS                  |
| TOP CHORD 2-3=   | <. Comp./Max. Ten All forces 250 (lb) or<br>=-1359/130, 3-4=-1093/136, 4-5=-1093/13<br>=-924/129                   |   |                                    |  |                   |  | IUAN P                 |
| BOT CHORD 11-  | 12=-99/1101, 10-11=-188/1395, 8-10=-53<br>1=0/388, 4-11=-449/164, 4-10=-449/164,                                   |   |                                    |  |                   | * G/   | ARCIA                  |
| NOTES-   |  |   |                                    |  |                   | = D: NL  | IMBER :                |
| 1) Unbalanced roof liv   | ve loads have been considered for this de  | sign.   |                                    |  |                   | - O. E-200   | 00162101               |
|  | Vult=115mph (3-second gust) Vasd=91m<br>e) gable end zone; cantilever left and right                               |   |                                    |  |                   | ESS O  | NAL ENGLIT             |
|  | drainage to prevent water ponding.   |   |                                    |  |                   | 111  |                        |
|  | n designed for a 10.0 psf bottom chord liv   |   |                                    |  |                   | -  |                        |
|  | en designed for a live load of 20.0psf on t<br>bottom chord and any other members.                                 | ne bottom chord in all are                    | eas where a rectangle 3            | -6-0 tall by 2-0-0   | wide              |  |                        |
|  | al connection (by others) of truss to bearing  | g plate capable of withsta                    | anding 99 lb uplift at joir        | nt 12 and 99 lb u  | olift at          | ALL                                    | N GARCIA               |
| <ol> <li>This truss is design<br/>referenced standar</li> </ol>  |  |   |                                    |  |                   | and the second   | ENOED                  |
| 8) Graphical purlin rep  | presentation does not depict the size or th  | e orientation of the purlin                   | along the top and/or b             | ottom chord.   |                   | E ( 1)   | 6052                   |



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|  | 7-10-8  | ł   | <u>13-1-8</u><br>5-3-0                         |  |   | 21-0-0   |                                    |
|--|---|---|--|--|---|--|------------------------------------|
| Plate Offsets (X,Y)  | [2:0-4-1,0-0-0], [4:0-3-10,Edge], [5:0-4-   | 1,0-0-0], [7:0-3-4,0-1-10],                       |  | 8-4,0-1-10]  | , [11:0-2-7,0-4-14]                                       | 1.00   |                                    |
| LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014 | CSI.<br>TC 0.65<br>BC 0.52<br>WB 0.18<br>Matrix-S | Vert(LL) -0.0<br>Vert(CT) -0.1<br>Horz(CT) 0.0 | in (loc)<br>09 9-10<br>19 10-11<br>03 7<br>05 9-10 | l/defl L/d<br>>999 360<br>>999 240<br>n/a n/a<br>>999 240 | PLATES<br>MT20<br>Weight: 68 lb                      | <b>GRIP</b><br>197/144<br>FT = 10% |
|  | PF 2100F 1.8E *Except*<br>x4 SPF No.2   |   | BRACING-<br>TOP CHORD                          |  |   | irectly applied or 5-8-3<br>D-0 oc purlins (5-2-1 ma |                                    |

BOT CHORD

BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\* 2-11,5-7: 2x8 SP DSS

except end verticals, and 2-0-0 oc purlins (5-2-1 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-3-8, 7=0-3-8 Max Horz 11=81(LC 7) Max Uplift 11=-120(LC 8), 7=-120(LC 9) Max Grav 11=1000(LC 1), 7=1000(LC 1)

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

TOP CHORD 2-3=-1278/103, 3-4=-1013/151, 4-5=-1278/103, 2-11=-912/176, 5-7=-912/176

BOT CHORD 10-11=-50/1016, 9-10=-52/1013, 7-9=-6/1016

## NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

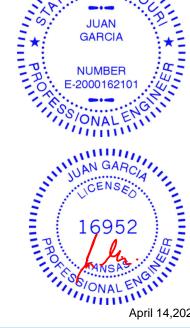
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 11 and 120 lb uplift at joint 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.



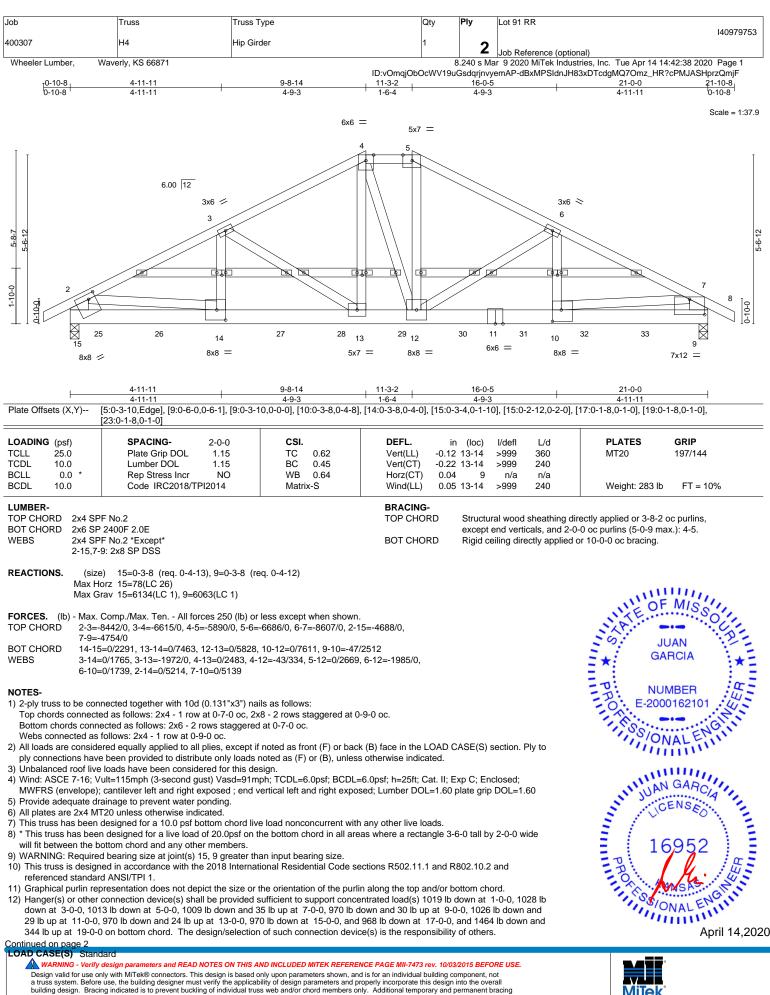
11111 MIS

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April 14,2020



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16023 Swingley Ridge Rd Chesterfield, MO 63017

| Job                 | Truss           | Truss Type | Qty | Ply        | Lot 91 RR   |
|---------------------|-----------------|------------|-----|------------|---|
|                     |                 |            |     |            | 140979753   |
| 400307              | H4              | Hip Girder | 1   | 2          |   |
|                     |                 |            |     | <b>_</b>   | Job Reference (optional)  |
| Wheeler Lumber, Way | verly, KS 66871 |            |     | 3.240 s Ma | r 9 2020 MiTek Industries, Inc. Tue Apr 14 14:42:38 2020 Page 2 |
|                     |                 |            |     |            |   |

ID:vOmqjObOcWV19uGsdqrjnvyemAP-dBxMPSIdnJH83xDTcdgMQ7Omz\_HR?cPMJASHprzQmjF

# LOAD CASE(S) Standard

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

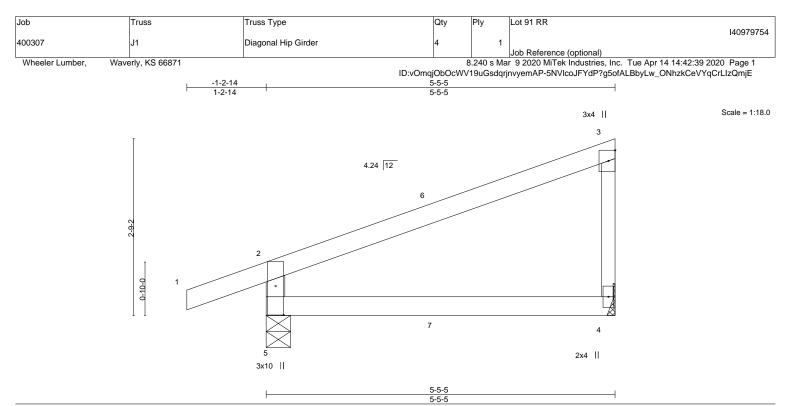
Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-7=-70, 7-8=-70, 9-15=-20

Concentrated Loads (lb)

Vert: 14=-974(F) 25=-971(F) 26=-970(F) 27=-970(F) 28=-970(F) 29=-970(F) 30=-970(F) 31=-970(F) 32=-968(F) 33=-1464(F)

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| Plate Offsets (X, | [5:0-5-7,0-1-8] |        |        |      |          |       |       |        |     |               |          |
|-------------------|-----------------|--------|--------|------|----------|-------|-------|--------|-----|---------------|----------|
| 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     | 0.39 | Vert(LL) | -0.03 | 4-5   | >999   | 360 | MT20          | 197/144  |
| TCDL 10.0         | Lumber DOL      | 1.15   | BC     | 0.24 | Vert(CT) | -0.06 | 4-5   | >999   | 240 |               |          |
| BCLL 0.0          | Rep Stress Incr | NO     | WB     | 0.00 | Horz(CT) | -0.00 | 4     | n/a    | n/a |               |          |
| BCDL 10.0         | Code IRC2018/T  | PI2014 | Matrix | (-R  | Wind(LL) | 0.01  | 4-5   | >999   | 240 | Weight: 17 lb | FT = 10% |
|                   |                 |        |        |      |          |       |       |        |     |               |          |

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

BRACING-TOP CHORD

BOT CHORD

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

REACTIONS. (size) 5=0-4-9, 4=Mechanical Max Horz 5=116(LC 5) Max Uplift 5=-99(LC 4), 4=-51(LC 8)

Max Grav 5=342(LC 1), 4=219(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-302/138

#### NOTES-

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

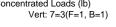
3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

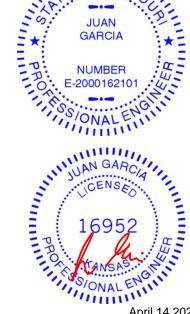
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 5 and 51 lb uplift at ioint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 36 lb up at 2-8-7, and 69 lb down and 36 lb up at 2-8-7 on top chord, and 4 lb down and 1 lb up at 2-8-7, and 4 lb down and 1 lb up at 2-8-7 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)





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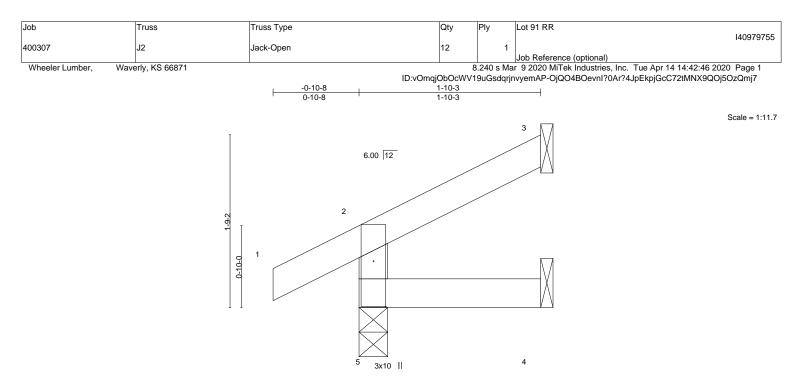
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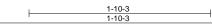
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April 14,2020



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| Plate Off | sets (X,Y) [ | 5:0-5-9,0-1-8]  |        |       |      | 1        |       |       |        |     |              |          |
|-----------|--------------|-----------------|--------|-------|------|----------|-------|-------|--------|-----|--------------|----------|
|           | 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   | 360 | MT20         | 197/144  |
| TCDL      | 10.0         | Lumber DOL      | 1.15   | BC    | 0.02 | Vert(CT) | -0.00 | 5     | >999   | 240 |              |          |
| BCLL      | 0.0 *        | Rep Stress Incr | YES    | WB    | 0.00 | Horz(CT) | -0.00 | 3     | n/a    | n/a |              |          |
| BCDL      | 10.0         | Code IRC2018/T  | PI2014 | Matri | x-R  | Wind(LL) | 0.00  | 5     | >999   | 240 | Weight: 6 lb | FT = 10% |

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-10-3 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=44(LC 8) Max Uplift 5=-22(LC 8), 3=-31(LC 8)

Max Grav 5=169(LC 1), 3=41(LC 1), 4=30(LC 3)

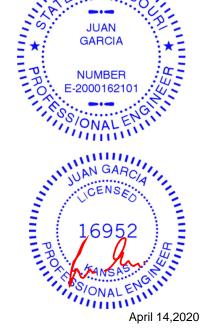
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 5 and 31 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

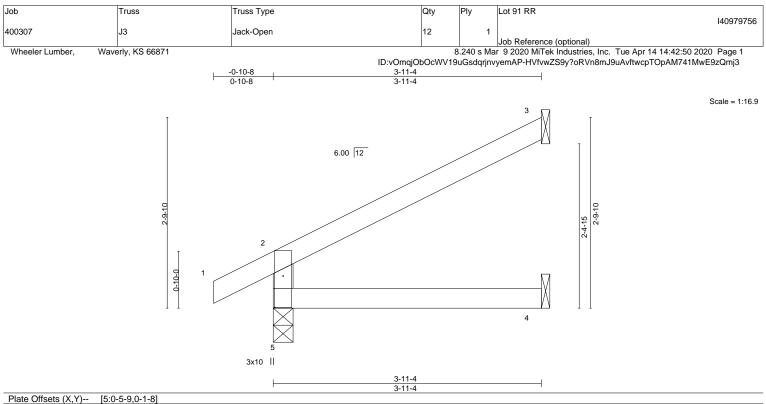


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| LOADING (psf) | <b>SPACING-</b> 2-0-0 | CSI.     | DEFL. in       | (loc) | l/defl | L/d | PLATES        | GRIP     |
|---------------|-----------------------|----------|----------------|-------|--------|-----|---------------|----------|
| TCLL 25.0     | Plate Grip DOL 1.15   | TC 0.20  | Vert(LL) -0.01 | 4-5   | >999   | 360 | MT20          | 197/144  |
| TCDL 10.0     | Lumber DOL 1.15       | BC 0.12  | Vert(CT) -0.02 | 4-5   | >999   | 240 |               |          |
| BCLL 0.0 *    | Rep Stress Incr YES   | WB 0.00  | Horz(CT) -0.01 | 3     | n/a    | n/a |               |          |
| BCDL 10.0     | Code IRC2018/TPI2014  | Matrix-R | Wind(LL) 0.01  | 4-5   | >999   | 240 | Weight: 11 lb | FT = 10% |

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 3-11-4 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=86(LC 8) Max Uplift 5=-26(LC 8), 3=-67(LC 8)

Max Grav 5=249(LC 1), 3=115(LC 1), 4=70(LC 3)

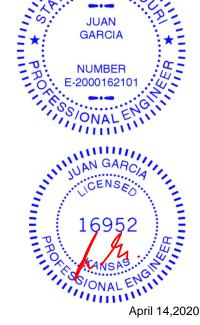
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 5 and 67 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

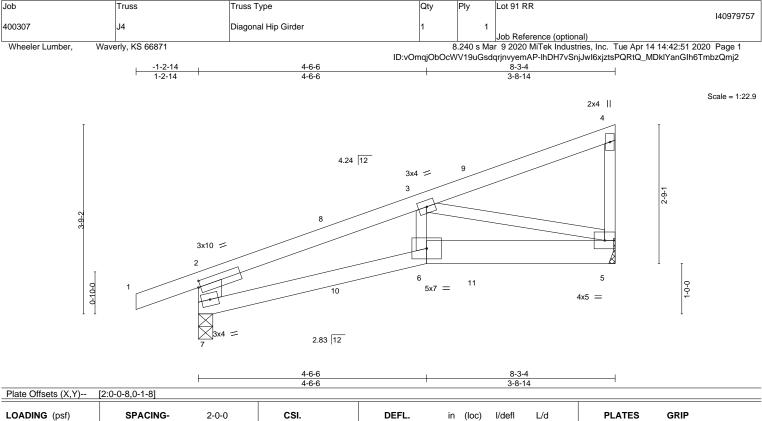


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| LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr NO<br>Code IRC2018/TPI2014   | CSI.<br>TC 0.65<br>BC 0.43<br>WB 0.25<br>Matrix-S                           | DEFL.         in           Vert(LL)         -0.06           Vert(CT)         -0.10           Horz(CT)         0.03           Wind(LL)         0.05 | 6 >999 360<br>6 >969 240<br>5 n/a n/a   | PLATES         GRIP           MT20         197/144           Weight: 30 lb         FT = 10% |
|--|--|---|--|---|---|
| 6-7: 2x4<br>WEBS 2x3 SP  | F No.2<br>F No.2 *Except*<br>4 SPF No.2<br>F No.2 *Except*<br>5 SPF No.2   |   | BRACING-<br>TOP CHORD<br>BOT CHORD   | Structural wood sheathing<br>except end verticals.<br>Rigid ceiling directly applie | directly applied or 5-9-11 oc purlins,<br>ad or 10-0-0 oc bracing.                          |
| Max Ho<br>Max Up   | ) 7=0-3-7, 5=Mechanical<br>orz 7=143(LC 5)<br>blift 7=-134(LC 4), 5=-111(LC 8)<br>rav 7=492(LC 1), 5=391(LC 1)   |   |  |   | OF MISS   |
| TOP CHORD 2-7=-<br>BOT CHORD 6-7=-2  | Comp./Max. Ten All forces 250 (lb) or<br>549/193, 2-3=-732/190<br>239/635, 5-6=-228/636<br>633/225   | less except when shown  |  |   | JUAN<br>GARCIA  |
| MWFRS (envelope)<br>grip DOL=1.60<br>2) This truss has been<br>3) * This truss has been<br>will fit between the be                   | ult=115mph (3-second gust) Vasd=91m<br>gable end zone; cantilever left and right<br>designed for a 10.0 psf bottom chord liv<br>n designed for a live load of 20.0psf on t<br>ottom chord and any other members.<br>truss to truss connections.  | exposed ; end vertical let<br>e load nonconcurrent with                     | It and right exposed; Lum<br>any other live loads.   | ber DOL=1.60 plate  | NUMBER<br>E-2000162101  |
| <ul> <li>5) Bearing at joint(s) 7 (capacity of bearing s</li> <li>6) Provide mechanical (joint 5.</li> </ul>                         | considers parallel to grain value using A<br>urface.<br>connection (by others) of truss to bearir<br>d in accordance with the 2018 Internatio  | g plate capable of withsta  | anding 134 lb uplift at join   | at 7 and 111 lb uplift at   | 16952   |
| <ol> <li>8) Hanger(s) or other or<br/>2-8-7, 70 lb down an<br/>and 4 lb down at 2-8<br/>design/selection of s</li> </ol>             | and the first second se | nd 78 lb up at 5-6-6, and<br>24 lb down at 5-6-6, and<br>ibility of others. | 97 lb down and 74 lb up a<br>I 23 lb down at 5-6-6 on  | at 5-6-6 on top chord,  | 16952   |

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

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SIONALEN

| Job                  | Truss          | Truss Type          | Qty | Ply        | Lot 91 RR   |
|----------------------|----------------|---------------------|-----|------------|---|
|                      |                |                     |     |            | 140979757   |
| 400307               | J4             | Diagonal Hip Girder | 1   | 1          |   |
|                      |                |                     |     |            | Job Reference (optional)  |
| Wheeler Lumber, Wave | erly, KS 66871 |                     | 8   | 8.240 s Ma | r 9 2020 MiTek Industries, Inc. Tue Apr 14 14:42:51 2020 Page 2 |

ID:vOmqjObOcWV19uGsdqrjnvyemAP-lhDH7vSnjJwl6xjztsPQRtQ\_MDklYanGlh6TmbzQmj2

LOAD CASE(S) Standard

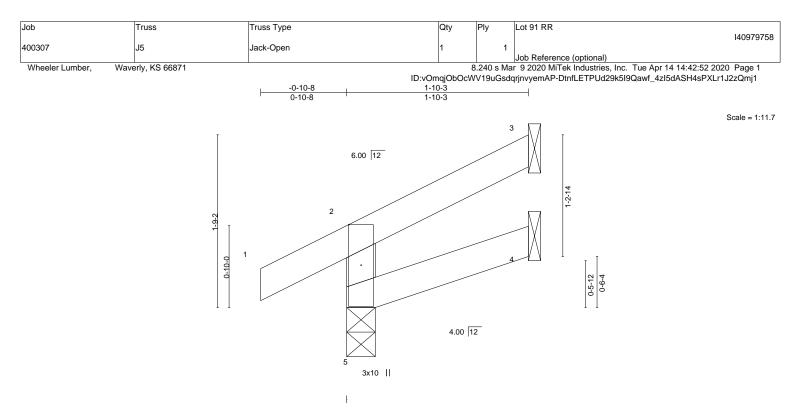
Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 6-7=-20, 5-6=-20

Concentrated Loads (lb) Vert: 9=-35(F=-13, B=-23) 10=-1(F=1, B=-2) 11=-29(F=-14, B=-16)

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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   | 360 | MT20         | 197/144  |
| TCDL   | 10.0    | Lumber DOL        | 1.15  | BC    | 0.02 | Vert(CT) | -0.00 | 5     | >999   | 240 |              |          |
| BCLL   | 0.0 *   | Rep Stress Incr   | YES   | WB    | 0.00 | Horz(CT) | -0.00 | 3     | n/a    | n/a |              |          |
| BCDL   | 10.0    | Code IRC2018/TPI2 | 014   | Matri | x-R  | Wind(LL) | 0.00  | 5     | >999   | 240 | Weight: 6 lb | FT = 10% |

BRACING-

TOP CHORD

BOT CHORD

# LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=45(LC 5) Max Uplift 5=-21(LC 8), 3=-32(LC 8) Max Grav 5=169(LC 1), 3=41(LC 1), 4=30(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 21 lb uplift at joint 5 and 32 lb uplift at ioint 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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Structural wood sheathing directly applied or 1-10-3 oc purlins,

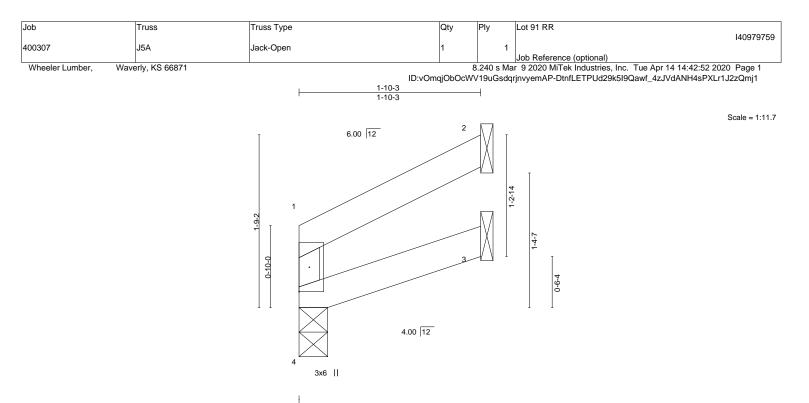
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.



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#### Plate Offsets (X Y)-- [1:0-0-10 0-1-4] [4:0-0-7 0-1-4]

| 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 0.04  | Vert(LL) | -0.00 | <b>4</b> | >999   | 360 | MT20         | 197/144  |
| TCDL 10.0     | Lumber DOL 1.15      | BC 0.03  | Vert(CT) | -0.00 | 3-4      | >999   | 240 |              |          |
| BCLL 0.0 *    | Rep Stress Incr YES  | WB 0.00  | Horz(CT) | -0.00 | 2        | n/a    | n/a |              |          |
| BCDL 10.0     | Code IRC2018/TPI2014 | Matrix-R | Wind(LL) | 0.00  | 4        | >999   | 240 | Weight: 5 lb | FT = 10% |
| LUMBER-       |                      |          | BRACING- |       |          |        |     |              |          |

#### LUMBER-

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

WEBS

TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

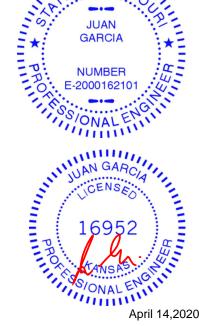
Max Horz 4=35(LC 5) Max Uplift 2=-37(LC 8)

Max Grav 4=78(LC 1), 2=58(LC 1), 3=34(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) 4 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 37 lb uplift at joint 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.



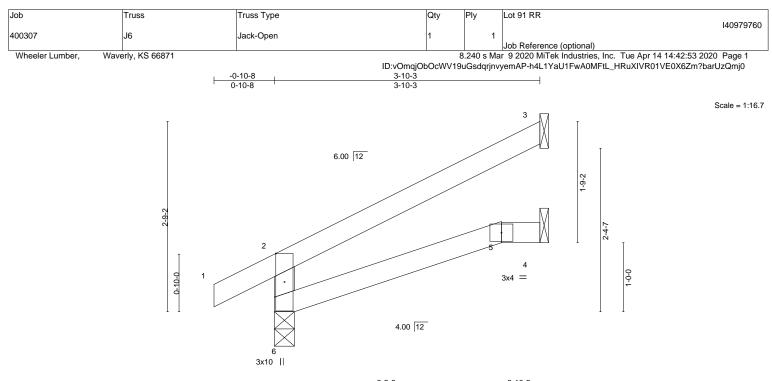
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|               |                       |          | 3-3-8<br>3-3-8 |         | 3-10-3<br>0-6-11 |                 |          |
|---------------|-----------------------|----------|----------------|---------|------------------|-----------------|----------|
| LOADING (psf) | <b>SPACING-</b> 2-0-0 | CSI.     | DEFL. ir       | ı (loc) | l/defl L/d       | d PLATES        | GRIP     |
| TCLL 25.0     | Plate Grip DOL 1.15   | TC 0.19  | Vert(LL) -0.01 | 5-6     | >999 360         | 0 MT20          | 197/144  |
| TCDL 10.0     | Lumber DOL 1.15       | BC 0.11  | Vert(CT) -0.02 | 5-6     | >999 240         | D               |          |
| BCLL 0.0 *    | Rep Stress Incr YES   | WB 0.00  | Horz(CT) -0.01 | 3       | n/a n/a          | a               |          |
| BCDL 10.0     | Code IRC2018/TPI2014  | Matrix-R | Wind(LL) 0.01  | 5-6     | >999 240         | 0 Weight: 11 lb | FT = 10% |

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

WEBS 2x4 SPF No.2

REACTIONS. 6=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 6=83(LC 8) Max Uplift 6=-25(LC 8), 3=-66(LC 8)

Max Grav 6=245(LC 1), 3=112(LC 1), 4=68(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) 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 25 lb uplift at joint 6 and 66 lb uplift at ioint 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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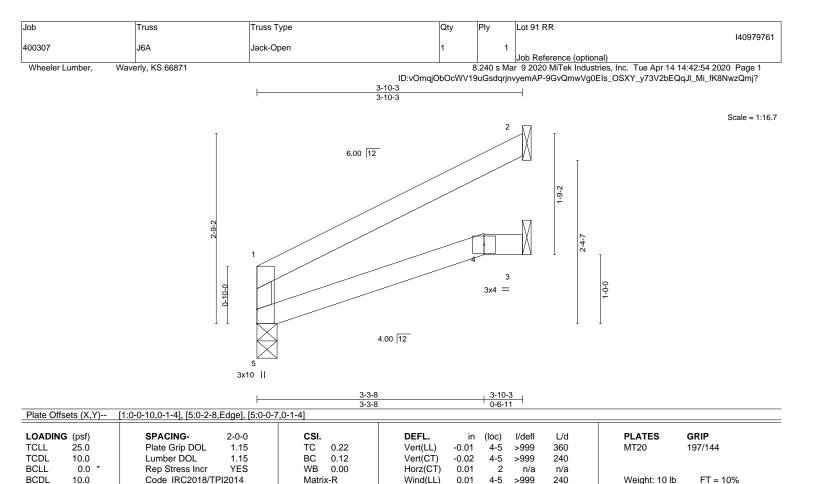
April 14,2020



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BRACING-TOP CHORD BOT CHORD

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



| LU | M | ЗE | R- |  |
|----|---|----|----|--|

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

BRACING-TOP CHORD

BOT CHORD

0.01

4-5

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

REACTIONS. 5=0-3-8, 2=Mechanical, 3=Mechanical (size)

Max Horz 5=66(LC 8) Max Uplift 2=-71(LC 8)

Max Grav 5=166(LC 1), 2=122(LC 1), 3=71(LC 3)

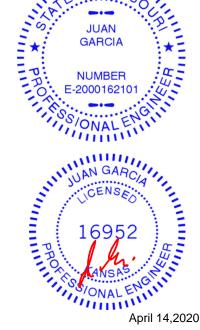
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

#### 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) 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 71 lb uplift at joint 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.



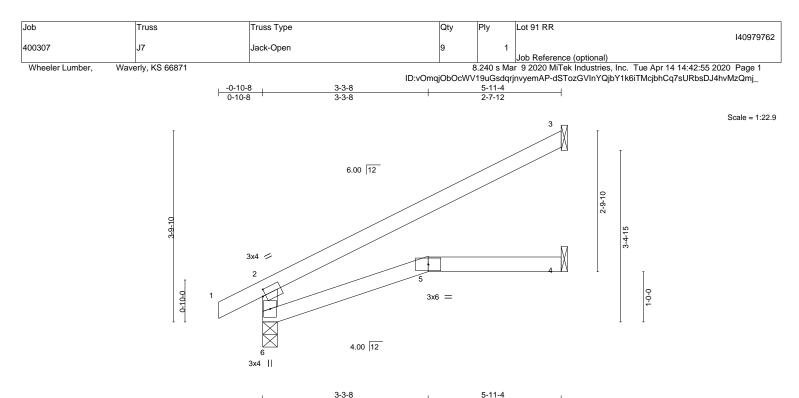
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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



|            |           |                  |        |       | 3-3-8 |          |       | 2-7-12 |        |     |               |          |
|------------|-----------|------------------|--------|-------|-------|----------|-------|--------|--------|-----|---------------|----------|
| Plate Offs | ets (X,Y) | [2:0-0-12,0-1-8] |        |       |       |          |       |        |        |     |               |          |
| 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    | 0.53  | Vert(LL) | -0.05 | 5      | >999   | 360 | MT20          | 197/144  |
| FCDL       | 10.0      | Lumber DOL       | 1.15   | BC    | 0.30  | Vert(CT) | -0.12 | 5-6    | >594   | 240 |               |          |
| BCLL       | 0.0 *     | Rep Stress Incr  | YES    | WB    | 0.00  | Horz(CT) | 0.05  | 3      | n/a    | n/a |               |          |
| BCDL       | 10.0      | Code IRC2018/TF  | PI2014 | Matri | x-R   | Wind(LL) | 0.04  | 5-6    | >999   | 240 | Weight: 16 lb | FT = 10% |

BRACING-

TOP CHORD

BOT CHORD

#### LUMBER-

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

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

Max Horz 6=88(LC 8)

Max Uplift 3=-60(LC 8)

Max Grav 6=336(LC 1), 3=181(LC 1), 4=108(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-6=-292/44

#### 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.

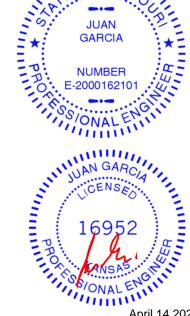
3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

5) 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 60 lb uplift at joint 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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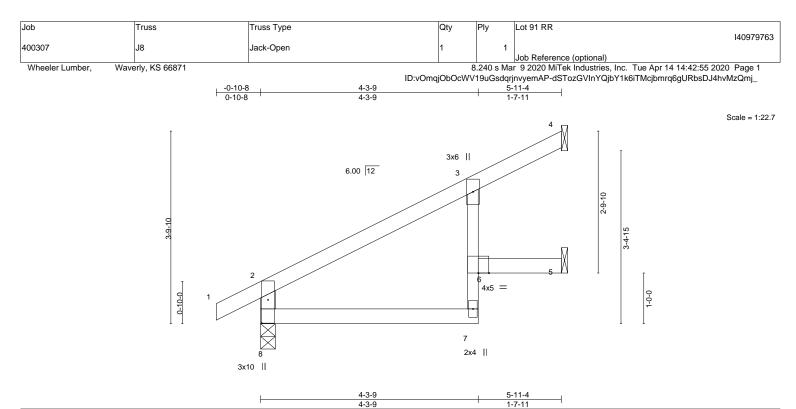
Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

except end verticals.







| Plate Offs | sets (X,Y) | [8:0-5-9,0-1-8] |        |       |      |          |       |       |        |     |               |          |
|------------|------------|-----------------|--------|-------|------|----------|-------|-------|--------|-----|---------------|----------|
|            | 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    | 0.23 | Vert(LL) | -0.04 | 6     | >999   | 360 | MT20          | 197/144  |
| CDL        | 10.0       | Lumber DOL      | 1.15   | BC    | 0.37 | Vert(CT) | -0.07 | 6     | >999   | 240 |               |          |
| BCLL       | 0.0 *      | Rep Stress Incr | YES    | WB    | 0.00 | Horz(CT) | 0.02  | 5     | n/a    | n/a |               |          |
| BCDL       | 10.0       | Code IRC2018/TI | PI2014 | Matri | x-R  | Wind(LL) | 0.03  | 6     | >999   | 240 | Weight: 18 lb | FT = 10% |

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

BRACING-TOP CHORD S

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) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=89(LC 8) Max Uplift 4=-23(LC 8), 5=-18(LC 8)

Max Grav 8=336(LC 1), 4=125(LC 1), 5=126(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-302/28

#### 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

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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 4 and 18 lb uplift at joint 5.

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

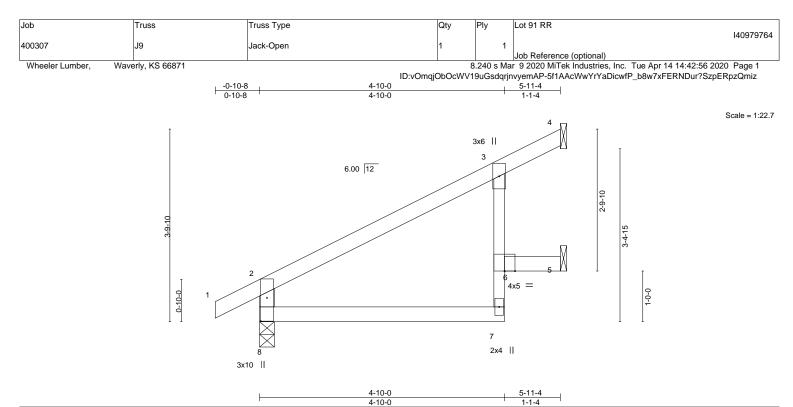


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| LOADING (psf) | <b>SPACING-</b> 2-0-0 | CSI.     | DEFL.      | in (loc)  | l/defl | L/d | PLATES GRIP            |
|---------------|-----------------------|----------|------------|-----------|--------|-----|------------------------|
| TCLL 25.0     | Plate Grip DOL 1.15   | TC 0.25  | Vert(LL) - | -0.02 6   | >999   | 360 | MT20 197/144           |
| TCDL 10.0     | Lumber DOL 1.15       | BC 0.41  | Vert(CT) - | -0.05 7-8 | >999   | 240 |                        |
| BCLL 0.0 *    | Rep Stress Incr YES   | WB 0.00  | Horz(CT)   | 0.02 4    | n/a    | n/a |                        |
| BCDL 10.0     | Code IRC2018/TPI2014  | Matrix-R | Wind(LL)   | 0.02 6    | >999   | 240 | Weight: 18 lb FT = 10% |

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

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=89(LC 8) Max Uplift 4=-6(LC 8), 5=-35(LC 8) Max Grav 8=336(LC 1), 4=86(LC 1), 5=166(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-8=-296/31

#### 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

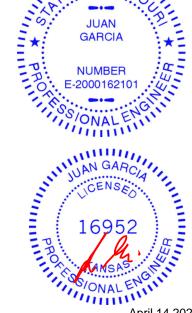
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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 6 lb uplift at joint 4 and 35 lb uplift at ioint 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.



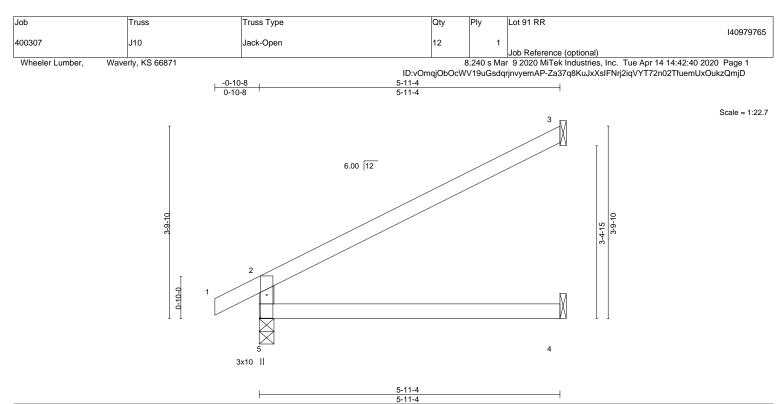
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| Plate Offsets (X,Y) | [5:0-5-9,0-1-8]       |          |   |   |
|---------------------|-----------------------|----------|---|---|
| LOADING (psf)       | <b>SPACING-</b> 2-0-0 | CSI.     | DEFL. in (loc) I/defl L/d PLATES GRIP             |   |
| TCLL 25.0           | Plate Grip DOL 1.15   | TC 0.52  | Vert(LL) -0.05 4-5 >999 360 MT20 197/144          |   |
| TCDL 10.0           | Lumber DOL 1.15       | BC 0.31  | Vert(CT) -0.11 4-5 >609 240                       |   |
| BCLL 0.0 *          | Rep Stress Incr YES   | WB 0.00  | Horz(CT) 0.05 3 n/a n/a                           |   |
| BCDL 10.0           | Code IRC2018/TPI2014  | Matrix-R | Wind(LL) 0.04 4-5 >999 240 Weight: 16 lb FT = 109 | % |
|                     |                       |          |   |   |
| LUMBER-             |                       |          | BRACING-  |   |

TOP CHORD

#### LUMBER-

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

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

Max Horz 5=89(LC 8)

Max Uplift 3=-60(LC 8)

Max Grav 5=336(LC 1), 3=180(LC 1), 4=109(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-293/45

#### 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 60 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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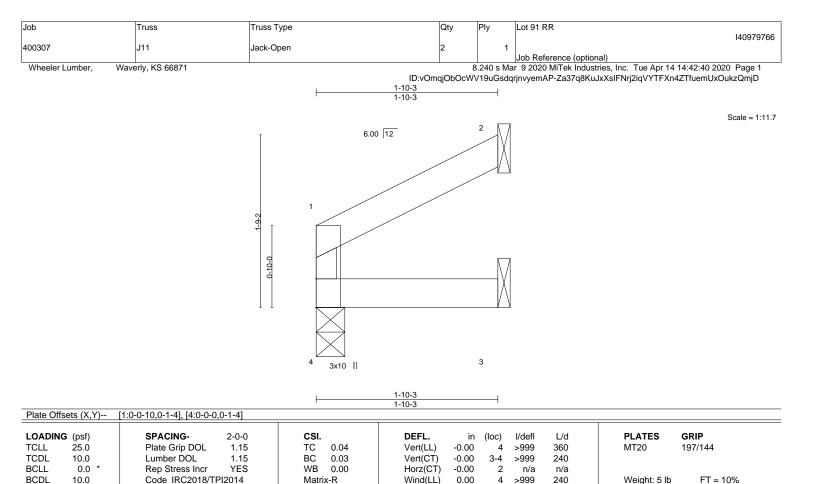
🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 **ANSUTPIT Quality Criteria**, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





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



0.00

BRACING-

TOP CHORD

BOT CHORD

>999

except end verticals.

4

240

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

Weight: 5 lb

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

|   | _  | _  |    |
|---|----|----|----|
| ш | JM | BF | R- |

BCDL

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

10.0

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

Max Horz 4=34(LC 5) Max Uplift 2=-37(LC 8)

Max Grav 4=78(LC 1), 2=58(LC 1), 3=34(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

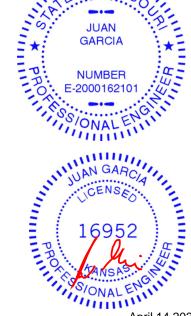
Matrix-R

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 37 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

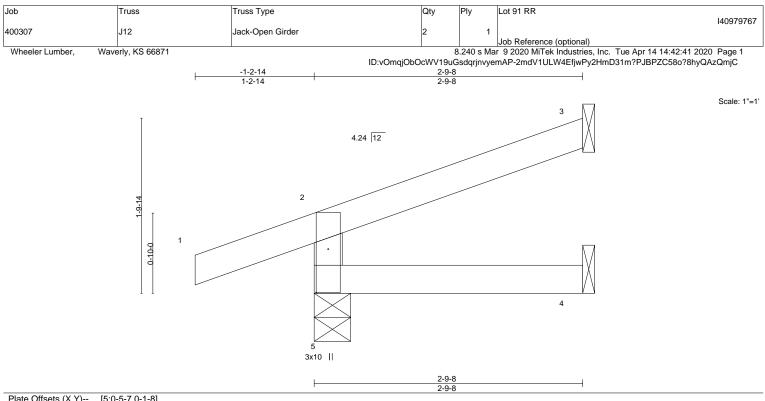


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| OADING (psf) | <b>SPACING-</b> 2-0-0 | CSI.     | DEFL. in       | (loc) | l/defl | L/d | PLATES       | GRIP     |
|--------------|-----------------------|----------|----------------|-------|--------|-----|--------------|----------|
| TCLL 25.0    | Plate Grip DOL 1.15   | TC 0.11  | Vert(LL) -0.00 | 4-5   | >999   | 360 | MT20         | 197/144  |
| TCDL 10.0    | Lumber DOL 1.15       | BC 0.04  | Vert(CT) -0.00 | 4-5   | >999   | 240 |              |          |
| BCLL 0.0 *   | Rep Stress Incr NO    | WB 0.00  | Horz(CT) -0.00 | 3     | n/a    | n/a |              |          |
| BCDL 10.0    | Code IRC2018/TPI2014  | Matrix-R | Wind(LL) 0.00  | 4-5   | >999   | 240 | Weight: 9 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 2-9-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS. (size) 5=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=64(LC 7) Max Uplift 5=-95(LC 6), 3=-48(LC 12), 4=-4(LC 19) Max Grav 5=97(LC 1), 3=30(LC 1), 4=34(LC 3)

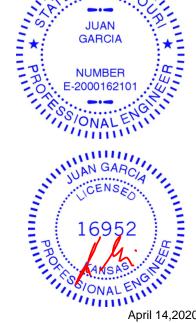
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 5, 48 lb uplift at joint 3 and 4 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 20 lb down and 7 lb up at -1-2-14, and 20 lb down and 7 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
  - Concentrated Loads (Ib)
  - Vert: 1=-31(F=-15, B=-15)
  - Trapezoidal Loads (plf)
    - Vert: 1=0(F=35, B=35)-to-2=-24(F=23, B=23), 2=-3(F=33, B=33)-to-3=-50(F=10, B=10), 5=0(F=10, B=10)-to-4=-14(F=3, B=10)-to-4=-1 B=3)



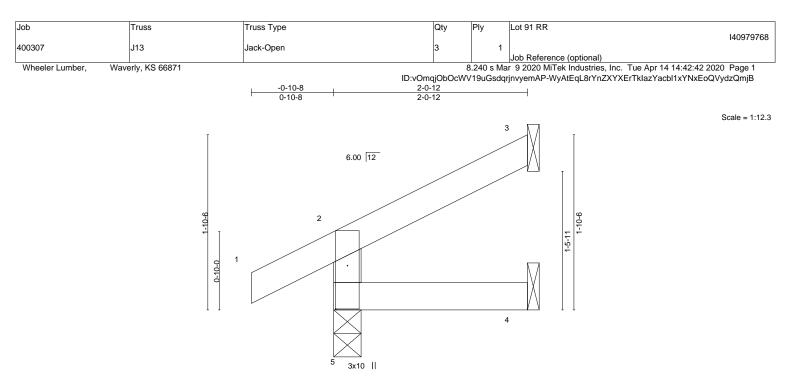
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|                     |                 | 1    | 2-0-12 | 1 |      |  |
|---------------------|-----------------|------|--------|---|------|--|
|                     |                 |      | 2-0-12 | 1 |      |  |
| Plate Offsets (X,Y) | [5:0-5-9,0-1-8] |      |        |   |      |  |
|                     |                 | <br> |        |   | <br> |  |

| LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014 | CSI.<br>TC 0.07<br>BC 0.03<br>WB 0.00<br>Matrix-R | DEFL.         in           Vert(LL)         -0.00           Vert(CT)         -0.00           Horz(CT)         -0.00           Wind(LL)         0.00 | 5<br>4-5<br>3 | >999 3<br>>999 2<br>n/a | L/d<br>360<br>240<br>n/a<br>240 | PLATES<br>MT20<br>Weight: 7 lb | <b>GRIP</b><br>197/144<br>FT = 10% |
|--|---|---|---|---------------|-------------------------|---------------------------------|--------------------------------|------------------------------------|
| BCDL 10.0<br>  | Code IRC2018/TPI2014  | Matrix-R  | BRACING-  | 5             | >999 2                  | 240                             | Weight: 7 lb                   | FT = 10%                           |

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

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-0-12 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=47(LC 8) Max Uplift 5=-22(LC 8), 3=-34(LC 8)

Max Grav 5=175(LC 1), 3=48(LC 1), 4=34(LC 3)

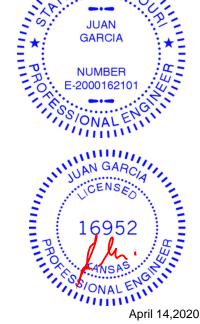
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 5 and 34 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



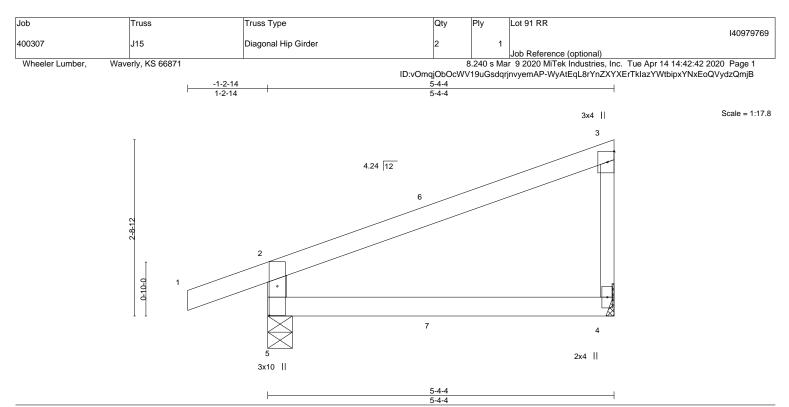
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**MiTek** 16023 Swingley Ridge Rd Chesterfield, MO 63017



| Plate Off | sets (X,Y) | [5:0-5-7,0-1-8] |       |       |      |          |       |       |        |     |               |          |
|-----------|------------|-----------------|-------|-------|------|----------|-------|-------|--------|-----|---------------|----------|
| LOADIN    | G (psf)    | SPACING-        | 2-0-0 | CSI.  |      | DEFL.    | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
| TCLL      | 25.0       | Plate Grip DOL  | 1.15  | TC    | 0.37 | Vert(LL) | -0.03 | 4-5   | >999   | 360 | MT20          | 197/144  |
| TCDL      | 10.0       | Lumber DOL      | 1.15  | BC    | 0.23 | Vert(CT) | -0.06 | 4-5   | >999   | 240 |               |          |
| BCLL      | 0.0 *      | Rep Stress Incr | NO    | WB    | 0.00 | Horz(CT) | -0.00 | 4     | n/a    | n/a |               |          |
| BCDL      | 10.0       | Code IRC2018/TF | 12014 | Matri | x-R  | Wind(LL) | 0.01  | 4-5   | >999   | 240 | Weight: 16 lb | FT = 10% |
|           |            |                 |       |       |      |          |       |       |        |     |               |          |

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 5=0-4-9, 4=Mechanical Max Horz 5=114(LC 5)

Max Uplift 5=-99(LC 4), 4=-50(LC 8) Max Grav 5=338(LC 1), 4=215(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-299/137

#### NOTES-

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

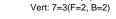
3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

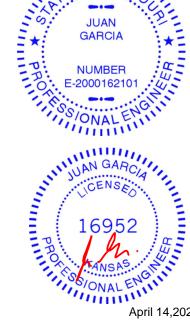
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 5 and 50 lb uplift at ioint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 34 lb up at 2-7-6, and 69 lb down and 34 lb up at 2-7-6 on top chord, and 4 lb down and 2 lb up at 2-7-6, and 4 lb down and 2 lb up at 2-7-6 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)





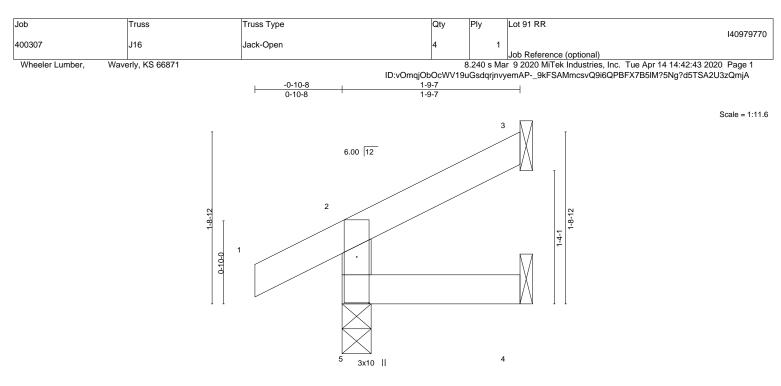
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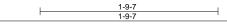
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April 14,2020



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TOP CHORD

BOT CHORD

| DADING (psf) | <b>SPACING-</b> 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) | -0.00 | 5     | >999   | 360 | MT20 197/144          |
| CDL 10.0     | Lumber DOL 1.15       | BC 0.02  | Vert(CT) | -0.00 | 5     | >999   | 240 |                       |
| CLL 0.0 *    | Rep Stress Incr YES   | WB 0.00  | Horz(CT) | -0.00 | 3     | n/a    | n/a |                       |
| CDL 10.0     | Code IRC2018/TPI2014  | Matrix-R | Wind(LL) | 0.00  | 5     | >999   | 240 | Weight: 6 lb FT = 10% |

#### LUMBER-

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

2x4 SPF No.2

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

Max Horz 5=43(LC 5) Max Uplift 5=-22(LC 8), 3=-30(LC 8)

Max Grav 5=167(LC 1), 3=39(LC 1), 4=29(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 5 and 30 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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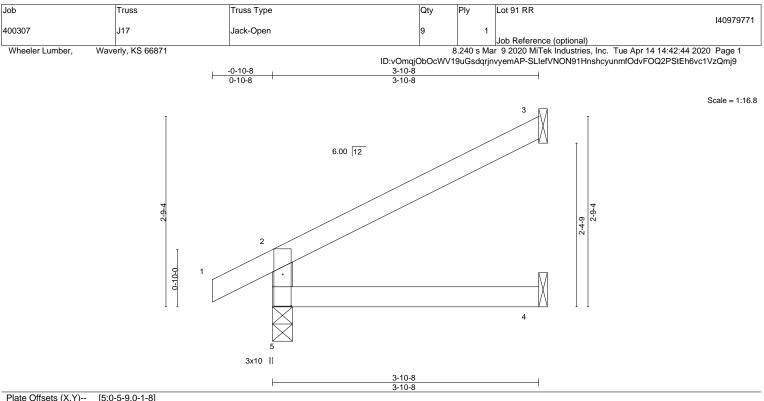
Structural wood sheathing directly applied or 1-9-7 oc purlins,

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

except end verticals.







| 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    | 0.19 | Vert(LL) | -0.01 | 4-5   | >999   | 360 | MT20          | 197/144  |
| TCDL   | 10.0    | Lumber DOL      | 1.15   | BC    | 0.12 | Vert(CT) | -0.02 | 4-5   | >999   | 240 |               |          |
| BCLL   | 0.0 *   | Rep Stress Incr | YES    | WB    | 0.00 | Horz(CT) | -0.01 | 3     | n/a    | n/a |               |          |
| BCDL   | 10.0    | Code IRC2018/T  | 912014 | Matri | x-R  | Wind(LL) | 0.01  | 4-5   | >999   | 240 | Weight: 11 lb | FT = 10% |

# LUMBER-

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 3-10-8 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=84(LC 8) Max Uplift 5=-26(LC 8), 3=-66(LC 8)

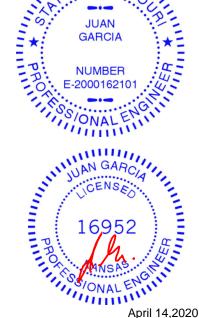
Max Grav 5=246(LC 1), 3=112(LC 1), 4=69(LC 3)

#### 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 26 lb uplift at joint 5 and 66 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



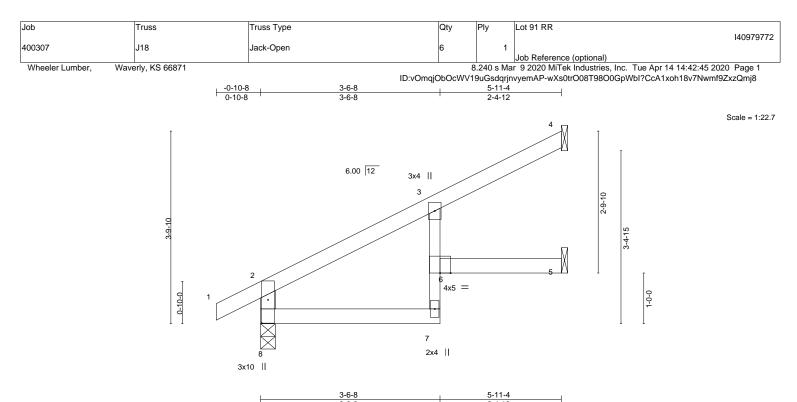
MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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



| Plate Offs | sets (X,Y) | [8:0-5-9,0-1-8] |        | 1     |      | 1        |       |       |        |     |               |          |
|------------|------------|-----------------|--------|-------|------|----------|-------|-------|--------|-----|---------------|----------|
|            | 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    | 0.32 | Vert(LL) | -0.06 | 6     | >999   | 360 | MT20          | 197/144  |
| TCDL       | 10.0       | Lumber DOL      | 1.15   | BC    | 0.39 | Vert(CT) | -0.11 | 7     | >630   | 240 |               |          |
| BCLL       | 0.0 *      | Rep Stress Incr | YES    | WB    | 0.00 | Horz(CT) | 0.04  | 5     | n/a    | n/a |               |          |
| BCDL       | 10.0       | Code IRC2018/TI | PI2014 | Matri | x-R  | Wind(LL) | 0.05  | 6     | >999   | 240 | Weight: 18 lb | FT = 10% |

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

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

 BRACING 

 TOP CHORD
 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=89(LC 8) Max Uplift 4=-36(LC 8), 5=-5(LC 8) Max Grav 8=336(LC 1), 4=151(LC 1), 5=100(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-8=-309/25

#### 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

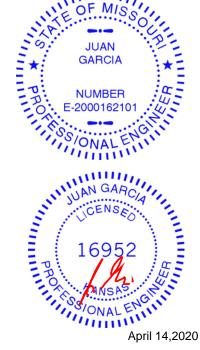
This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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 36 lb uplift at joint 4 and 5 lb uplift at joint 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.

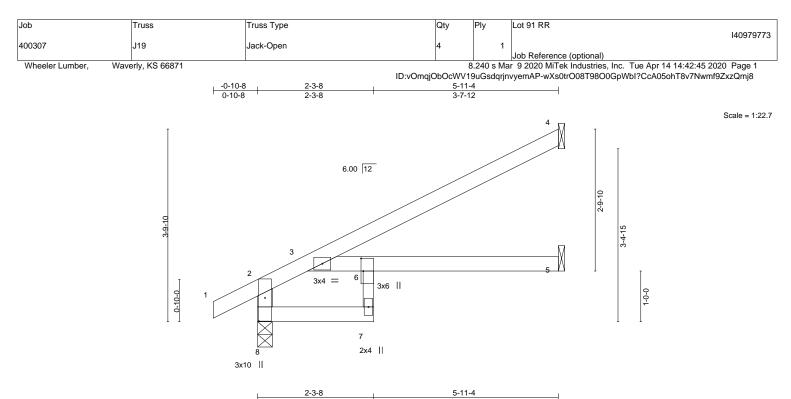


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|             |           |                             | 1      | 2-3-8  | 1    |          | 3-7-12 |       |        | I   |               |          |
|-------------|-----------|-----------------------------|--------|--------|------|----------|--------|-------|--------|-----|---------------|----------|
| Plate Offse | ets (X,Y) | [6:0-3-0,0-0-8], [8:0-5-9,0 | )-1-8] |        |      |          |        |       |        |     |               |          |
| 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   | TC     | 0.44 | Vert(LL) | -0.06  | 5-6   | >999   | 360 | MT20          | 197/144  |
| CDL         | 10.0      | Lumber DOL                  | 1.15   | BC     | 0.43 | Vert(CT) | -0.13  | 5-6   | >530   | 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/T              | PI2014 | Matrix | (-R  | Wind(LL) | 0.05   | 5-6   | >999   | 240 | Weight: 18 lb | FT = 10% |

# LUMBER-

| TOP CHORD | 2x4 SPF No.2          |
|-----------|-----------------------|
| BOT CHORD | 2x4 SPF No.2 *Except* |
|           | 6-7: 2x3 SPF No.2     |
| WEBS      | 2x4 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) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=89(LC 8) Max Uplift 4=-49(LC 8) Max Grav 8=354(LC 1), 4=167(LC 1), 5=116(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-8=-345/13

### 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 49 lb uplift at joint 4.

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

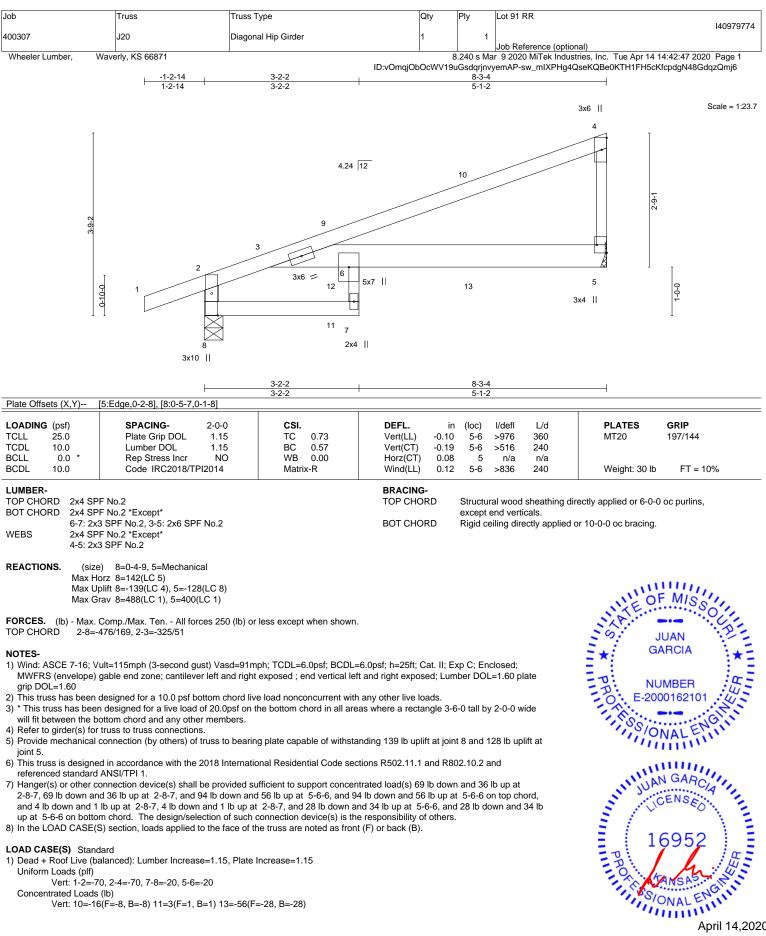


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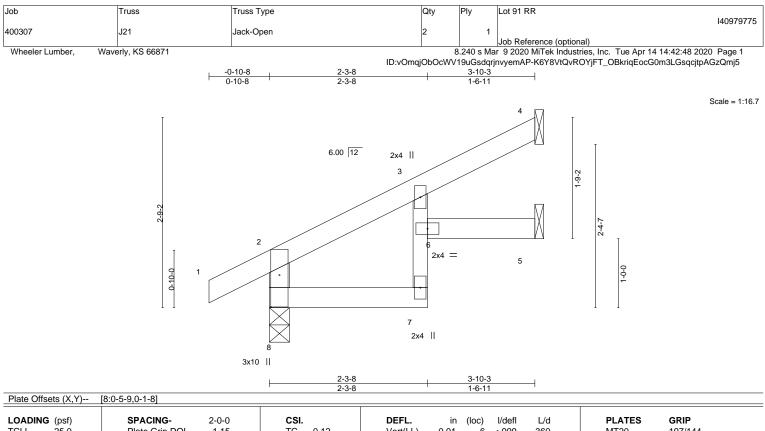






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| LUMBER-       | 2F No 2               |          | BRACING-       | Structu | ural wood s | heathing dire | ectly applied or 3-10-3 or | ourlins  |
|---------------|-----------------------|----------|----------------|---------|-------------|---------------|----------------------------|----------|
| BCDL 10.0     | Code IRC2018/TPI2014  | Matrix-R | Wind(LL) 0.01  | 7       | >999        | 240           | Weight: 12 lb              | FT = 10% |
| BCLL 0.0 *    | Rep Stress Incr YES   | WB 0.00  | Horz(CT) 0.01  | 5       | n/a         | n/a           |                            |          |
| TCDL 10.0     | Lumber DOL 1.15       | BC 0.18  | Vert(CT) -0.02 | 7       | >999        | 240           |                            |          |
| TCLL 25.0     | Plate Grip DOL 1.15   | TC 0.12  | Vert(LL) -0.01 | 6       | >999        | 360           | MT20 19                    | 7/144    |
| LOADING (psf) | <b>SPACING-</b> 2-0-0 | CSI.     | DEFL. in       | (loc)   | l/defl      | L/d           | PLATES GF                  | RIP      |
|               |                       |          |                |         |             |               |                            |          |

| LUMBER-  |                          | BRACING-  |  |
|----------|--------------------------|-----------|--|
| TOP CHOR | RD 2x4 SPF No.2          | TOP CHORD | Structural wood sheathing directly applied or 3-10-3 oc purlins, |
| BOT CHOR | RD 2x4 SPF No.2 *Except* |           | except end verticals.  |
|          | 3-7: 2x3 SPF No.2        | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.             |
| WEBS     | 2x4 SPF No.2             |           |  |

#### REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=84(LC 8) Max Uplift 8=-26(LC 8), 4=-45(LC 8), 5=-14(LC 8) Max Grav 8=245(LC 1), 4=98(LC 1), 5=58(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

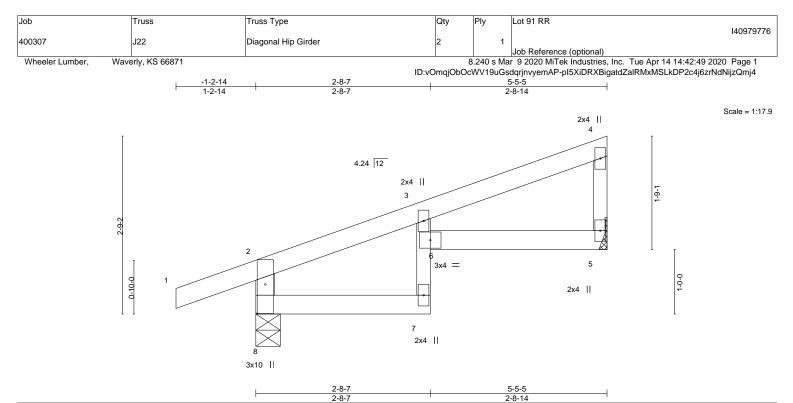
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 8, 45 lb uplift at joint 4 and 14 lb uplift at joint 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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| Plate Offsets (X,Y) | [8:0-5-7,0-1-8] |       | _     |      |          |       |       |        |     |               |          |
|---------------------|-----------------|-------|-------|------|----------|-------|-------|--------|-----|---------------|----------|
| 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    | 0.30 | Vert(LL) | -0.04 | 6     | >999   | 360 | MT20          | 197/144  |
| TCDL 10.0           | Lumber DOL      | 1.15  | BC    | 0.41 | Vert(CT) | -0.07 | 7     | >845   | 240 |               |          |
| BCLL 0.0 *          | Rep Stress Incr | NO    | WB    | 0.00 | Horz(CT) | 0.03  | 5     | n/a    | n/a |               |          |
| BCDL 10.0           | Code IRC2018/TP | 12014 | Matri | x-R  | Wind(LL) | 0.04  | 6     | >999   | 240 | Weight: 17 lb | FT = 10% |

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2 \*Except\*

 3.7: 2x3 SPF No.2

 WEBS
 2x4 SPF No.2 \*Except\*

 4-5: 2x3 SPF No.2

BRACING-TOP CHORD Structural woo except end ve

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

REACTIONS. (size) 8=0-4-9, 5=Mechanical Max Horz 8=99(LC 5)

Max Uplift 8=-97(LC 4), 5=-52(LC 8) Max Grav 8=342(LC 1), 5=220(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-317/117

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 97 lb uplift at joint 8 and 52 lb uplift at joint 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.

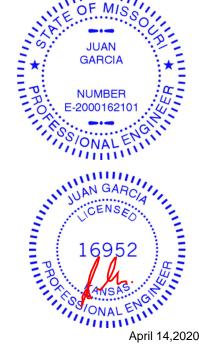
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 36 lb up at 2-8-7, and 69 lb down and 36 lb up at 2-8-7 on top chord, and 4 lb down and 1 lb up at 2-7-3, and 4 lb down and 1 lb up at 2-7-3 on bottom chord. The design/selection of 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, 2-4=-70, 7-8=-20, 5-6=-20 Concentrated Loads (lb)

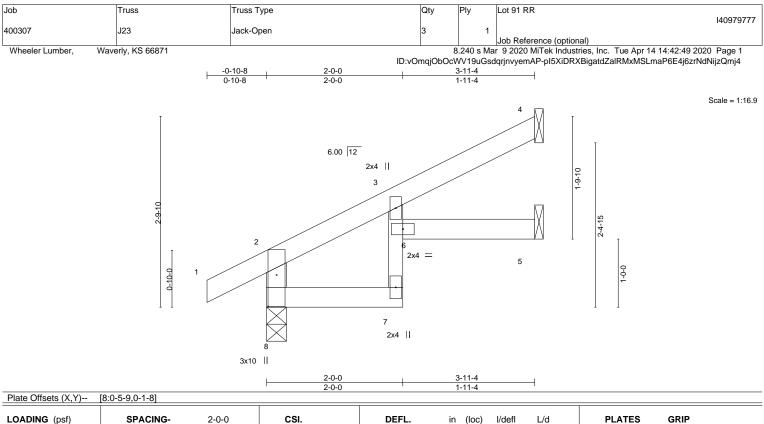
Vert: 7=3(F=1, B=1)



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| LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014 | <b>CSI.</b><br>TC 0.15<br>BC 0.18<br>WB 0.00<br>Matrix-R | Vert(CT) -0.<br>Horz(CT) 0 | in (lo<br>.01<br>.02<br>.02<br>.02 | oc)<br>6<br>7<br>5<br>7 | l/defl<br>>999<br>>999<br>n/a<br>>999 | L/d<br>360<br>240<br>n/a<br>240 | PLATES<br>MT20<br>Weight: 12 lb | <b>GRIP</b><br>197/144<br>FT = 10% |
|--|---|--|----------------------------|------------------------------------|-------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|
| LUMBER-  |   |  | BRACING-                   | .02                                |                         |                                       | 210                             | Wolght. 12 lb                   |                                    |

| LUMBER-   |                       | BRACING-  |  |
|-----------|-----------------------|-----------|--|
| TOP CHORD | 2x4 SPF No.2          | TOP CHORD | Structural wood sheathing directly applied or 3-11-4 oc purlins, |
| BOT CHORD | 2x4 SPF No.2 *Except* |           | except end verticals.  |
|           | 3-7: 2x3 SPF No.2     | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.             |
| WEBS      | 2x4 SPF No.2          |           |  |

# REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=86(LC 8) Max Uplift 8=-26(LC 8), 4=-52(LC 8), 5=-8(LC 8) Max Grav 8=249(LC 1), 4=106(LC 1), 5=59(LC 3)

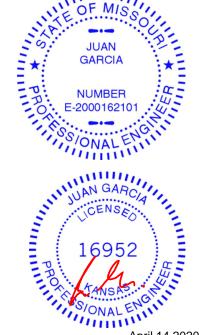
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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.

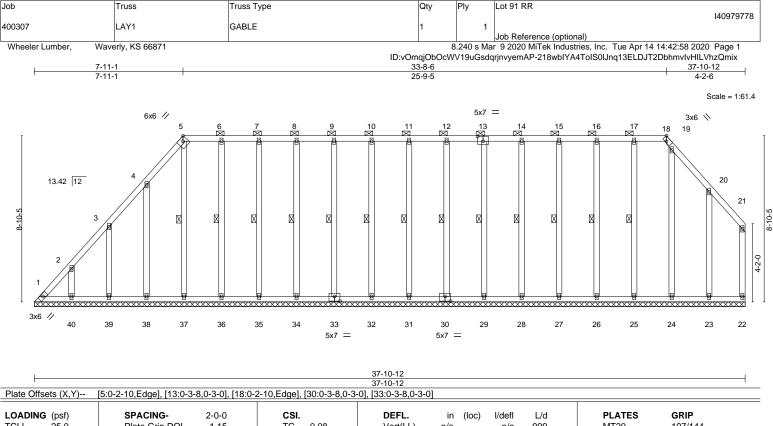
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 8, 52 lb uplift at joint 4 and 8 lb uplift at joint 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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| LOADING | (pst)     | SPACING-        | 2-0-0  | USI.  |      | DEFL.    | In    | (IOC)   | i/defi      | L/a           | PLATES                     | GRIP                |
|---------|-----------|-----------------|--------|-------|------|----------|-------|---------|-------------|---------------|----------------------------|---------------------|
| TCLL    | 25.0      | Plate Grip DOL  | 1.15   | TC    | 0.08 | Vert(LL) | n/a   | -       | n/a         | 999           | MT20                       | 197/144             |
| TCDL    | 10.0      | Lumber DOL      | 1.15   | BC    | 0.04 | Vert(CT) | n/a   | -       | n/a         | 999           |                            |                     |
| BCLL    | 0.0 *     | Rep Stress Incr | YES    | WB    | 0.16 | Horz(CT) | -0.00 | 22      | n/a         | n/a           |                            |                     |
| BCDL    | 10.0      | Code IRC2018/T  | PI2014 | Matri | x-S  |          |       |         |             |               | Weight: 249 lb             | FT = 10%            |
| LUMBER- | LUMBER-   |                 |        |       |      |          |       |         |             |               |                            |                     |
| TOP CHO | RD 2x4 SP | F No.2          |        |       |      | TOP CHOR | D     | Structu | ral wood    | sheathing d   | irectly applied or 6-0-0 o | oc purlins,         |
| BOT CHO | RD 2x4 SP | F No.2          |        |       |      |          |       | except  | end verti   | cals, and 2-0 | 0-0 oc purlins (6-0-0 max  | x.): 5-18.          |
| WEBS    | 2x4 SP    | F No.2          |        |       |      | BOT CHOR | D     | Rigid c | eiling dire | ectly applied | or 10-0-0 oc bracing.      |                     |
| OTHERS  | 2x4 SP    | F No.2          |        |       |      | WEBS     |       | 1 Row   | at midpt    |               | 5-37, 6-36, 7-35, 8-34, 9  | 9-33, 10-32, 11-31, |

5-37, 6-36, 7-35, 8-34, 9-33, 10-32, 11-31, 1 Row at midpt 12-30, 13-29, 14-28, 15-27, 16-26, 17-25

REACTIONS. All bearings 37-10-12.

(lb) -Max Horz 1=282(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 22, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24 except 1=-177(LC 6), 40=-137(LC 8), 39=-137(LC 8), 38=-141(LC 8), 37=-107(LC 7), 23=-168(LC 9) Max Grav All reactions 250 lb or less at joint(s) 22, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23 except 1=258(LC 5)

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

TOP CHORD 1-2=-348/297, 2-3=-297/255, 3-4=-261/244

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

5) Gable requires continuous bottom chord bearing.

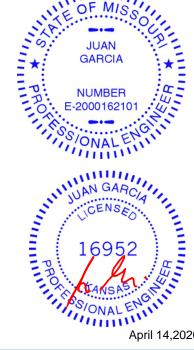
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

\* 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 7) will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24 except (jt=lb) 1=177, 40=137, 39=137, 38=141, 37=107, 23=168.

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.

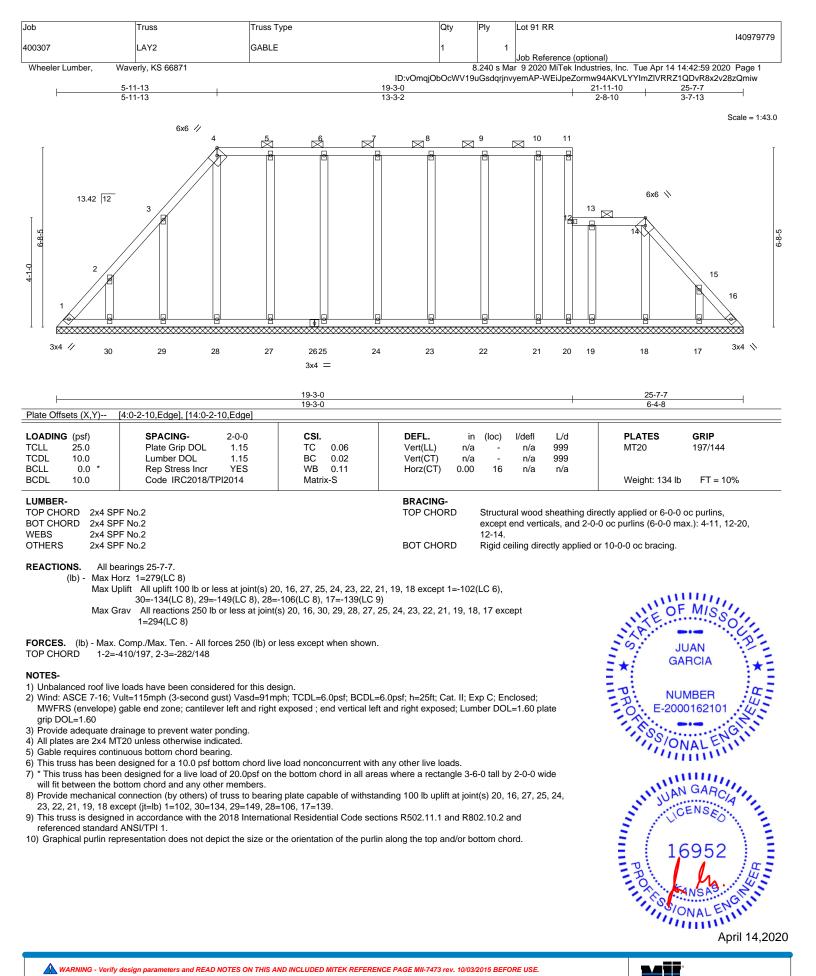


MILLIN

April 14,2020

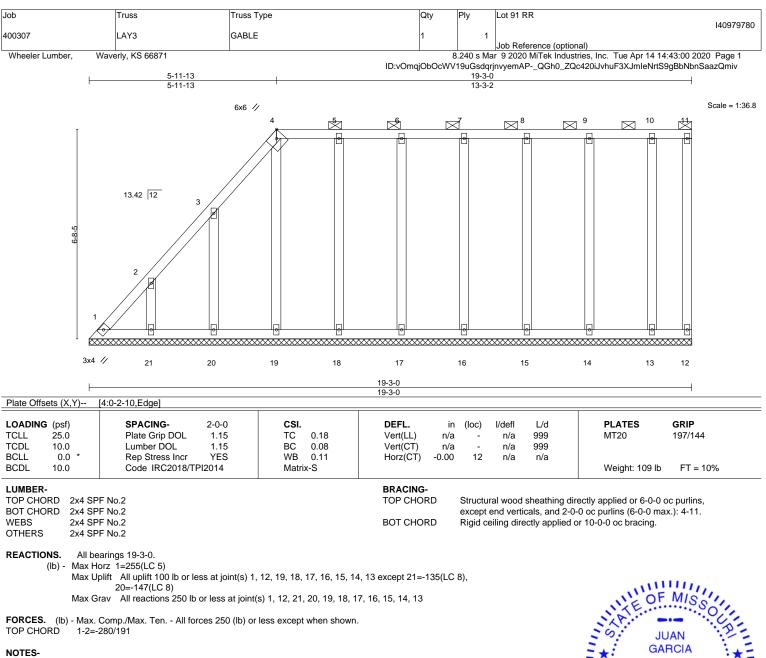


🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 **ANSUTPIT Quality Criteria**, **DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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 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) Provide adequate drainage to prevent water ponding.

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

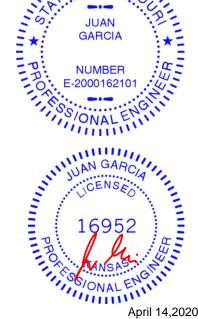
4) Gable requires continuous bottom chord bearing.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 19, 18, 17, 16, 15, 14, 13 except (jt=lb) 21=135, 20=147.

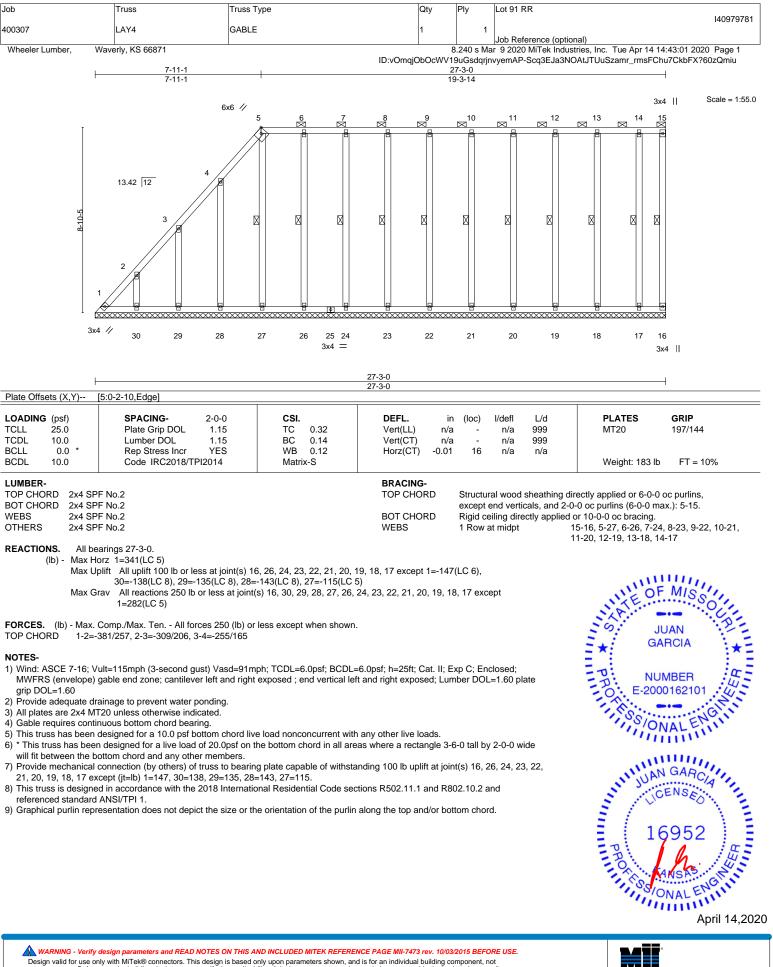
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



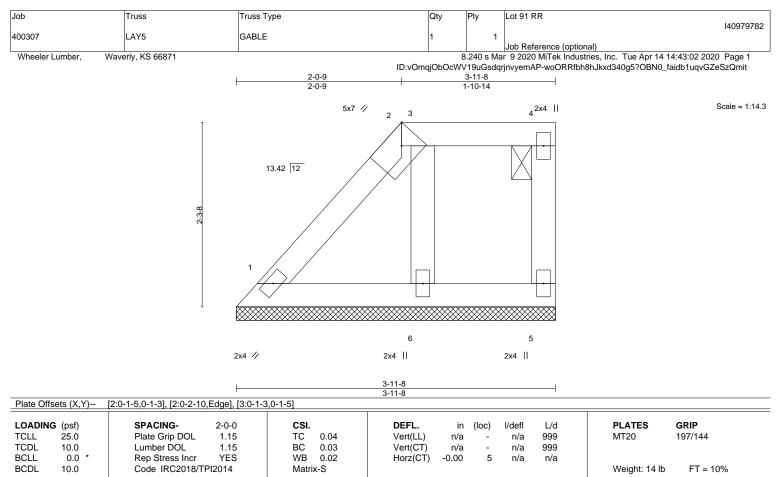
16023 Swingley Ridge Rd Chesterfield, MO 63017

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



| LUMBER-   |              | BRACING-  |                                   |                                     |
|-----------|--------------|-----------|-----------------------------------|-------------------------------------|
| TOP CHORD | 2x4 SPF No.2 | TOP CHORD | Structural wood sheathing dir     | ectly applied or 3-11-8 oc purlins, |
| BOT CHORD | 2x4 SPF No.2 |           | except end verticals, and 2-0-    | 0 oc purlins: 2-4.                  |
| WEBS      | 2x4 SPF No.2 | BOT CHORD | Rigid ceiling directly applied of | r 10-0-0 oc bracing.                |
| OTHERS    | 2x4 SPF No.2 |           |                                   | -                                   |

REACTIONS. (size) 1=3-11-8, 5=3-11-8, 6=3-11-8 Max Horz 1=79(LC 5) Max Uplift 1=-5(LC 4), 5=-21(LC 4), 6=-67(LC 5) Max Grav 1=90(LC 16), 5=49(LC 1), 6=189(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) 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.
- \* 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, 5, 6. 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.

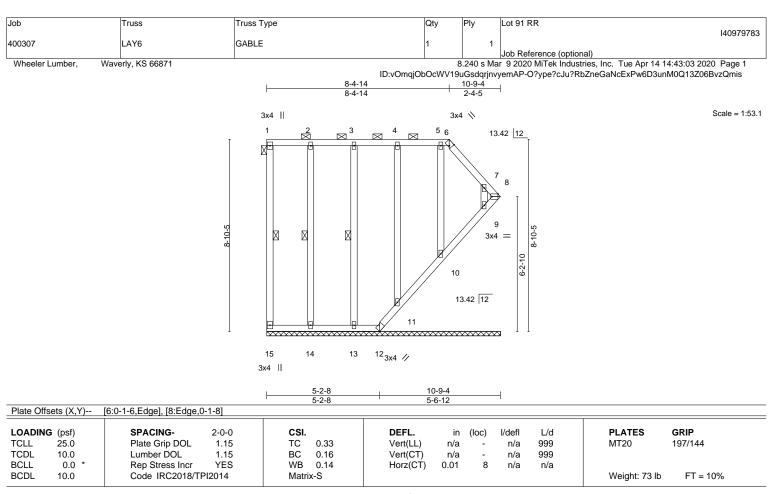


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| LUMBER-   |              | BRACING-  |                           |  |
|-----------|--------------|-----------|---------------------------|--|
| TOP CHORD | 2x4 SPF No.2 | TOP CHORD | Structural wood sheath    | hing directly applied or 6-0-0 oc purlins, |
| BOT CHORD | 2x4 SPF No.2 |           | except end verticals, a   | and 2-0-0 oc purlins (6-0-0 max.): 1-6.    |
| WEBS      | 2x4 SPF No.2 | BOT CHORD | Rigid ceiling directly ap | pplied or 10-0-0 oc bracing, Except:       |
| OTHERS    | 2x4 SPF No.2 |           | 6-0-0 oc bracing: 9-10    | ,8-9.                                      |
|           |              | WEBS      | 1 Row at midpt            | 1-15, 2-14, 3-13                           |

REACTIONS. All bearings 10-9-4.

Max Horz 15=-271(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 15, 14, 13, 11, 9 except 8=-255(LC 5), 12=-157(LC 6), 10=-121(LC 4)

Max Grav All reactions 250 lb or less at joint(s) 15, 12, 14, 13, 11, 10, 9 except 8=358(LC 6)

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) Provide adequate drainage to prevent water ponding.

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

4) Gable requires continuous bottom chord bearing.

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

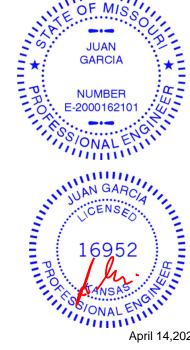
\* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 6) will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 14, 13, 11, 9 except (jt=lb) 8=255, 12=157, 10=121.

8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 11, 10, 9.

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.

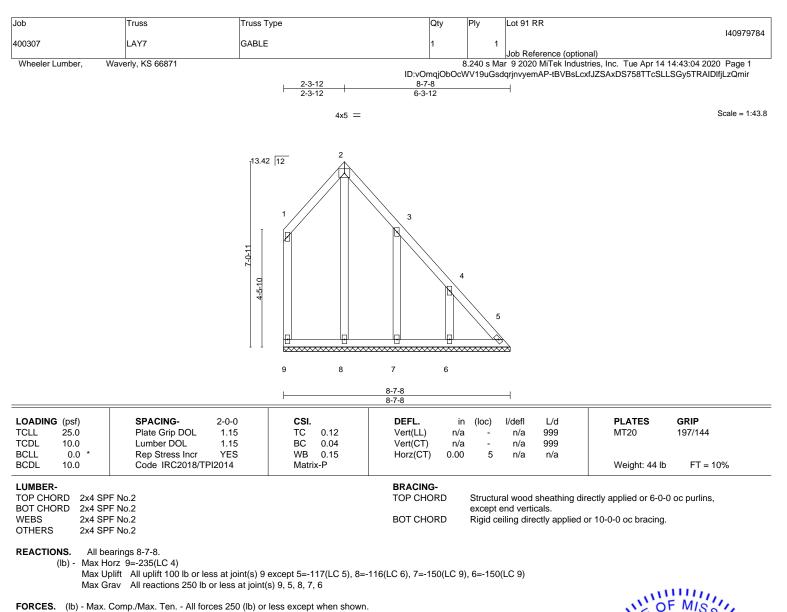


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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD

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

4) Gable requires continuous bottom chord bearing.

4-5=-273/226

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

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (it=lb) 5=117, 8=116, 7=150, 6=150.

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

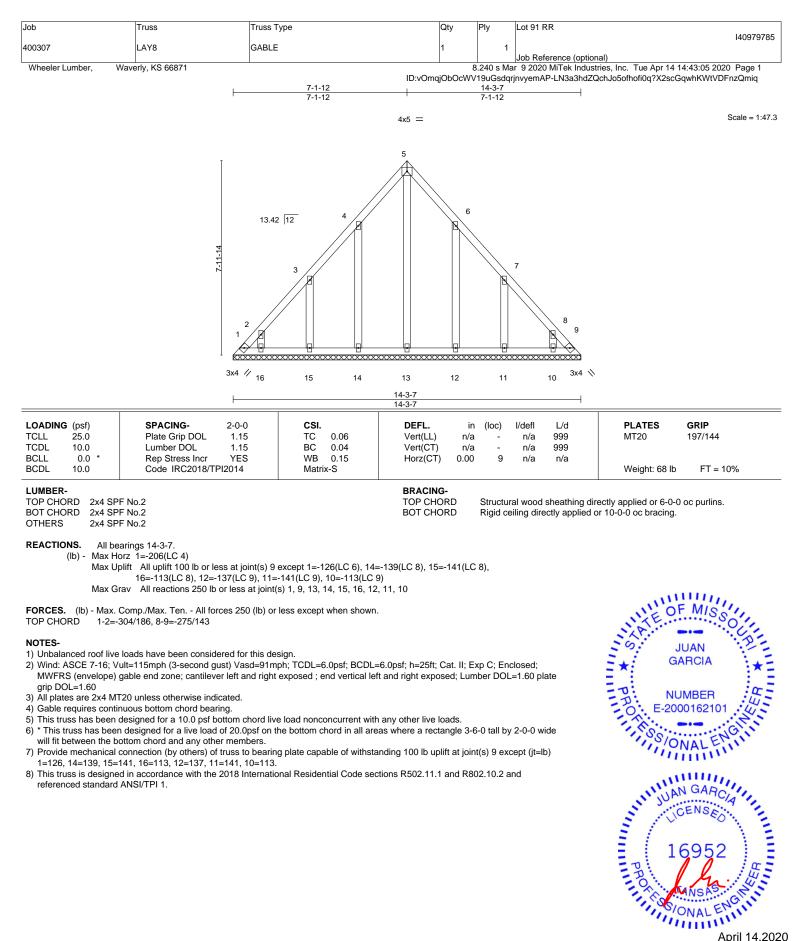


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JUAN

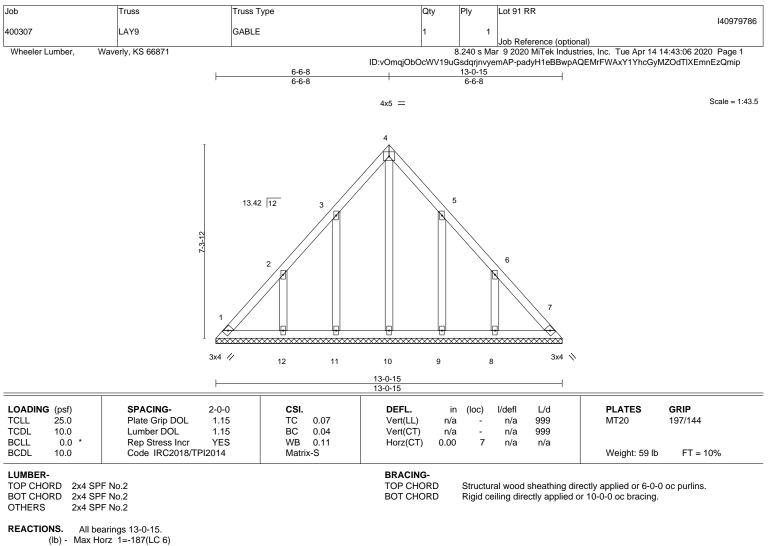






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Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-133(LC 8), 12=-164(LC 8), 9=-132(LC 9), 8=-165(LC 9) Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9 except 8=250(LC 16)

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

# NOTES-

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

4) Gable requires continuous bottom chord bearing.

- 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, 7 except (jt=lb) 11=133, 12=164, 9=132, 8=165,
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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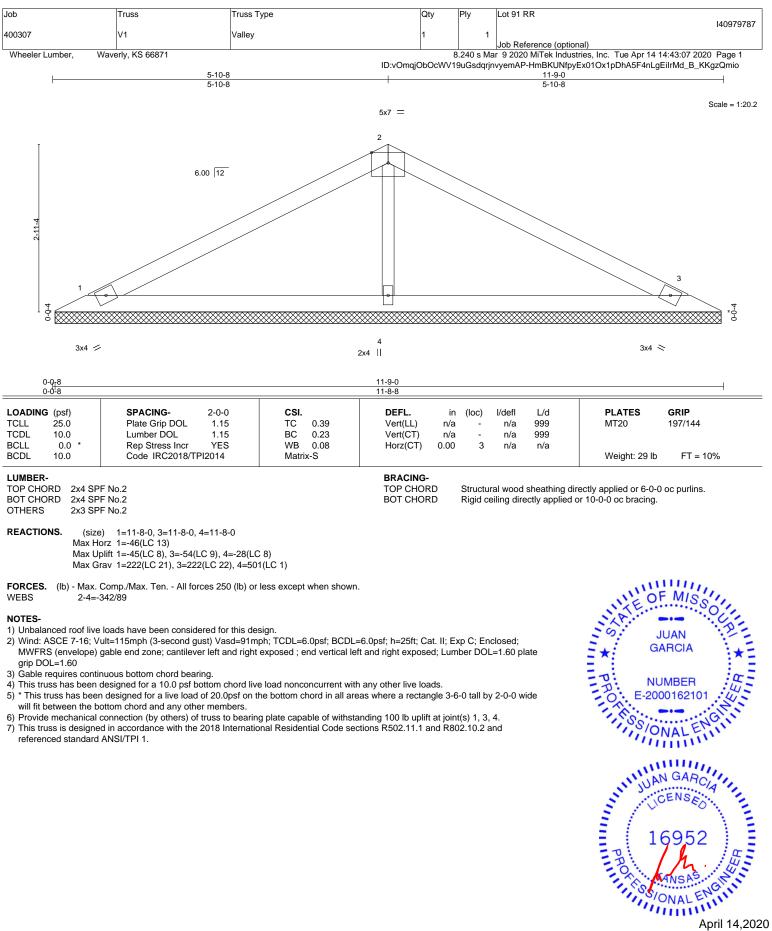
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April 14,2020

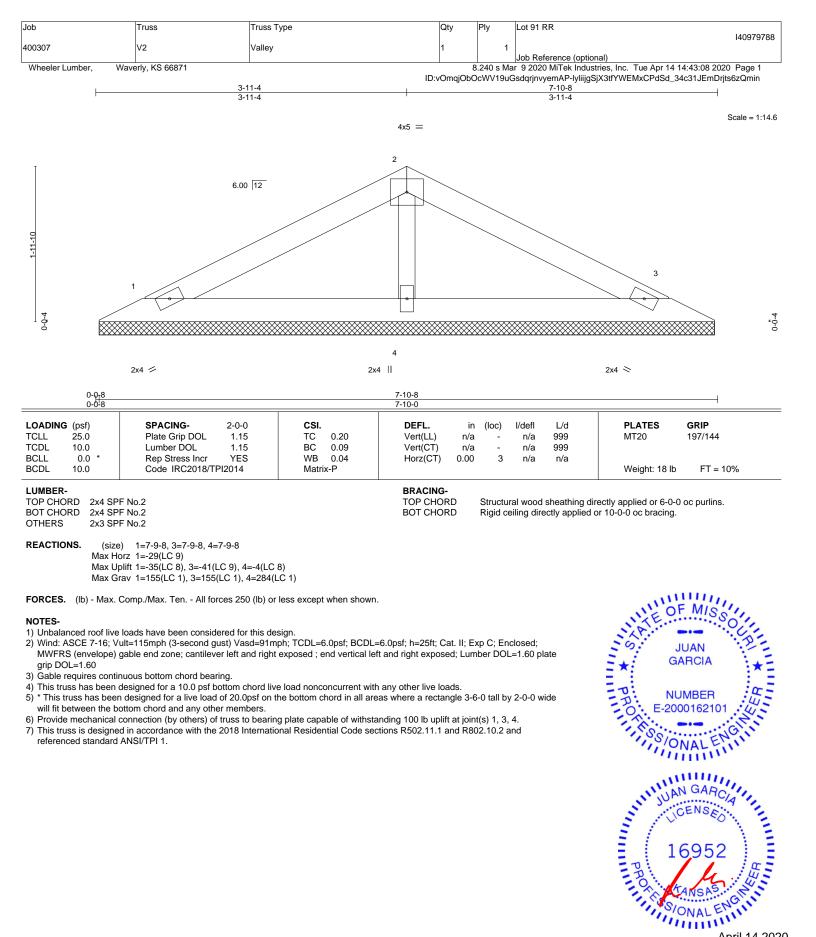
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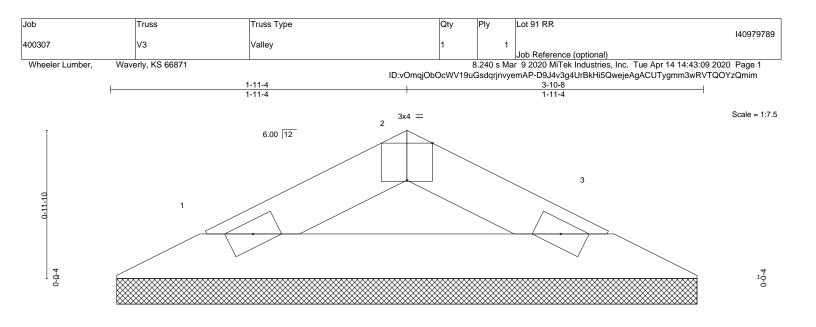
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2x4 ⋍

2x4 📚

Structural wood sheathing directly applied or 3-10-8 oc purlins.

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

| late Offsets (X,Y) [2 | 2:0-2-0,Edge]         |          | 1                         |                       |
|-----------------------|-----------------------|----------|---------------------------|-----------------------|
| OADING (psf)          | <b>SPACING-</b> 2-0-0 | CSI.     | DEFL. in (loc) I/defl L/d | PLATES GRIP           |
| TCLL 25.0             | Plate Grip DOL 1.15   | TC 0.03  | Vert(LL) n/a - n/a 999    | MT20 197/144          |
| CDL 10.0              | Lumber DOL 1.15       | BC 0.07  | 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   |                       |
| 3CDL 10.0             | Code IRC2018/TPI2014  | Matrix-P |                           | Weight: 8 lb FT = 10% |

BOT CHORD

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

REACTIONS. 1=3-9-8, 3=3-9-8 (size) Max Horz 1=12(LC 8) Max Uplift 1=-15(LC 8), 3=-15(LC 9) Max Grav 1=118(LC 1), 3=118(LC 1)

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

# NOTES-

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

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

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.
- 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.



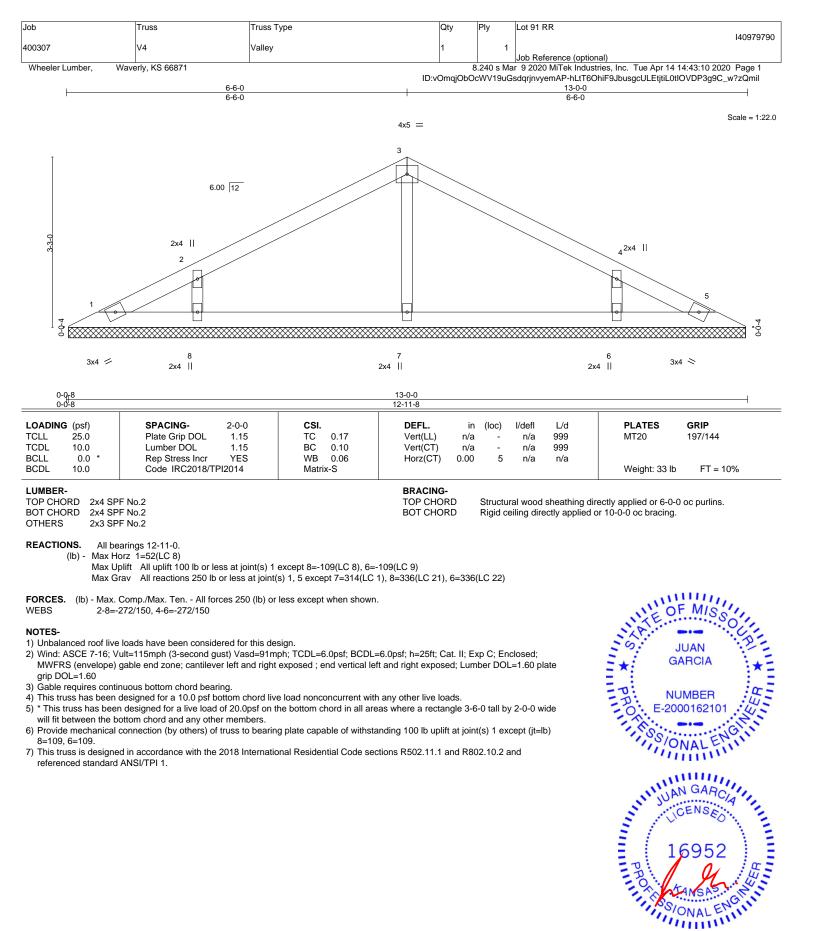
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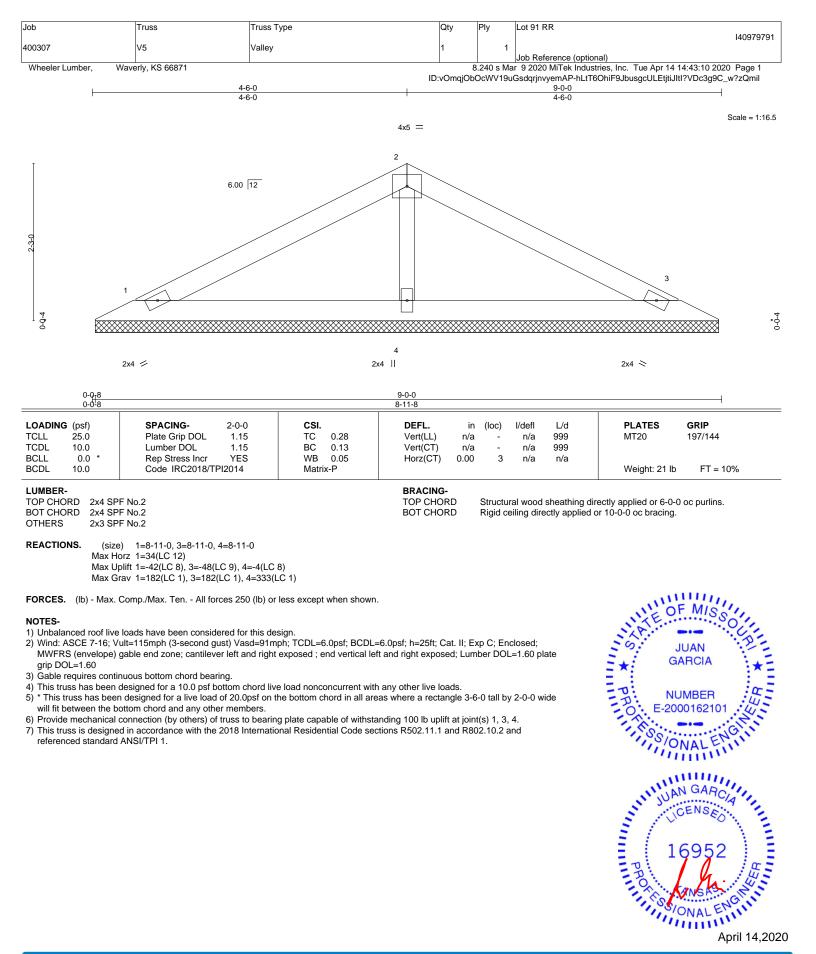
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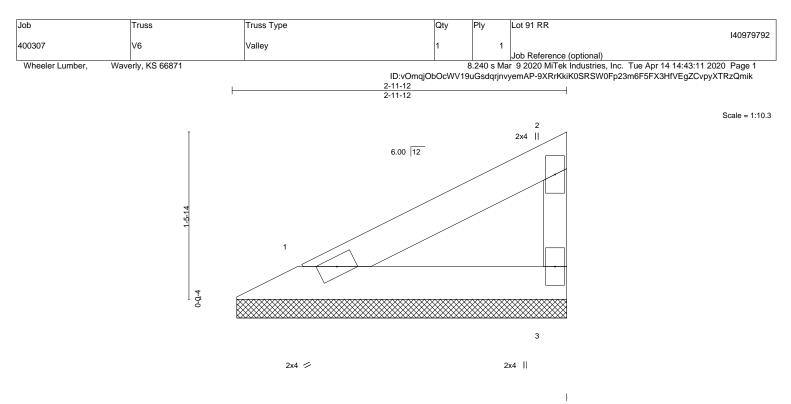
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| LOADING (psf) | SPACING-        | 2-0-0  | CSI.  |      | DEFL.    | in    | (loc) | l/defl | L/d | PLATES       | GRIP     |
|---------------|-----------------|--------|-------|------|----------|-------|-------|--------|-----|--------------|----------|
| TCLL 25.0     | Plate Grip DOL  | 1.15   | TC    | 0.09 | Vert(LL) | n/a   | -     | n/a    | 999 | MT20         | 197/144  |
| TCDL 10.0     | Lumber DOL      | 1.15   | BC    | 0.05 | 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 IRC2018/1  | PI2014 | Matri | x-P  |          |       |       |        |     | Weight: 7 lb | FT = 10% |

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2 REACTIONS.

1=2-11-4, 3=2-11-4 (size) Max Horz 1=47(LC 7) Max Uplift 1=-13(LC 8), 3=-25(LC 8) Max Grav 1=101(LC 1), 3=101(LC 1)

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

# NOTES-

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

2) 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 2-11-12 oc purlins,

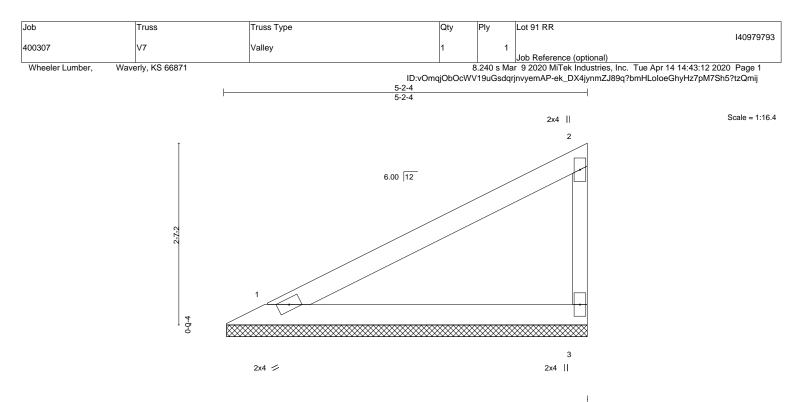
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

April 14,2020

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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 0.38  | Vert(LL) n/a   | -     | n/a    | 999 | MT20          | 197/144  |
| TCDL 10.0     | Lumber DOL 1.15      | BC 0.20  | 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: 13 lb | FT = 10% |

BOT CHORD

LUMBER-

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

2x3 SPF No.2

REACTIONS. 1=5-1-12, 3=5-1-12 (size) Max Horz 1=93(LC 5) Max Uplift 1=-26(LC 8), 3=-49(LC 8) Max Grav 1=200(LC 1), 3=200(LC 1)

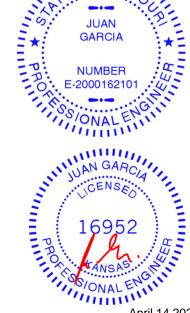
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

# NOTES-

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

2) 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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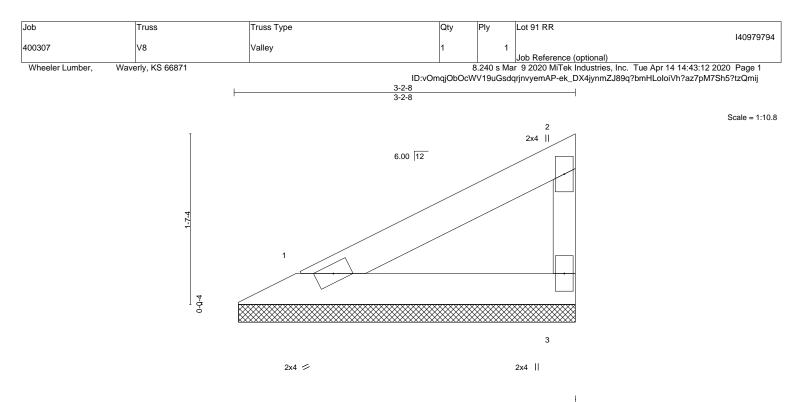
Structural wood sheathing directly applied or 5-2-4 oc purlins,

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

except end verticals.



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| LOADING (psf) | <b>SPACING-</b> 2-0-0 | CSI.     | DEFL. in (loc)   | l/defl L/d | PLATES GRIP           |
|---------------|-----------------------|----------|------------------|------------|-----------------------|
| TCLL 25.0     | Plate Grip DOL 1.15   | TC 0.11  | Vert(LL) n/a -   | n/a 999    | MT20 197/144          |
| TCDL 10.0     | Lumber DOL 1.15       | BC 0.06  | 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: 8 lb FT = 10% |

BOT CHORD

LUMBER-

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

REACTIONS. 1=3-2-0, 3=3-2-0 (size) Max Horz 1=52(LC 7)

Max Uplift 1=-14(LC 8), 3=-27(LC 8) Max Grav 1=111(LC 1), 3=111(LC 1)

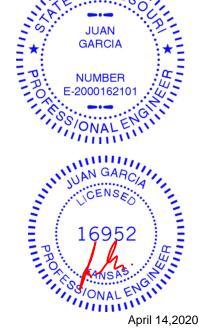
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

# NOTES-

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

2) 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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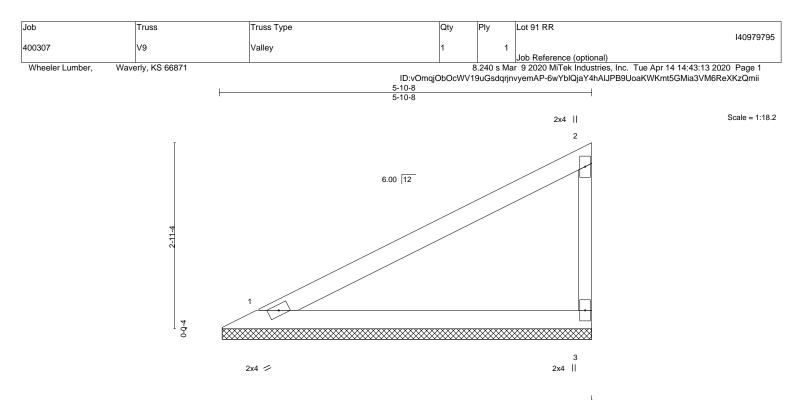
Structural wood sheathing directly applied or 3-2-8 oc purlins,

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

except end verticals.

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| OADING (psf) | SPACING- 2-0-0       | CSI.     | DEFL. in (le   | oc) I/defl L/d | PLATES GRIP            |
|--------------|----------------------|----------|----------------|----------------|------------------------|
| TCLL 25.0    | Plate Grip DOL 1.15  | TC 0.51  | Vert(LL) n/a   | - n/a 999      | MT20 197/144           |
| TCDL 10.0    | Lumber DOL 1.15      | BC 0.28  | 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      |                        |
| 3CDL 10.0    | Code IRC2018/TPI2014 | Matrix-P |                |                | Weight: 15 lb FT = 10% |

BOT CHORD

LUMBER-

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

2x3 SPF No.2 REACTIONS. (size)

1=5-10-0, 3=5-10-0 Max Horz 1=107(LC 5) Max Uplift 1=-30(LC 8), 3=-57(LC 8) Max Grav 1=231(LC 1), 3=231(LC 1)

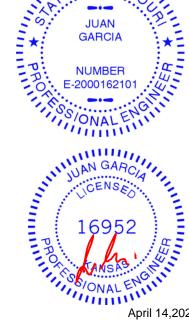
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

# NOTES-

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

2) 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.
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- 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 5-10-8 oc purlins,

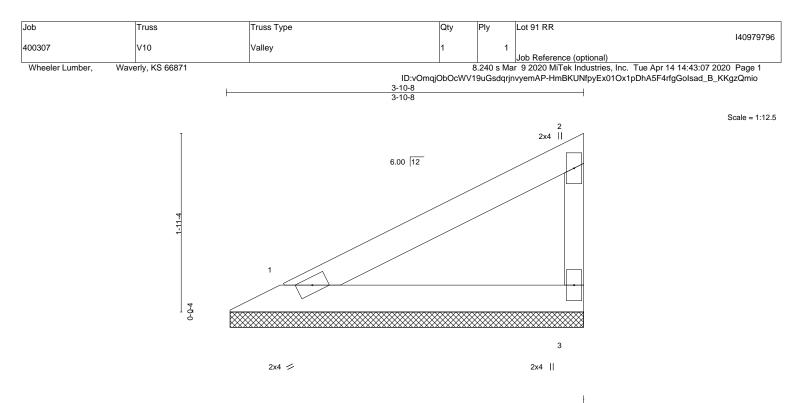
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



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| OADING (psf) | <b>SPACING-</b> 2-0-0 | CSI.     | DEFL. ir       | (loc) | l/defl | L/d | PLATES GRIP            |
|--------------|-----------------------|----------|----------------|-------|--------|-----|------------------------|
| TCLL 25.0    | Plate Grip DOL 1.15   | TC 0.18  | Vert(LL) n/a   | -     | n/a    | 999 | MT20 197/144           |
| TCDL 10.0    | Lumber DOL 1.15       | BC 0.10  | Vert(CT) n/a   | -     | n/a    | 999 |                        |
| 3CLL 0.0 *   | Rep Stress Incr YES   | WB 0.00  | Horz(CT) -0.00 | 3     | n/a    | n/a |                        |
| 3CDL 10.0    | Code IRC2018/TPI2014  | Matrix-P |                |       |        |     | Weight: 10 lb FT = 10% |

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2 REACTIONS. 1=3-10-0, 3=3-10-0 (size)

Max Horz 1=66(LC 5) Max Uplift 1=-18(LC 8), 3=-35(LC 8) Max Grav 1=141(LC 1), 3=141(LC 1)

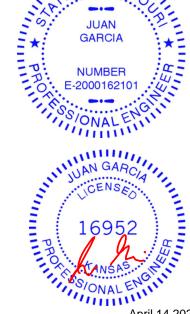
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

# 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

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Structural wood sheathing directly applied or 3-10-8 oc purlins,

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