

# RE: 241117-A

Clayton Builder-P240931-Lot 186- 3221 SW Arboridge Cir

# Site Information:

Customer:Premier Building SupplyProject Name:241117-ALot/Block:186Model:Address:3221 SW Arboridge CirSubdivision:City:Lee's SummitState:MO

City: Lee's Summit State: MO General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special

Loading Conditions):

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 Roof Load: 45.0 psf Design Program: MiTek 20/20 8.8 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 29 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal#     | Truss Name | Date     | No. | Seal#     | Truss Name | Date     |
|-----|-----------|------------|----------|-----|-----------|------------|----------|
| 1   | R86009690 | D03        | 1/3/2025 | 21  | R86009710 | VA5        | 1/3/2025 |
| 2   | R86009691 | A03        | 1/3/2025 | 22  | R86009711 | VA6        | 1/3/2025 |
| 3   | R86009692 | C01        | 1/3/2025 | 23  | R86009712 | C03        | 1/3/2025 |
| 4   | R86009693 | VA9        | 1/3/2025 | 24  | R86009713 | A01        | 1/3/2025 |
| 5   | R86009694 | D01        | 1/3/2025 | 25  | R86009714 | VA1        | 1/3/2025 |
| 6   | R86009695 | E01        | 1/3/2025 | 26  | R86009715 | VA10       | 1/3/2025 |
| 7   | R86009696 | A06        | 1/3/2025 | 27  | R86009716 | VA11       | 1/3/2025 |
| 8   | R86009697 | B02        | 1/3/2025 | 28  | R86009717 | VA12       | 1/3/2025 |
| 9   | R86009698 | VA8        | 1/3/2025 | 29  | R86009718 | VA13       | 1/3/2025 |
| 10  | R86009699 | B01        | 1/3/2025 |     |           |            |          |
| 11  | R86009700 | A05        | 1/3/2025 |     |           |            |          |
| 12  | R86009701 | D02        | 1/3/2025 |     |           |            |          |
| 13  | R86009702 | C02        | 1/3/2025 |     |           |            |          |
| 14  | R86009703 | VA7        | 1/3/2025 |     |           |            |          |
| 15  | R86009704 | D04        | 1/3/2025 |     |           |            |          |
| 16  | R86009705 | A04        | 1/3/2025 |     |           |            |          |
| 17  | R86009706 | VA2        | 1/3/2025 |     |           |            |          |
| 18  | R86009707 | VA3        | 1/3/2025 |     |           |            |          |
| 19  | R86009708 | A02        | 1/3/2025 |     |           |            |          |
| 20  | R86009709 | VA4        | 1/3/2025 |     |           |            |          |

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

based on the parameters provided by Direct Lumber of Colorado.

Truss Design Engineer's Name: Pace, Adam

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



Pace, Adam

|          |       |              |     |     |                         | RELEASE FOR CONSTRUCTION  |
|----------|-------|--------------|-----|-----|-------------------------|---|
| Job      | Truss | Truss Type   | Qty | Ply | Clayton Builder-P24093  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A | D03   | Roof Special | 4   | 1   | Job Reference (optional | R86009690<br>LEE'S SUMMIT, MISSOURI   |
|          |       |              |     |     |                         |   |

Run: 8.83 E Dec 4 2024 Print: 8.830 E Dec 4 2024 MiTek Industries, Inc. Fi Jan 03 35240/07/26325 ID:QW6k5EgxtVnsDJG10eWDQzylxVb-xl0E8ZpVRB9ZkQFqiy9xcxyT0iN9ph cGCeOsFzzz2Jr





Scale = 1:80.8

## Plate Offsets (X, Y): [1:Edge,0-1-12], [8:0-3-4,Edge], [9:Edge,0-1-12]

| Loading<br>TCLL (roof)  |  | (psf)<br>25.0   | Spacing<br>Plate Grip DOL   | 2-0-0<br>1.15<br>1.15      |   | CSI<br>TC<br>BC  | 0.82   | DEFL<br>Vert(LL)  | in<br>-0.05<br>-0.12      | (loc)<br>14-16 | l/defl<br>>999 | L/d<br>240<br>180 | PLATES<br>MT20 | <b>GRIP</b><br>197/144 |
|---|--|---|---|----------------------------|---|--|--|---|---------------------------|----------------|----------------|-------------------|----------------|------------------------|
| BCLL  |  | 0.0*  | Rep Stress Incr   | NO                         |   | WB   | 0.19   | Horz(CT)  | 0.01                      | 9              | n/a            | n/a               |                |                        |
| BCDL  |  | 10.0  | Code  | IRC2018                    | 3/TPI2014   | Matrix-S   |  |   |                           |                |                |                   | Weight: 145 lb | FT = 20%               |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD                                     | 2x4 SPF No<br>2x4 SPF No<br>1650F 1.5E<br>2x4 SPF No<br>Structural v<br>4-3-12 oc p<br>Rigid ceiling | 0.2<br>5.2 *Exce<br>5, 15-12:2<br>5.2<br>vood shea<br>purlins, ea<br>g directly | pt* 17-15:2x6 SPF<br>x6 SPF 2100F 1.8E<br>athing directly applied<br>xcept end verticals.<br>applied or 10-0-0 oc   | 2)<br>I or                 | Wind: ASCE<br>Vasd=91mph<br>Ke=1.00; Car<br>exterior zone<br>Interior (1) 5-<br>18-6-0, Interi<br>and right exp<br>C for membe<br>shown; Lumb | 7-16; Vult=115mpl<br>; TCDL=6.0psf; BC<br>t. II; Exp C; Enclose<br>and C-C Exterior(<br>4-14 to 13-6-0, Ext<br>or (1) 18-6-0 to 27-<br>osed ; end vertical<br>rs and forces & MV<br>per DOL=1.60 plate | n (3-sec<br>CDL=6.0<br>ed; MW<br>2E) 0-4<br>terior(2I<br>8-8 zor<br>left and<br>VFRS f<br>e grip D | cond gust)<br>Dpsf; h=35ft;<br>FRS (envelop<br>-14 to 5-4-14<br>R) 13-6-0 to<br>he; cantilever<br>d right expose<br>or reactions<br>OL=1.60 | pe)<br>,<br>left<br>ed;C- |                |                |                   |                |                        |
| WEBS<br>REACTIONS   | bracing.<br>1 Row at m<br>(Ib/size)<br>1<br>Max Horiz<br>Max Uplift<br>1                             | hidpt<br>9=444/0-1<br>17=907/ M<br>17=-302 (1<br>9=-112 (L<br>17=-147 (1        | 2-14<br>-8, 13=1106/0-5-8,<br>/lechanical<br>LC 8)<br>C 13), 13=-92 (LC 13<br>LC 12)  | 3)<br>4)<br>),             | This truss ha<br>chord live loa<br>* This truss h<br>on the botton<br>3-06-00 tall b<br>chord and an  | s been designed for<br>ad nonconcurrent w<br>has been designed<br>in chord in all areas<br>by 2-00-00 wide will<br>by other members.   | or a 10.0<br>vith any<br>for a liv<br>where<br>fit betv  | 0 psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>veen the botto   | ds.<br>)psf<br>om         |                |                |                   |                |                        |
| FORCES  | (lb) - Max. (  | Comp./Ma  | ax. Ten All forces 2  | 50 5)                      | 1.8E, Joint 9   | SPF No.2 .   | ioint 13   | SPF 2100F   |                           |                |                |                   |                |                        |
| TOP CHORD   | (ID) of less<br>1-2=-1169/2<br>4-5=-557/2<br>7-8=-436/1  | except wi<br>218, 2-3=<br>42, 5-6=-7<br>46, 1-17=                               | nen snown.<br>-707/215, 3-4=-557/2<br>707/202, 6-7=-271/19<br>-858/177, 8-9=-408/1  | 6)<br>256, 7)<br>95,<br>31 | Refer to girde<br>Bearing at jo<br>using ANSI/T   | er(s) for truss to tru<br>int(s) 9 considers p<br>PI 1 angle to grain  | ss conr<br>arallel t<br>formula  | ections.<br>o grain value<br>a. Building  | !                         |                |                |                   |                |                        |
| BOT CHORD   | 16-17=-273<br>14-15=-198<br>10-11=-56/3  | 3/369, 15-<br>3/973, 6-1<br>300   | 16=-198/973,<br>2=-847/140,   | 8)                         | Provide mech<br>bearing plate   | hanical connection<br>at joint(s) 9.   | (by oth  | ers) of truss t   | 0                         |                |                |                   |                | - CDD                  |
| WEBS  | 2-14=-584/2<br>6-14=-61/4  | 278, 4-14<br>14, 1-16=  | =-106/300,<br>-60/723   | 3)                         | bearing plate   | capable of withsta   | nding 1  | 47 lb uplift at<br>lift at joint 9  | joint                     |                |                |                   | TE OF M        | AISSO .                |
| b-14=-b1/414, 1-1b=-b0/723<br>NOTES 10)<br>1) Unbalanced roof live loads have been considered for<br>this design. |  |   | 0) This truss is designed in accordance with the 2018<br>International Residential Code sections R502.11.1 and<br>R802.10.2 and referenced standard ANSI/TPI 1. |                            |   |  |  |   |                           |                |                |                   |                |                        |

this design.

LOAD CASE(S) Standard



January 3,2025



|          |       |              |     |     |                         | RELEASE FOR CONSTRUCTION  |
|----------|-------|--------------|-----|-----|-------------------------|---|
| Job      | Truss | Truss Type   | Qty | Ply | Clayton Builder-P24093  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A | A03   | Roof Special | 2   | 1   | Job Reference (optional | R86009691<br>LEE'S SUMMIT, MISSOURI   |
|          |       | ·            |     |     |                         |   |

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Te Dec 3 05:507/20:25 ID:W0flLv5kO0bX8neai7o\_QiylyrZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J42w2?f





Scale = 1:86.1

## Plate Offsets (X, Y): [2:0-1-5,0-2-6], [12:0-2-8,0-2-4], [14:Edge,0-3-8]

| Loading             | (psf)  | Spacing   | 2-0-0      |  | csi  |  | DEFL  | in                   | (loc) | l/defl | L/d  | PLATES         | GRIP     |  |
|---------------------|--|---|------------|--|--|--|---|----------------------|-------|--------|------|----------------|----------|--|
| TCLL (roof)         | 25.0   | Plate Grip DOL  | 1.15       |  | тс   | 1.00                                       | Vert(LL)                                      | -0.28                | 14-16 | >999   | 240  | MT20           | 197/144  |  |
| TCDL                | 10.0   | Lumber DOL  | 1.15       |  | BC   | 0.86                                       | Vert(CT)                                      | -0.60                | 14-16 | >563   | 180  |                |          |  |
| BCLL                | 0.0*   | Rep Stress Incr   | NO         |  | WB   | 0.96                                       | Horz(CT)                                      | 0.09                 | 9     | n/a    | n/a  |                |          |  |
| BCDL                | 10.0   | Code  | IRC2018    | 3/TPI2014  | Matrix-S   |  | - (- )  |                      |       |        |      | Weight: 170 lb | FT = 20% |  |
| LUMBER<br>TOP CHORD | 2x4 SPF 1650F 1.5E   | = *Except* 7-8:2x4 S  | 2)<br>PF   | Wind: ASCE<br>Vasd=91mpt   | 7-16; Vult=115mpl<br>n; TCDL=6.0psf; B0  | h (3-sec<br>CDL=6.(                        | ond gust)<br>Dpsf; h=35ft;                    | ,                    |       |        |      |                |          |  |
| BOT CHORD<br>WEBS   | No.2<br>2x4 SPF No.2 *Exce<br>1.5E<br>2x4 SPF No.2                                       | pt* 15-2:2x4 SPF 16   | 50F        | Ke=1.00; Ca<br>exterior zone<br>Interior (1) 4-<br>zone; cantile | t. II; EXP C; Enclose<br>and C-C Exterior(<br>1-8 to 25-6-0, Exterver<br>ver left and right exterver | ed; MVV<br>2E) -0-1<br>erior(2E)<br>(posed | 0-8 to 4-1-8,<br>25-6-0 to 28<br>end vertical | pe)<br>3-4-4<br>left |       |        |      |                |          |  |
| SLIDER              | Left 2x4 WW Stud   | 3-4-4   |            | exposed;C-C  | for members and  | forces &                                   | & MWFRS fo                                    | r                    |       |        |      |                |          |  |
| BRACING             |  |   |            | reactions sho  | own; Lumber DOL=   | =1.60 pla                                  | ate grip                                      |                      |       |        |      |                |          |  |
| TOP CHORD           | Structural wood sheat  | athing directly applie  | ed, 3)     | DOL=1.60<br>This truss ha  | s been designed fo   | or a 10.0                                  | ) psf bottom                                  |                      |       |        |      |                |          |  |
| BOT CHORD           | Rigid ceiling directly   | applied or 8-6-10 oc  | ; 4)       | chord live loa<br>* This truss h                                 | ad nonconcurrent w<br>has been designed  | /ith any<br>for a liv                      | other live loa<br>e load of 20.               | ids.<br>Opsf         |       |        |      |                |          |  |
| WEBS                | 1 Row at midpt   | 8-9, 6-12   |            | on the bottor  | n chord in all areas   | where                                      | a rectangle                                   |                      |       |        |      |                |          |  |
| REACTIONS           | (size) 2=0-5-8, 9  | 9=0-5-8   |            | 3-06-00 tall b   | y 2-00-00 wide wil   | l fit betv                                 | veen the bott                                 | om                   |       |        |      |                |          |  |
|                     | Max Horiz 2=450 (LC  | C 12)   | 5)         | Bearings are   | assumed to be: Ic  | vint 2 SI                                  | DE 1650E 1 6                                  | Ē                    |       |        |      |                |          |  |
|                     | Max Uplift 2=-216 (Le  | C 12), 9=-307 (LC 1)  | 2) 5)      | Joint 9 SPF I  | No.2 .   |  | -F 1050F 1.0                                  | ,                    |       |        |      |                |          |  |
|                     |  | LC 1), 9=1276 (LC 1)  | 6)         | Provide mec  | hanical connection   | (by oth                                    | ers) of truss                                 | to                   |       |        |      |                |          |  |
| FURCES              | (ID) - Maximum Com<br>Tension  | pression/iviaximum  |            | 2 and 307 lb   | e capable of withsta<br>uplift at joint 9.   | inding 2                                   | 16 lb uplift a                                | t joint              |       |        |      |                |          |  |
| TOP CHORD           | 1-2=0/0, 2-3=-2542/3<br>5-6=-862/169, 6-7=-4<br>8-9=-1242/324                            | 329, 3-5=-1772/260,<br>462/133, 7-8=-443/1                          | 7)<br>30,  | This truss is<br>International<br>R802 10 2 ar                   | designed in accord<br>Residential Code s<br>ad referenced stan                                       | lance w<br>sections<br>dard AN             | ith the 2018<br>R502.11.1 a<br>ISI/TPI 1      | and                  |       |        |      |                |          |  |
| BOT CHORD           | 13-14=0/162, 6-13=-<br>12-13=-204/708, 2-1<br>16-17=-676/2043, 14<br>9-10=0/9            | -223/927,<br>7=-646/2204,<br>4-16=0/102, 10-11=0                    | LC<br>)/0, | AD CASE(S)   | Standard   |  |   |                      |       |        |      | TE OF M        | AISSO    |  |
| WEBS                | 3-17=0/342, 3-16=-6<br>7-12=-52/215, 5-16=<br>5-13=-844/290, 13-1<br>6-12=-1127/358, 9-1 | 85/340, 10-12=0/68<br>0/518, 8-12=-278/10<br>6=-443/1281,<br>2=-9/0 | ,<br>)59,  |  |  |  |   |                      |       |        |      | ADA<br>PAC     | M CREW   |  |
| NOTES               |  |   |            |  |  |  |   |                      |       |        | 8    |                |          |  |
| 1) Unbalance        | ed roof live loads have  | been considered for   |            |  |  |  |   |                      |       |        | 19-0 |                | En tal   |  |

this design.



OFF

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|   |   |  |  |   |  |  |  |   | <u>Г</u>   | RELEASE  | FOR CONSTRUCTION   |
|---|---|--|--|---|--|--|--|---|--|--|--|
| Job   | Trus  | 3  | Truss Type                                     |   | Qty  | Ply  | Clayt  | on Builder-P2   | 4093 <sup>-</sup> -  | AS NOTE<br>Lot 186- 3221_S   | D FOR PLAN REVIEW  |
| 241117-A  | C01   |  | Roof Special Sup                               | ported Gable  | 1  | 1  |  | oforanca (an  | tional   | LEE'S  | R86009692  |
| Direct Lumber o   | f Colorado, Denver, CO  | - 80221,   |  | Run: 8.83 S Dec   | 4 2024 Prir  | nt: 8.830 S Dec  | 2024 N   | iTek Industries,  | Inc. The   | e Dec 3 07:50:52   | 7/2025   |
|   |   |  |  | ID:qSk_5v4wP0M  | ITNDrG3iZE   | ACylz8x-RfC?   | PsB70Hq3                                       | NSgPqnL8w3ul  | TXbG <mark>F</mark> N  | WrCDoi794zJC?f   | 5772025  |
|   |   | -0-10-8  | 10.4   |   |  |  |  | 00 5 0  |  | 31-3-8   |  |
|   |   |  | 16-4-  | 14  |  |  |  | <u> </u>  |  |  |  |
|   |   | 0-10-8   |  |   | 30-5-0   |  |  |   |  | 0-10-8   |  |
| Scale = 1:67.3  |   |  |  |   |  |  |  |   |  |  | 0  |
| Plate Offsets (   | X, Y): [2:0-2-3,0-0-3   | 3], [7:0-2-8,0-3-0], [20:  | 0-2-3,0-0-3]                                   |   |  |  |  |   |  |  |  |
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (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                               | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC2018/TPI2014 | CSI<br>TC<br>BC<br>WB<br>Matrix-S   | 0.07 V<br>0.05 V<br>0.14 H   | DEFL<br>/ert(LL)<br>/ert(CT)<br>łorz(CT)   | in 0.00 2<br>0.00 2<br>0.01                    | loc) l/defl<br>2-39 >999<br>2-39 >999<br>20 n/a   | L/d<br>240<br>180<br>n/a   | PLATES<br>MT20<br>Weight: 139 lb   | <b>GRIP</b><br>197/144<br>FT = 20%   |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>SLIDER<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2<br>Left 2x4 WW Stud<br>Stud 1-6-8<br>Structural wood sł<br>6-0-0 oc purlins.<br>Rigid ceiling direct | 1-6-7, Right 2x4 WV<br>leathing directly applie<br>ly applied or 10-0-0 oc                       | TOP CHORD                                      | 1-2=0/0, 2-4=-168//<br>5-6=-85/108, 6-8=-<br>9-10=-81/236, 10-1<br>12-13=-82/236, 13-<br>15-16=-52/146, 16-<br>17-18=-37/50, 18-2<br>2-39=-14/67, 38-39<br>36-37=-14/67, 35-3<br>32-33=-15/69, 28-3<br>29-30=-15/69, 28-3   | 84, 4-5=-1<br>66/150, 8-<br>1=-97/278<br>15=-65/18<br>17=-37/10<br>0=-67/22,<br>=-14/67, 3<br>6=-15/69,<br>2=-15/69,<br>9=-13/57 | 07/89,<br>9=-67/192,<br>11-12=-97,<br>88,<br>13,<br>20-21=0/0<br>37-38=-14/67<br>33-35=-15/6<br>30-31=-15/6<br>30-31=-15/6 | 6)<br>(278, 7)<br>(, 8)<br>(, 9)<br>(9,<br>(9, | This truss hi<br>chord live lo<br>* This truss<br>on the botto<br>3-06-00 tall<br>chord and a<br>All bearings<br>Provide med<br>bearing plat<br>2, 30 lb uplit<br>at joint 33.6 | as been<br>ad non<br>has be<br>m chor<br>by 2-00<br>ny othe<br>are as<br>chanica<br>e capal<br>t at joir | n designed for a<br>concurrent with a<br>en designed for a<br>d in all areas wh<br>2-00 wide will fit b<br>er members.<br>sumed to be SPF<br>al connection (by<br>ble of withstandir<br>nt 20, 56 lb uplift<br>at joint 25, 27 | 10.0 psf bottom<br>any other live loads.<br>a live load of 20.0psf<br>ere a rectangle<br>between the bottom<br>F No.2 .<br>others) of truss to<br>ng 35 lb uplift at joint<br>at joint 32, 53 lb uplift<br>bu uplift at joint 36 |
| REACTIONS   | bracing.<br>(size) 2=21-4-<br>23=8-1 <sup>-</sup><br>28=21-4<br>31=21-4   | 8, 20=8-11-0, 22=8-11<br>-0, 24=8-11-0, 25=8-1<br>-8, 29=21-4-8, 30=21-<br>-8, 32=21-4-8, 33=21- | -0,<br>1-0, WEBS<br>4-8, 4-8.                  | 32-33=-13/03, 31-32=-13/03, 30-31=-13/03, 20-31=-13/03, |  |  |  |   |  |  | io apint at joint 30,<br>joint 38, 96 lb uplift at<br>b uplift at joint 29, 36<br>t 24, 53 lb uplift at  |

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.

### LOAD CASE(S) Standard



35=21-4-8, 36=21-4-8, 37=21-4-8,

22=-66 (LC 13), 23=-53 (LC 13),

24=-59 (LC 13), 25=-36 (LC 13),

29=-116 (LC 13), 30=-49 (LC 13),

32=-56 (LC 12), 33=-53 (LC 12),

35=-67 (LC 12), 36=-37 (LC 12),

37=-63 (LC 12), 38=-45 (LC 12),

22=180 (LC 26), 23=180 (LC 1),

24=186 (LC 26), 25=168 (LC 1),

28=42 (LC 13), 29=168 (LC 26),

30=192 (LC 26), 31=189 (LC 22),

32=191 (LC 25), 33=173 (LC 1),

35=203 (LC 25), 36=149 (LC 1),

37=194 (LC 25), 38=171 (LC 1),

38=21-4-8, 39=21-4-8

Max Uplift 2=-35 (LC 13), 20=-30 (LC 9),

39=-96 (LC 12)

39=208 (LC 25)

Tension

(lb) - Maximum Compression/Maximum

FORCES

Max Grav 2=172 (LC 1), 20=156 (LC 1),

Max Horiz 2=161 (LC 12)

 Unbalanced roof live loads have been considered for this design.

18-22=-136/148

5-38=-134/104, 4-39=-157/181,

12-30=-150/86, 27-29=-137/115,

13-27=-142/95, 15-25=-133/84,

16-24=-145/93, 17-23=-141/113,

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-4-14, Exterior(2N) 4-4-14 to 16-4-14, Corner(3R) 16-4-14 to 21-4-14, Exterior(2N) 21-4-14 to 31-3-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

 Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 All plates are 2x4 (||) MT20 unless otherwise indicated.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of trusses path possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses shown, see **ANSI/TPI Quality** Criteria and DSR-22 available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com) 400 Sunrise Ave., Suite 270 Roseville, CA 95661 916.755.3571 / MiTek-US.com

|              |            |       |     |                         | RELEASE FOR CONSTRUCTION  |
|--------------|------------|-------|-----|-------------------------|---|
| Job Truss    | Truss Type | Qty F | Ply | Clayton Builder-P24093  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A VA9 | Valley     | 1 1   | 1   | Job Reference (optional | LEE'S SUMMIT, MISSOURI  |





7-11-7

Scale = 1:24.4

FORCES

| Loading  | (psf)  | Spacing                  | 2-0-0                     |   | CSI   |   | DEFL  | in                        | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--|--|--------------------------|---------------------------|---|---|---|---|---------------------------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 25.0   | Plate Grip DOL           | 1.15                      |   | TC  | 0.20  | Vert(LL)  | n/a                       | -     | n/a    | 999 | MT20          | 197/144  |
| TCDL   | 10.0   | Lumber DOL               | 1.15                      |   | BC  | 0.12  | Vert(CT)  | n/a                       | -     | n/a    | 999 |               |          |
| BCLL   | 0.0*   | Rep Stress Incr          | NO                        |   | WB  | 0.05  | Horz(CT)  | 0.00                      | 5     | n/a    | n/a |               |          |
| BCDL   | 10.0   | Code                     | IRC2018                   | 3/TPI2014   | Matrix-P  |   |   |                           |       |        |     | Weight: 24 lb | FT = 20% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD | 2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2<br>Structural wood she<br>6-0-0 oc purlins, exe | athing directly applied  | 6)<br>7)<br>d or 8)<br>9) | This truss ha<br>chord live loa<br>* This truss h<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>All bearings<br>Provide mec | as been designe<br>ad nonconcurre<br>has been design<br>n chord in all ar<br>by 2-00-00 wide<br>hy other membe<br>are assumed to<br>hanical connec<br>a canable of witi | ed for a 10.<br>Int with any<br>ned for a liv<br>reas where<br>will fit betw<br>ers.<br>be SPF No<br>tion (by other<br>heteroding C | 0 psf bottom<br>other live loa<br>e load of 20.1<br>a rectangle<br>ween the bott<br>0.2.<br>ers) of truss t | ads.<br>Opsf<br>com<br>to |       |        |     |               |          |
| BOT CHORD  | Rigid ceiling directly<br>bracing.   | applied or 10-0-0 oc     |                           | 5 and 107 lb  | uplift at joint 6.  | istanding a   |   | joint                     |       |        |     |               |          |
| REACTIONS  | (size) 1=8-0-1, 5<br>Max Horiz 1=166 (LC   | 5=8-0-1, 6=8-0-1<br>C 9) | 10                        | ) This truss is<br>International<br>R802.10.2 a   | designed in acc<br>Residential Co<br>nd referenced s  | cordance w<br>de sections<br>standard AN  | ith the 2018<br>3 R502.11.1 a<br>ISI/TPI 1.   | and                       |       |        |     |               |          |

LOAD CASE(S) Standard



Max Uplift 5=-98 (LC 9), 6=-107 (LC 12)

Max Grav 1=109 (LC 20), 5=265 (LC 1), 6=370 (LC 1)

(lb) - Maximum Compression/Maximum

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 9-4-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc. 5)



👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not beigh valid for use only with with the 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 property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com) 400 Sunrise Ave., Suite 270 Roseville CA 95661 916.755.3571 / MiTek-US.com

|          |       |                               |     |     |                         | RELEASE FOR CONSTRUCTION  |
|----------|-------|-------------------------------|-----|-----|-------------------------|---|
| Job      | Truss | Truss Type                    | Qty | Ply | Clayton Builder-P24093  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A | D01   | Roof Special Structural Gable | 1   | 1   | Job Reference (optional | R86009694<br>LEE'S SUMMIT, MISSOURI   |
|          |       | -                             |     |     |                         |   |

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Te Dec 3 07:55:56 07/29:25 ID:eDE83pI7?galCQBhaeuZaDyIxQv-RfC?PsB70Hq3NSgPqnL8w3uITXbGK WrCDoi7542J0?





|--|

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (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   | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC2018/T   | PI2014<br>CHORD  | CSI<br>TC<br>BC<br>WB<br>Matrix-S   | 0.21<br>0.25<br>0.14<br>/240, 3-  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>4=-207/197,   | in<br>0.01<br>-0.02<br>0.02                 | (loc)<br>20-21<br>19-20<br>19<br>4) All  | l/defl<br>>999<br>>999<br>n/a   | L/d<br>240<br>180<br>n/a   | PLATES<br>MT20<br>Weight: 166 lb   | GRIP<br>197/144<br>FT = 20%<br>otherwise indic  | cated.  |
|--|--|--|--|--|---|---|---|---|--|---|--|--|---|---|
| TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS | 2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2<br>Structural wood shea<br>6-0-0 oc purlins, exx<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt<br>(size) 19=0-3-8,<br>25=20-0-0<br>32=20-0-0<br>35=20-0-0<br>35=312 (L<br>Max Uplift 19=-97 (L<br>24=-338 ( | athing directly applied<br>sept end verticals.<br>applied or 10-0-0 oc<br>9-27, 8-29, 10-26<br>23=0-3-8, 24=20-0-0,<br>26=20-0-0, 27=20-0,<br>30=20-0-0, 31=20-0,<br>33=20-0-0, 31=20-0,<br>33=20-0-0, 34=20-0<br>C 11)<br>C 13), 23=-492 (LC 1<br>LC 20), 25=-85 (LC 1      | d or BOT (<br>),<br>)-0,<br>)-0,<br>)-0,<br>WEB:<br>3),<br>3),   | CHORD<br>S   | 4-5=-194/197, 5-7=<br>8-9=-225/342, 9-10<br>10-11=-190/267, 1<br>12-13=-112/168, 12<br>15-16=-105/126, 14<br>2-35=-229/159, 17-<br>34-35=-105/146, 3<br>30-31=-105/146, 3<br>30-31=-105/147, 22<br>27-29=-105/147, 22<br>25-26=-105/147, 22<br>23-24=-105/147, 22<br>21-32=-99/289, 13-<br>20-21=-3/242, 19-2<br>21-36=-362/171, 14<br>16-20=0/171, 17-20<br>8-29=-154/90, 7-30<br>5-32=-161/111, 4-3<br>10-26=-157/92, 11. | -173/26<br>=-225/3<br>-12=-11<br>3-15=-9<br>5-17=-3<br>19=-400<br>3-34=-11<br>1-32=-10<br>3-30=-10<br>5-27=-11<br>4-25=-10<br>2-23=-10<br>2-23=-10<br>2-23=-10<br>5-36=-3<br>3)=-16/11<br>=-172/1<br>3=-146/<br>2=5146/ | 4, 7-8=-192/3<br>29,<br>53/206,<br>4/142,<br>76/98, 17-18=<br>5/134<br>05/146,<br>05/147,<br>05/147,<br>05/147,<br>05/147,<br>05/147,<br>22/61,<br>22<br>33/152,<br>40, 9-27=-308<br>24, 6-31=-111<br>96, 3-34=-160 | 811,<br>60/40,<br>6/145,<br>7/80,<br>2/139, | <ol> <li>Trubra</li> <li>Trubra</li> <li>Gal</li> <li>Gal</li> <li>Gal</li> <li>Thi</li> <li>Chc</li> <li>Ti</li> <li>On</li> <li>3-0</li> <li>Chc</li> <li>S-0</li> <li>Chc</li> <li>S-0</li> <li>Chc</li> <li>To</li> <l< td=""><td>ss to be<br/>ced agai<br/>ble studs<br/>s truss h<br/>ord live lc h<br/>his truss<br/>the botto<br/>6-00 tall<br/>ord and a<br/>bearings<br/>vide me<br/>aring plat<br/>97 lb up<br/>iff at join<br/>if at join<br/>if at 3, 89<br/>uplift at jc<br/>t 25, 338</td><td>fully sh<br/>inst late<br/>space<br/>as bee<br/>ad nor<br/>has be<br/>im cho<br/>by 2-0<br/>by 2-0<br/>iny othe<br/>are as<br/>chanica<br/>e capa<br/>lift at jo<br/>t 29, 10<br/>lb uplif<br/>joint 34,<br/>3 lb uplic</td><td>neathed from one<br/>eral movement (i.<br/>d at 2-0-0 oc.<br/>n designed for a<br/>concurrent with i<br/>eran designed for a<br/>rd in all areas wh<br/>0-00 wide will fit t<br/>er members.<br/>sumed to be SPI<br/>al connection (by<br/>ble of withstandii<br/>oint 19, 16 lb uplif<br/>10 lb uplift at joint<br/>14 at joint 32, 63 lb<br/>66 lb uplift at joint<br/>ift at joint 24 and</td><td>face or secure<br/>a. diagonal we<br/>10.0 psf botton<br/>any other live lo<br/>a live load of 20<br/>are a rectangle<br/>between the bo<br/>F No.2.<br/>others) of trust<br/>ing 201 lb uplift<br/>t at joint 27, 66<br/>30, 55 lb uplift<br/>uplift at joint 3<br/>at 26, 85 lb uplift<br/>492 lb uplift at</td><td>ly<br/>b).<br/>n<br/>bads.<br/>J.Opsf<br/>ttom<br/>s to<br/>at joint<br/>b lb<br/>c at<br/>3, 167<br/>ft at<br/>joint</td></l<></ol> | ss to be<br>ced agai<br>ble studs<br>s truss h<br>ord live lc h<br>his truss<br>the botto<br>6-00 tall<br>ord and a<br>bearings<br>vide me<br>aring plat<br>97 lb up<br>iff at join<br>if at join<br>if at 3, 89<br>uplift at jc<br>t 25, 338 | fully sh<br>inst late<br>space<br>as bee<br>ad nor<br>has be<br>im cho<br>by 2-0<br>by 2-0<br>iny othe<br>are as<br>chanica<br>e capa<br>lift at jo<br>t 29, 10<br>lb uplif<br>joint 34,<br>3 lb uplic | neathed from one<br>eral movement (i.<br>d at 2-0-0 oc.<br>n designed for a<br>concurrent with i<br>eran designed for a<br>rd in all areas wh<br>0-00 wide will fit t<br>er members.<br>sumed to be SPI<br>al connection (by<br>ble of withstandii<br>oint 19, 16 lb uplif<br>10 lb uplift at joint<br>14 at joint 32, 63 lb<br>66 lb uplift at joint<br>ift at joint 24 and | face or secure<br>a. diagonal we<br>10.0 psf botton<br>any other live lo<br>a live load of 20<br>are a rectangle<br>between the bo<br>F No.2.<br>others) of trust<br>ing 201 lb uplift<br>t at joint 27, 66<br>30, 55 lb uplift<br>uplift at joint 3<br>at 26, 85 lb uplift<br>492 lb uplift at | ly<br>b).<br>n<br>bads.<br>J.Opsf<br>ttom<br>s to<br>at joint<br>b lb<br>c at<br>3, 167<br>ft at<br>joint |
| FORCES   | 26=-66 (L<br>29=-66 (L<br>31=-55 (L<br>33=-63 (L<br>35=-201 (<br>Max Grav 19=446 (L<br>24=268 (L<br>29=196 (L<br>31=157 (L<br>33=188 (L<br>35=286 (L<br>(lb) - Maximum Com<br>Tension  | C 13), 27=-16 (LC 11<br>C 12), 30=-101 (LC 1<br>C 12), 32=-89 (LC 12<br>C 12), 34=-167 (LC 1<br>LC 8)<br>C 26), 23=880 (LC 2<br>C 13), 25=192 (LC 2<br>C 20), 27=332 (LC 1<br>C 19), 30=211 (LC 1<br>C 19), 32=202 (LC 1<br>C 1), 34=237 (LC 19<br>C 20)<br>pression/Maximum | ),<br>2), NOTE<br>2), 1) U<br>0), tt<br>0), 2) V<br>3), V<br>9), e<br>9), Ir<br>1<br>2<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | ES<br>Jnbalance-<br>nis design<br>Vind: ASC<br>(asd=91m<br>(c=1.00; C<br>xterior 20)<br>xterior 20)<br>8-6-0, Inte<br>nd right e:<br>) for memi<br>hown; Lur | d roof live loads have<br>E 7-16; Vult=115mp<br>ph; TCDL=6.0psf; Bf<br>at. II; Exp C; Enclos<br>re and C-C Exterior(<br>4-1-8 to 13-6-0, Exterior<br>rior (1) 18-6-0 to 29<br>posed; end vertical<br>pers and forces & Min<br>hber DOL=1.60 plate   | e been o<br>h (3-sec<br>CDL=6.0<br>ed; MW<br>2E) -0-1<br>prior(2R)<br>-4-8 zor<br>left and<br>WFRS fit<br>e grip D  | considered for<br>cond gust)<br>Dpsf; h=35ft;<br>FRS (envelop<br>0-8 to 4-1-8,<br>) 13-6-0 to<br>te; cantilever l<br>d right expose<br>or reactions<br>DL=1.60  | r<br>be)<br>left<br>d;C-                    | LOAD   | ornationa<br>02.10.2 a<br>CASE(S)   | I Resid<br>and refe  | ADA  | M<br>IISSOLII.1<br>ANSI/TPI 1.<br>M<br>M<br>DOUBTI  | and   |

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

January 3,2025

ESSIONAL ET



|          |       |                         |     |     |                         | RELEASE FOR CONSTRUCTION  |
|----------|-------|-------------------------|-----|-----|-------------------------|---|
| Job      | Truss | Truss Type              | Qty | Ply | Clayton Builder-P24093  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A | E01   | Common Structural Gable | 1   | 1   | Job Reference (optional | LEE'S SUMMIT, MISSOURI  |
| •        |       |                         |     |     |                         |   |

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. The Dec 3 07:51:5407/26:25 ID:qXqM0fsJv9kuzTbgecUAxgylyHi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J&C?





| Scale = 1:41 |  |
|--------------|--|
|--------------|--|

| Plate C | Offsets | (X, ` | Y): | [2:0-2-14,0-2-0], [6:0-2-14,0-2-0] |
|---------|---------|-------|-----|------------------------------------|
|---------|---------|-------|-----|------------------------------------|

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>10.0<br>0.0*<br>10.0  | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC2018/T                               | PI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-S  | 0.20<br>0.16<br>0.15   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.01<br>-0.02<br>0.00             | (loc)<br>8-9<br>8-9<br>8 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 43 lb | <b>GRIP</b><br>197/144<br>FT = 20% |
|---|--|---|--|---|--|--|---|--|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>JOINTS | 2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2<br>Structural wood she<br>6-0-0 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>1 Brace at Jt(s): 11,<br>12 | athing directly applie<br>cept end verticals.<br>applied or 10-0-0 oc     | 3) T<br>c<br>s<br>4) T<br>b<br>dor 5) C<br>6) T<br>c<br>7) *<br>c<br>3 | Fruss design<br>only. For stu-<br>see Standarc<br>or consult qu<br>Fruss to be froraced again<br>Gable studs<br>Chis truss ha<br>chord live loa<br>This truss ha<br>on the botton<br>3-06-00 tall b | ed for wind loads<br>ds exposed to win<br>I Industry Gable E<br>alified building de<br>ully sheathed from<br>st lateral movement<br>spaced at 2-0-0 o<br>s been designed<br>d nonconcurrent<br>as been designed<br>n chord in all area<br>y 2-00-00 wide w | in the pland<br>nd (norm<br>End Deta<br>esigner as<br>n one face<br>ent (i.e. do<br>c.<br>for a 10.0<br>with any<br>d for a liv<br>as where<br>vill fit betw | ane of the tru<br>al to the face<br>ils as applica<br>s per ANSI/TI<br>e or securely<br>iagonal web)<br>D psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>ween the botto | ss<br>),<br>ble,<br>PI 1.<br>ds.<br>Dpsf |                          |                               |                          |                                 |                                    |
| REACTIONS   | (size) 8=0-3-8, 2<br>Max Horiz 10=-128 (<br>Max Uplift 8=-79 (LC<br>Max Grav 8=463 (LC   | 10=0-3-8<br>LC 10)<br>C 13), 10=-79 (LC 12)<br>C 1), 10=463 (LC 1)        | 8) A<br>9) F<br>b  | chord and an<br>All bearings a<br>Provide mech<br>bearing plate   | y other members<br>are assumed to be<br>nanical connectio<br>capable of withs  | e SPF No<br>n (by oth<br>tanding 7   | o.2 .<br>ers) of truss t<br>'9 lb uplift at j   | o<br>oint                                |                          |                               |                          |                                 |                                    |
| FORCES  | (lb) - Maximum Com<br>Tension  | pression/Maximum  | 10) T  | This truss is   | designed in accor  | rdance w   | ith the 2018  | nd                                       |                          |                               |                          |                                 |                                    |
| TOP CHORD   | 1-2=0/40, 2-3=-383/<br>4-5=-305/152, 5-6=-<br>2-10=-421/219 6-8=   | 110, 3-4=-305/152,<br>383/110, 6-7=0/40,<br>421/219                       | F<br>LOA   | R802.10.2 ar<br>D CASE(S)   | nd referenced star<br>Standard   | ndard AN   | ISI/TPI 1.  | inu                                      |                          |                               |                          |                                 |                                    |
| BOT CHORD<br>WEBS   | 9-10=-114/214, 8-9=<br>4-9=-17/166, 2-11=-<br>9-12=-36/167, 6-12=<br>5-12=-50/53   | 56/140<br>26/164, 9-11=-30/16<br>33/170, 3-11=-50/5                       | 2,<br>3,   |   |  |  |   |  |                          |                               |                          | GSE OF M                        | MISS                               |
| NOTES<br>1) Unbalance<br>this design<br>2) Wind: ASC  | ed roof live loads have  | been considered for   |  |   |  |  |   |  |                          |                               |                          | STATU ADA                       | M                                  |
| _, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,   | o, vait=omph   |   |  |   |  |  |   |  |                          |                               | n 🔺                      |                                 |                                    |

(2) Wind: ASCE 7-16; Vult=115mpn (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 4-6-0, Exterior(2R) 4-6-0 to 9-6-0, Interior (1) 9-6-0 to 9-10-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



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|                                 |                  |                         |                |             |                               | RELEASE FOR CONSTRUCTION  |
|---------------------------------|------------------|-------------------------|----------------|-------------|-------------------------------|---|
| Job                             | Truss            | Truss Type              | Qty            | Ply         | Clayton Builder-P24093        | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A                        | A06              | Common Structural Gable | 1              | 1           | Job Reference (optional       | LEE'S SUMMIT, MISSOURI  |
| Direct Lumber of Colorado, Denv | ver, CO - 80221, | Run: 8.83 S Dec 4 2     | 024 Print: 8.8 | 330 S Dec 4 | 2024 MiTek Industries, Inc. T |   |

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. The Dec 3 07:50:5/07/20:25 ID:p3\_YalrRsmti0cOoak6Mb4ylz2o-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J4cc?





|                |        |        |        |        |        | 51-0-0       |
|----------------|--------|--------|--------|--------|--------|--------------|
|                | 5-2-12 | 13-3-8 | 25-6-0 | 37-8-8 | 45-9-4 | 50-7-12      |
|                | 5-2-12 | 8-0-12 | 12-2-8 | 12-2-8 | 8-0-12 | 4-10-8 0-4-4 |
| Scale = 1:95.3 |        |        |        |        |        | 0-4-4        |

## Plate Offsets (X, Y): [19:0-0-14,0-2-0], [28:0-4-0,0-4-8]

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (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  | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC201 | 8/TPI2014  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-S  | 0.37<br>0.88<br>0.69  | <b>DEFL</b><br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.43<br>-0.75<br>0.12               | (loc)<br>28-30<br>28-30<br>22  | l/defl<br>>999<br>>728<br>n/a   | L/d<br>240<br>180<br>n/a   | PLATES<br>MT20<br>Weight: 321 lb   | <b>GRIP</b><br>197/144<br>FT = 20%   |                             |
|---|---|---|---------------------------------------|--|---|---|---|--|--|---|--|--|--|-----------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>DTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>JOINTS | 2x6 SPF 1650F 1.50<br>2x6 SPF 1650F 1.50<br>2x4 SPF No.2<br>2x4 SPF No.2<br>Structural wood she<br>3-11-14 oc purlins.<br>Rigid ceiling directly<br>bracing, Except:<br>6-0-0 oc bracing: 21<br>1 Row at midpt<br>1 Brace at Jt(s): 32, | E<br>E<br>eathing directly applie<br>y applied or 10-0-0 oc<br>I-22,19-21.<br>16-22, 5-28                                       | W<br>d or<br>;                        | /EBS 6   | 5-28=-139/1300, 18<br>5-28=-139/1300, 18<br>5-31=0/226, 3-30=-4<br>6-40=-3592/438, 4<br>22-41=-3377/429, 5<br>8-32=-472/247, 32<br>33-34=-430/229, 34<br>0-35=-391/311, 10<br>0-35=-391/311, 10<br>0-35=-391/311, 10<br>0-35=-391/311, 10<br>3-38=-1227/391, 25<br>38-39=-136/1303, 1<br>-32=-10/44, 8-33=-<br>27-35=0/344, 11-36<br>3-38=-5/52, 15-39-<br>0-40-07/77 | -21=-34<br>600/32:<br>0-41=-:<br>-30=-5<br>-33=-4:<br>-36=-56<br>37=-73;<br>-38=-1:<br>6-39=-<br>-83/25,<br>=-22/55<br>=-11/6 | 48/131,<br>3,<br>3,<br>304/390,<br>1/999,<br>77/244,<br>90/235,<br>52/69,<br>2/113,<br>33/1325,<br>145/1490,<br>9-34=-10/125<br>5, 12-37=-255<br>8, 24-39=0/2 | 9,<br>9/88,<br>25,                         | <ol> <li>All I</li> <li>Probea</li> <li>22,</li> <li>This</li> <li>Inter</li> <li>R80</li> <li>LOAD (</li> </ol> | bearings<br>vide mer<br>ring plat<br>451 lb u<br>s truss is<br>rnationa<br>)2.10.2 a<br>CASE(S) | are as<br>chanic;<br>e capa<br>plift at<br>desig<br>I Resid<br>ind ref<br>Star | essumed to be SF<br>al connection (b)<br>ble of withstand<br>joint 19 and 357<br>ned in accordan<br>lential Code sec<br>erenced standar<br>ndard | F 1650F 1.5E .<br>r others) of truss<br>ng 429 lb uplift a<br>lb uplift at joint 2<br>we with the 2018<br>tions R502.11.1<br>d ANSI/TPI 1. | to<br>at joint<br>2.<br>and |
| REACTIONS   | 33, 34, 36, 38<br>(size) 2=0-5-8,<br>Max Horiz 2=207 (L<br>2=-357 (L<br>2=-327 (L<br>2=-327 (A<br>2=2-429<br>Max Grav 2=2167 (<br>22=3221   | 19=0-3-8, 22=0-5-8<br>C 12)<br>.C 12), 19=-451 (LC 2<br>(LC 13)<br>LC 2), 19=85 (LC 12)<br>(LC 2)                               | N<br>1)<br>27), 2)<br>,               | OTES<br>) Unbalanced<br>this design.<br>) Wind: ASCE<br>Vasd=91mpt<br>Ke=1.00; Cat   | roof live loads have<br>7-16; Vult=115mph<br>i; TCDL=6.0psf; BC<br>t. II; Exp C; Enclose<br>and C-C Exterior(C  | +1=-120<br>+ been 0<br>1 (3-sec<br>DL=6.0<br>2 (3 - 0-1   | considered fo<br>cond gust)<br>Dpsf; h=35ft;<br>FRS (envelop<br>0-8 to 4-2-10   | r<br>pe)                                   |  |   |  |  |  |                             |
| FORCES  | (lb) - Maximum Con<br>Tension<br>1-2=0/12, 2-3=-445<br>5-6=-2426/495, 6-7<br>7-8=-2330/486, 8-9<br>9-10=-2442/459, 10<br>11-12=-2324/442, 1<br>13-15=-2336/379, 1   | npression/Maximum<br>7/647, 3-5=-3910/587<br>=-2275/494,<br>=-2342/472,<br>-11=-2257/441,<br>2-13=-2278/399,<br>5-16=-2329/348, | 7,<br>3)                              | Interior (1) 4-<br>30-7-2, Interi<br>and right exp<br>C for membe<br>shown; Lumb   | 2-10 to 25-6-0, Ext<br>or (1) 30-7-2 to 51-<br>osed ; end vertical<br>rs and forces & MV<br>per DOL=1.60 plate<br>ed for wind loads in<br>ds exposed to wind  | erior(2F<br>10-8 zc<br>left and<br>VFRS fo<br>grip Do   | R) 25-6-0 to<br>ine; cantileve<br>I right expose<br>or reactions<br>OL=1.60   | r left<br>ed;C-<br>ss                      |  |   | ł  | STATE OF   | MISSOUR  | Ø                           |
| BOT CHORD   | 16-17=-146/1434, 1<br>18-19=-225/1494, 1<br>2-31=-695/3986, 30<br>27-30=-458/3062, 2<br>24-25=-77/1079, 23<br>22-23=-77/1079, 21<br>19-21=-1284/230   | 7-18=-171/1403,<br>9-20=0/12<br>-31=-730/3887,<br>5-27=-184/2365,<br>-24=-77/1079,<br>-22=-1284/230,                            | 4<br>5<br>6)<br>7)                    | <ul> <li>see Standarc<br/>or consult qu</li> <li>All plates are</li> <li>Gable studs</li> <li>This truss ha<br/>chord live loa</li> <li>* This truss h<br/>on the bottom<br/>3-06-00 tall b</li> </ul> | Industry Gable En-<br>alified building desi<br>2x4 (  ) MT20 unle<br>spaced at 2-0-0 oc.<br>s been designed fo<br>d nonconcurrent w<br>as been designed in<br>n chord in all areas<br>y 2-00-00 wide will   | d Deta<br>gner as<br>ess othe<br>ith any<br>for a liv<br>where<br>fit betw  | a is as applical<br>s per ANSI/TF<br>erwise indicat<br>) psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>veen the botto                      | ,,<br>ble,<br>PI 1.<br>ted.<br>ds.<br>Dpsf |  |   | Prot   | PE-2023  | DO00471  | Sanda                       |

on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

January 3,2025

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|                                 |                 |  |                               |                            |   | RELEASE FOR CONSTRUCTION  |
|---------------------------------|-----------------|--|-------------------------------|----------------------------|---|---|
| Job                             | Truss           | Truss Type                                 | Qty                           | Ply                        | Clayton Builder-P24093                                  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A                        | B02             | Common Supported Gable                     | 1                             | 1                          | Job Reference (optional                                 | LEE'S SUMMIT, MISSOURI  |
| Direct Lumber of Colorado, Denv | er, CO - 80221, | Run: 8.83 S Dec 4 2<br>ID:IgeKz5StzrUUIdcW | 024 Print: 8.8<br>/CZ9mkyylzE | 330 S Dec 4<br>31-RfC?PsB7 | 2024 MiTek Industries, Inc. T<br>0Hq3NSgPqnL8w3uITXbGKV | e Dec 3 07:50:5/07/2025   |





| Scale = 1:85.8  | F                     |                   |                 |             | 46-0-0         |              |      |       |        |       |                   |                 |        |
|-----------------|-----------------------|-------------------|-----------------|-------------|----------------|--------------|------|-------|--------|-------|-------------------|-----------------|--------|
| Plate Offsets ( | X, Y): [2:0-4-3,Edge] | , [28:0-4-3,Edge] |                 |             |                |              |      |       |        |       |                   |                 |        |
| Loading         | (psf)                 | Spacing           | 2-0-0           | CSI         |                | DEFL         | in   | (loc) | l/defl | L/d   | PLATES            | GRIP            |        |
| TCLL (roof)     | 25.0                  | Plate Grip DOL    | 1.15            | тс          | 0.10           | 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   | NO              | WB          | 0.14           | Horz(CT)     | 0.01 | 28    | n/a    | n/a   |                   |                 |        |
| BCDL            | 10.0                  | Code              | IRC2018/TPI2014 | Matrix-S    |                |              |      |       |        |       | Weight: 242 lb    | FT = 20%        |        |
| LUMBER          |                       |                   |                 | Max Grav 2= | 196 (LC 1), 28 | 8=196 (LC 1) | ,    | WEBS  |        | 15-41 | =-201/39, 14-42=  | ·-149/79,       |        |
| TOP CHORD       | 2x4 SPF No.2          |                   |                 | 30          | =255 (LC 26),  | , 31=153 (LC | 1),  |       |        | 13-43 | =-139/95, 12-44=  | -140/88,        |        |
| BOT CHORD       | 2x4 SPF No.2          |                   |                 | 32          | =185 (LC 26),  | 33=189 (LC   | 1),  |       |        | 11-46 | =-140/89, 10-47=  | -142/90,        |        |
| OTHERS          | 2x4 SPF No.2          |                   |                 | 34          | =173 (LC 26),  | 35=179 (LC   | 1),  |       |        | 9-48= | -132/84, 8-49=-14 | 49/95, 6-50=-14 | 43/93, |
|                 | Laft Out MANA Churd   | 4 C 40 Dimb4 0441 |                 | 36          | -182 (I C 26)  | 38-182 (1 C  | 1)   |       |        | 5-51- | -100/70 /-5010    | 02/212          |        |

| SLIDER L            | Left 2x4 W<br>Stud 1-6- | W Stud<br>-13          | 1-6-13, Right 2x4 WW       |           | 36=182 (LC 26), 38=182 (LC 1),<br>39=176 (LC 1), 40=190 (LC 26), |    | 5-51=-122/72, 4-52=-192/212,<br>16-40=-149/79, 17-39=-139/95, |
|---------------------|-------------------------|------------------------|----------------------------|-----------|--|----|---|
| BRACING             |                         |                        |                            |           | 41=206 (LC 22), 42=190 (LC 25),                                  |    | 18-38=-140/88, 19-36=-140/89,                                 |
| TOP CHORD           | Structural              | wood she               | athing directly applied or |           | 43=176 (LC 1), 44=182 (LC 1),                                    |    | 20-35=-142/90, 21-34=-132/84,                                 |
|                     | 6-0-0 oc ni             | Irline                 | atting directly applied of |           | 46=182 (LC 25), 47=179 (LC 1),                                   |    | 22-33=-149/95, 24-32=-143/92,                                 |
|                     | Pigid ceilin            | a directly             | applied or 10-0-0 oc       |           | 48=173 (LC 25), 49=189 (LC 1),                                   |    | 25-31=-122/71, 26-30=-192/209                                 |
|                     | hracing                 | ig uncoury             |                            |           | 50=185 (LC 25), 51=153 (LC 1),                                   | NO | TES   |
| WEBS                | 1 Row at m              | hidht                  | 15-41 14-42 13-43          |           | 52=255 (LC 25)   | 1) | Unbalanced roof live loads have been considered for           |
| WEB0                | i itow at ii            | napt                   | 16-40 17-39                | FORCES    | (lb) - Maximum Compression/Maximum                               | ., | this design.  |
| <b>REACTIONS</b> (s | size) 2                 | 2=46-0-0,              | 28=46-0-0, 30=46-0-0,      |           | Tension  | 2) | Wind: ASCE 7-16; Vult=115mph (3-second gust)                  |
| ,                   | ĺ.                      | 31=46-0-0              | ), 32=46-0-0, 33=46-0-0,   | TOP CHORD | 1-2=-1/0, 2-4=-225/98, 4-5=-152/100,                             |    | Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft;                 |
|                     | 3                       | 34=46-0-0              | ), 35=46-0-0, 36=46-0-0,   |           | 5-6=-128/116, 6-8=-106/138, 8-9=-87/162,                         |    | Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope)           |
|                     | 3                       | 38=46-0-0              | ), 39=46-0-0, 40=46-0-0,   |           | 9-10=-64/183, 10-11=-80/206, 11-12=-95/245,                      |    | exterior zone and C-C Corner(3E) -0-10-3 to 4-1-13,           |
|                     | 4                       | 41=46-0-0              | ), 42=46-0-0, 43=46-0-0,   |           | 12-13=-110/289, 13-14=-126/334,                                  |    | Exterior(2N) 4-1-13 to 23-0-0, Corner(3R) 23-0-0 to           |
|                     | 4                       | 44=46-0-0              | ), 46=46-0-0, 47=46-0-0,   |           | 14-15=-140/374, 15-16=-140/374,                                  |    | 28-0-0, Exterior(2N) 28-0-0 to 46-10-3 zone; cantilever       |
|                     | 4                       | 48=46-0-0              | ), 49=46-0-0, 50=46-0-0,   |           | 16-17=-126/334, 17-18=-110/289,                                  |    | left and right exposed ; end vertical left and right          |
|                     | ţ                       | 51=46-0-0              | ), 52=46-0-0               |           | 18-19=-95/245, 19-20=-80/202,                                    |    | exposed;C-C for members and forces & MWFRS for                |
| M                   | lax Horiz 2             | 2=187 (LC              | C 16)                      |           | 20-21=-04/108, 21-22=-07/117,                                    |    | reactions shown; Lumber DOL=1.60 plate grip                   |
| M                   | lax Uplift 2            | 2=-36 (LC              | : 13), 28=-2 (LC 9),       |           | 22-24=-53/71, 24-25=-60/55, 25-26=-69/21,                        |    | DOL=1.60  |
|                     | 3                       | 30=-105 (              | LC 13), 31=-37 (LC 13),    |           | 2 52-20/150 51 52-20/150   |    | Dung  |
|                     | 3                       | 32=-58 (L              | C 13), 33=-59 (LC 13),     | BOTCHORD  | 2-32=-39/139, 31-32=-39/139,<br>50-5139/159 49-5039/159          |    | OF MISCO  |
|                     | 3                       | 34=-50 (L              | C 13), 35=-57 (LC 13),     |           | 48-49-39/159 47-48-39/159  |    | A 10 -00 M  |
|                     |                         | 36=-53 (L              | C 13), 38=-52 (LC 13),     |           | 46-47=-39/159 44-46=-39/159                                      |    | AN IDIN VON   |
|                     |                         | 39=-60 (L              | C(13), 40=-47 (LC(13)),    |           | 43-44=-39/159, 42-43=-39/159,                                    |    | ADAM VAN  |
|                     | 4                       | 42=-50 (L              | C(12), 43 = -59 (LC(12)),  |           | 41-42=-39/159, 40-41=-39/159,                                    |    | PACE \  |
|                     | 4                       | 44=-53 (L<br>47 57 (L  | C(12), 46 = -53 (LC(12)),  |           | 39-40=-39/159, 38-39=-39/159,                                    |    |   |
|                     | 4                       | 47=-57 (L<br>40 50 (L  | C(12), 48 = -50 (LC(12)),  |           | 36-38=-39/159, 35-36=-39/159,                                    |    |   |
|                     |                         | 49=-09 (L<br>51_ 22 (l | C(12), 50 = -59 (LC(12)),  |           | 34-35=-39/159, 33-34=-39/159,                                    |    | A relieve to the former of the                                |
|                     |                         | 51=-55 (L              | C 12), 32 = 120 (LC 12)    |           | 32-33=-39/159, 31-32=-39/159,                                    |    | A P NOMOR   |
|                     |                         |                        |                            |           | 30-31=-39/159, 28-30=-39/159                                     |    | WOX PE-2023000471   |
|                     |                         |                        |                            |           |  |    | MAN ISA   |
|                     |                         |                        |                            |           |  |    | W O'S ENO H   |
|                     |                         |                        |                            |           |  |    | WAL D'S   |
|                     |                         |                        |                            |           |  |    | Vacan   |

Carrie January 3,2025



|                                 |                  |  |                               |                            |   | RELEASE FOR CONSTRUCTION  |
|---------------------------------|------------------|--|-------------------------------|----------------------------|---|---|
| Job                             | Truss            | Truss Type                                 | Qty                           | Ply                        | Clayton Builder-P24093                                  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A                        | B02              | Common Supported Gable                     | 1                             | 1                          | Job Reference (optional                                 | LEE'S SUMMIT, MISSOURI  |
| Direct Lumber of Colorado, Denv | rer, CO - 80221, | Run: 8.83 S Dec 4 2<br>ID:IgeKz5StzrUUIdcW | 024 Print: 8.8<br>/CZ9mkyylzE | 330 S Dec 4<br>31-RfC?PsB7 | 2024 MiTek Industries, Inc. T<br>0Hq3NSgPqnL8w3uITXbGKV | e Dec 3 07:50:5/07/29:25  |

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated. 4)
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) 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 8) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2, 50 lb uplift at joint 42, 59 lb uplift at joint 43, 53 lb uplift at joint 44, 53 lb uplift at joint 48, 59 lb uplift at joint 49, 59 lb uplift at joint 47, 50 lb uplift at joint 48, 59 lb uplift at joint 49, 59 lb uplift at joint 50, 33 lb uplift at joint 51, 120 lb uplift at joint 52, 47 Ib uplift at joint 40, 60 lb uplift at joint 39, 52 lb uplift at joint 38, 53 lb uplift at joint 36, 57 lb uplift at joint 35, 50 Ib uplift at joint 34, 59 lb uplift at joint 33, 58 lb uplift at joint 32, 37 lb uplift at joint 31, 105 lb uplift at joint 30 and 2 lb uplift at joint 28.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



|                                 |                 |   |                                  |                           |   | RELEASE FOR CONSTRUCTION                                |
|---------------------------------|-----------------|---|----------------------------------|---------------------------|---|---|
| Job                             | Truss           | Truss Type                                | Qty                              | Ply                       | Clayton Builder-P24093                                  | -Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A                        | VA8             | Valley                                    | 1                                | 1                         | Job Reference (optional                                 | LEE'S SUMMIT, MISSOURI                                  |
| Direct Lumber of Colorado, Denv | er, CO - 80221, | Run: 8.83 S Dec 4 2<br>ID:W0flLv5kO0bX8ne | 2024 Print: 8.8<br>eai7o_QiylyrZ | 330 S Dec 4<br>-RfC?PsB70 | 2024 MiTek Industries, Inc. T<br>Hq3NSgPqnL8w3uITXbGKWr | e Dec 3 07:50:56 07/2025<br>Doi7J429C?f                 |
|                                 |                 |   |                                  |                           |   |   |





BRACING

TOP CHORD

BOT CHORD

REACTIONS (size)

bracing.

Tension

1-4=-34/37

| Scale = 1:19.3 |              |                 |                 |                   |                 |               |      |       |        |     |               |          |  |
|----------------|--------------|-----------------|-----------------|-------------------|-----------------|---------------|------|-------|--------|-----|---------------|----------|--|
| Loading        | (psf)        | Spacing         | 2-0-0           | CSI               |                 | DEFL          | in   | (loc) | l/defl | L/d | PLATES        | GRIP     |  |
| TCLL (roof)    | 25.0         | Plate Grip DOL  | 1.15            | TC                | 0.24            | Vert(LL)      | n/a  | -     | n/a    | 999 | MT20          | 197/144  |  |
| TCDL           | 10.0         | Lumber DOL      | 1.15            | BC                | 0.17            | Vert(CT)      | n/a  | -     | n/a    | 999 |               |          |  |
| BCLL           | 0.0*         | Rep Stress Incr | NO              | WB                | 0.00            | Horz(CT)      | 0.00 | 4     | n/a    | n/a |               |          |  |
| BCDL           | 10.0         | Code            | IRC2018/TPI2014 | Matrix-P          |                 |               |      |       |        |     | Weight: 14 lb | FT = 20% |  |
| LUMBER         |              |                 | 7) * This truss | has been desig    | ned for a liv   | e load of 20. | 0psf |       |        |     |               |          |  |
| TOP CHORD      | 2x4 SPF No.2 |                 | on the botto    | om chord in all a | reas where      | a rectangle   |      |       |        |     |               |          |  |
| BOT CHORD      | 2x4 SPF No.2 |                 | 3-06-00 tal     | by 2-00-00 wide   | e will fit betw | veen the bott | om   |       |        |     |               |          |  |
| WEBS           | 2x4 SPF No.2 |                 | chord and a     | any other membe   | ers.            |               |      |       |        |     |               |          |  |

4-9-1

All bearings are assumed to be SPF No.2 . 8)

9) Provide mechanical connection (by others) of truss to

- bearing plate capable of withstanding 12 lb uplift at joint 1 and 102 lb uplift at joint 4.
- 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.

LOAD CASE(S) Standard



FORCES

## NOTES

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

Max Horiz 1=103 (LC 9)

Structural wood sheathing directly applied or

4-9-11 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

1=4-9-11, 4=4-9-11

Max Uplift 1=-12 (LC 12), 4=-102 (LC 12) Max Grav 1=156 (LC 1), 4=299 (LC 1)

(Ib) - Maximum Compression/Maximum

1-2=-154/60, 2-3=-40/0, 2-4=-260/284

2-0-7

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 6-1-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. 4)

Gable studs spaced at 4-0-0 oc. 5)

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

# OF MISSO ADAM PACE NUME PE-202300047 C HESSIONAL E

January 3,2025



|                                 | RELEASE FOR CONSTRUCTION |                     |                |             |                               |   |
|---------------------------------|--------------------------|---------------------|----------------|-------------|-------------------------------|---|
| Job                             | Truss                    | Truss Type          | Qty            | Ply         | Clayton Builder-P24093        | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A                        | B01                      | Common              | 3              | 1           | Job Reference (optional       | R86009699<br>LEE'S SUMMIT, MISSOURI   |
| Direct Lumber of Colorado, Denv | er, CO - 80221,          | Run: 8.83 S Dec 4 2 | 024 Print: 8.8 | 830 S Dec 4 | 2024 MiTek Industries, Inc. T |   |

ID:0bp7KAhlL\_5CnBRSfuXXq9ylzDJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi75vzJC?

| -0-10-8 | 7-9-11 | 15-4-13 | 23-0-0 | 30-7-3 | 38-2-5 | 46-0-0 | 46-10-8 |
|---------|--------|---------|--------|--------|--------|--------|---------|
| 0-10-8  | 7-9-11 | 7-7-3   | 7-7-3  | 7-7-3  | 7-7-3  | 7-9-11 | 0-10-8  |
|         |        |         | 46     | -0-0   |        |        |         |



|  | L  | 9-3-14   |                               | 18-5-5   |   | 27-6-11  |   | 36   | -8-2           |                |            | 46-0-0               | 1                         |
|--|--|--|-------------------------------|--|---|--|---|--|----------------|----------------|------------|----------------------|---------------------------|
| Scale = 1:88.9   | Г  | 9-3-14   | I                             | 9-1-6  | I   | 9-1-6  | 1   | 9-   | 1-6            | 1              |            | 9-3-14               |                           |
| Plate Offsets (  | (X, Y): [2:Edge,0-2-1]   | [10:Edge,0-2-1]  |                               |  |   |  |   |  |                |                |            |                      |                           |
| Loading<br>TCLL (roof)   | (psf)<br>25.0  | Spacing<br>Plate Grip DOL  | 2-0-0<br>1.15                 |  | CSI<br>TC   | 0.48   | <b>DEFL</b><br>Vert(LL)   | in<br>-0.43                                  | (loc)<br>15-17 | l/defl<br>>999 | L/d<br>240 | PLATES<br>MT20       | <b>GRIP</b><br>197/144    |
| TCDL<br>BCLL   | 10.0<br>0.0*   | Lumber DOL<br>Rep Stress Incr  | 1.15<br>NO                    |  | BC<br>WB  | 0.85<br>0.79   | Vert(CT)<br>Horz(CT)  | -0.73<br>0.20                                | 15-17<br>10    | >753<br>n/a    | 180<br>n/a |                      |                           |
| BCDL   | 10.0   | Code   | IRC2018                       | 3/TPI2014  | Matrix-S  |  | -   |  |                |                |            | Weight: 213 lb       | FT = 20%                  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD  | 2x6 SPF 1650F 1.5J<br>2x4 SPF 2100F 1.8J<br>2x4 SPF No.2<br>Structural wood she<br>3-9-2 oc purlins.<br>Rigid ceiling directly<br>bracing.   | athing directly appli<br>applied or 9-8-9 oc   | 3)<br>4)<br>ed or<br>5)<br>6) | This truss ha<br>chord live loa<br>* This truss h<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>All bearings<br>Provide mec<br>bearing plate | as been designe<br>ad nonconcurre<br>has been design<br>n chord in all ar<br>by 2-00-00 wide<br>hy other membe<br>are assumed to<br>hanical connec<br>e capable of with | ed for a 10.0<br>nt with any<br>ned for a liv<br>reas where<br>e will fit betw<br>ers, with BC<br>b be SPF 21<br>tion (by oth<br>hstanding 3 | 0 psf bottom<br>other live loa<br>e load of 20.<br>a rectangle<br>veen the bott<br>DL = 10.0ps<br>00F 1.8E .<br>ers) of truss<br>47 lb uplift a | ads.<br>Opsf<br>tom<br>if.<br>to<br>it joint |                |                |            |                      |                           |
| REACTIONS  | bracing.<br>NS (size) 2=0-5-8, 10=0-5-8<br>Max Horiz 2=187 (LC 16)<br>Max Uplift 2=-347 (LC 12), 10=-247 (LC 13)<br>Max Grav 2=2264 (LC 2), 10=2264 (LC 2)<br>(hb) Maximum Compression/Maximum   |  |                               |  |   |  |   |  |                |                |            |                      |                           |
| FORCES   | (lb) - Maximum Con   | pression/Maximum   | <sup>7</sup> LO               | AD CASE(S)   | Standard  |  |   |  |                |                |            |                      |                           |
| TOP CHORD  | 1-2=0/6, 2-3=-4498/<br>5-6=-3463/597, 6-7=<br>7-9=-4331/648, 9-10  | 616, 3-5=-4331/648<br>3463/597,<br>)4498/616, 10-11  | 8,<br>-0/6                    |  |   |  |   |  |                |                |            |                      |                           |
| BOT CHORD  | 2-17=-649/4018, 15<br>14-15=-200/2605, 1<br>10-12=-462/4018  |  | -0/0                          |  |   |  |   |  |                |                |            |                      |                           |
| WEBS   | 6-14=-253/1228, 7-<br>7-12=-134/768, 9-12<br>6-15=-253/1228, 5-<br>5-17=-134/768, 3-12   | 14=-845/373,<br>2=-330/232,<br>15=-845/373,<br>7=-330/233  |                               |  |   |  |   |  |                |                |            | SE OF M              | AISS-                     |
| NOTES  |  |  |                               |  |   |  |   |  |                |                | 1          | 750                  | N.O.                      |
| 1) Unbalance   | ed roof live loads have  | been considered for  | or                            |  |   |  |   |  |                |                | B          | S ADA                | M TEN                     |
| 2) Wind: ASG<br>Vasd=91n<br>Ke=1.00;<br>exterior zc<br>Interior (1)<br>28-0-0, Int<br>and right e<br>C for merr<br>shown; Lu | <br>CE 7-16; Vult=115mph<br>nph; TCDL=6.0psf; BC<br>Cat. II; Exp C; Enclose<br>one and C-C Exterior(2)<br>4-1-13 to 23-0-0, Ext<br>terior (1) 28-0-0 to 46-<br>exposed ; end vertical<br>nbers and forces & MV<br>imber DOL=1.60 plate | (3-second gust)<br>:DL=6.0psf; h=35ft;<br>:d; MWFRS (envelo<br>:E) -0-10-3 to 4-1-13<br>erior(2R) 23-0-0 to<br>10-3 zone; cantileve<br>left and right exposed<br>/FRS for reactions<br>grip DOL=1.60 | pe)<br>3,<br>er left<br>ed;C- |  |   |  |   |  |                |                | * Physics  | PE-20230<br>PE-20230 | E<br>000471 E<br>L ENGINE |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



there January 3,2025

|                                | RELEASE FOR CONSTRUCTION  |            |     |     |                         |   |
|--------------------------------|---------------------------|------------|-----|-----|-------------------------|---|
| Job                            | Truss                     | Truss Type | Qty | Ply | Clayton Builder-P24093  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A                       | A05                       | Common     | 4   | 1   | Job Reference (optional | LEE'S SUMMIT, MISSOURI  |
| irect Lumber of Colorado, Denv | e Dec 3 07:50:50 07/20025 |            |     |     |                         |   |

| -0-10-8 | 8-8-5 | 17-1-3 | 25-6-0 | 33-10-13 | 42-3-11 | 51-0-0 | 51-10-8 |
|---------|-------|--------|--------|----------|---------|--------|---------|
| 0-10-8  | 8-8-5 | 8-4-13 | 8-4-13 | 8-4-13   | 8-4-13  | 8-8-5  | 0-10-8  |
|         |       |        | 51     | -0-0     |         |        |         |



|             |        |        |        |        |        | 51-0-0  |
|-------------|--------|--------|--------|--------|--------|---------|
|             | 5-2-12 | 13-3-8 | 25-6-0 | 37-8-8 | 45-9-4 | 50-7-12 |
|             | 5-2-12 | 8-0-12 | 12-2-8 | 12-2-8 | 8-0-12 | 4-10-8  |
| lo - 1.05 3 |        |        |        |        |        | 0-4-    |

Plate Offsets (X, Y): [15:0-4-0,0-4-8]

| <b>Loading</b><br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL                         | (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   | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC201 | 8/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-S   | 0.45<br>0.89<br>0.70  | <b>DEFL</b><br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.44<br>-0.76<br>0.13 | (loc)<br>15-17<br>15-17<br>12 | l/defl<br>>999<br>>718<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 273 lb        | <b>GRIP</b><br>197/144<br>FT = 20% |     |
|---|--|--|---------------------------------------|---|---|---|--|------------------------------|-------------------------------|-------------------------------|--------------------------|---|------------------------------------|-----|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x6 SPF 1650F 1.5E<br>2x6 SPF 1650F 1.5E<br>2x4 SPF No.2<br>Structural wood she<br>3-11-6 oc purlins.<br>Rigid ceiling directly<br>bracing, Except:  | athing directly applie<br>applied or 10-0-0 oc   | 2)<br>d or                            | Wind: ASCE<br>Vasd=91mpl<br>Ke=1.00; Ca<br>exterior zone<br>Interior (1) 4-<br>30-7-2, Interi<br>and right exp<br>C for membe<br>shown; Lumb  | 7-16; Vult=115mp<br>n; TCDL=6.0psf; B<br>t. II; Exp C; Enclos<br>and C-C Exterior(<br>2-10 to 25-6-0, Ex<br>or (1) 30-7-2 to 51<br>bosed ; end vertica<br>rs and forces & M<br>ber DOL=1.60 plate | oh (3-sec<br>CDL=6.0<br>sed; MW<br>(2E) -0-1<br>cterior(2F<br>-10-8 zc<br>I left and<br>WFRS for<br>e grip Do | ond gust)<br>Dpsf; h=35ft;<br>FRS (envelop<br>0-8 to 4-2-10<br>₹) 25-6-0 to<br>nne; cantileve<br>d right expose<br>or reactions<br>DL=1.60 | oe)<br>),<br>r left<br>ed;C- |                               |                               |                          |   |                                    |     |
| WEBS<br>REACTIONS   | 1 Row at midpt           (size)         2=0-5-8, '           Max Horiz         2=207 (LC           Max Uplift         2=-367 (L           1 Rax Grav         2=2196 (L           12=3024         12=3024 | -12.<br>7-13, 7-15, 5-15, 9-1<br>10=0-3-8, 12=0-5-8<br>C 12)<br>C 12), 10=-319 (LC 2<br>LC 13)<br>.C 2), 10=55 (LC 12)<br>(LC 2) | 12 3)<br>4)<br>27),<br>5)             | <ul> <li>3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.</li> <li>5) All bearings are assumed to be SPF 1650F 1.5E .</li> <li>6) Provide mechanical connection (by others) of truss to</li> </ul> |   |   |  |                              |                               |                               |                          |   |                                    |     |
| FORCES  | (lb) - Maximum Com<br>Tension<br>1-2=0/12 2-3=-4525  | pression/Maximum   | 5                                     | bearing plate<br>10, 367 lb up  | capable of withsta<br>lift at joint 12 and  | anding 3<br>360 lb u  | 19 lb uplift at<br>plift at joint 2.   | joint                        |                               |                               |                          |   |                                    |     |
| BOT CHORD   | 5-6=-2497/507, 6-7=<br>7-9=-2656/407, 9-10<br>2-18=-701/4049, 17-  | =-2496/506,<br>)=-184/1469, 10-11=<br>-18=-737/3950,   | ,,<br>7)<br>0/12                      | This truss is<br>International<br>R802.10.2 a   | designed in accord<br>Residential Code<br>nd referenced stan  | dance w<br>sections<br>idard AN   | ith the 2018<br>R502.11.1 a<br>ISI/TPI 1.  | nd                           |                               |                               |                          | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~                                  |     |
| WEBS  | 13-17=-466/3131, 12<br>10-12=-1242/216<br>6-15=-150/1393, 3-1<br>7-13=-395/193, 9-13<br>7-15=-517/289, 5-15<br>9-12=-3896/539  | 2-13=-204/1462,<br> 8=0/226, 3-17=-596/<br>3=-11/1171, 5-17=-50<br>5=-1235/394,  | LC<br>/322,<br>)/996,                 | DAD CASE(S)   | Standard  |   |  |                              |                               |                               |                          | STATE OF M                              | AISSOURI<br>M                      | 8   |
| NOTES<br>1) Unbalance   | ed roof live loads have  | been considered for  |                                       |   |   |   |  |                              |                               | 1                             | ho                       |   |                                    | · . |

this design.

PE-2-NULLER ar January 3,2025



| Job Truss Truss Type Qty Ply Clayton Builder-P24093 -Lot 186-3221 SW Appoint Clayton Builder-P24093 -Lot 186-3221 SW Appoint Clayton Builder-P24093 -Lot 186-3221 SW Appoint Structure R8609701 -Lot 1 |          |       |              |     |     |                         | RELEASE FOR CONSTRUCTION  | 4 |
|--|----------|-------|--------------|-----|-----|-------------------------|---|---|
| 241117-A D02 Roof Special 2 1 Here ( it is LEF'S SUMMIT MISSOU   | Job      | Truss | Truss Type   | Qty | Ply | Clayton Builder-P24093  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |   |
|  | 241117-A | D02   | Roof Special | 2   | 1   | Job Reference (optional | LEE'S SUMMIT, MISSOURI  |   |

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. The Dec 3 07:50:56 07/26:25 ID:tp\_7KuFwRFwb3AEL5sOYe4yIxXR-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDorw4zJCff



| Scale = 1:79 |  |
|--------------|--|
|--------------|--|

### Plate Offsets (X, Y): [5:0-3-0,Edge], [16:Edge,0-8-2]

| Leading<br>TCLL (roof)         (psf)<br>25.0         Spacing<br>Plate Grip DOL<br>Lumber DOL<br>L         20-0<br>1.15         CSI<br>TC         0.93         DEFL<br>Ver(LL)         in (loc) I/deft         L/d<br>PLATES         GRIP<br>MT20           BCLL         0.0°         Rep Stress Incr         NO         BC         0.115         BC         0.1315         Sego 240           BCLL         0.0°         Rep Stress Incr         NO         BC         NO         Sego 200         NO         Sego 200  |   | ( , , [, -5-],  | 1 3  |   |   |  |   |   |   |                              |                               |                          |                                  |                                    |
|---|---|---|--|---|---|--|---|---|---|------------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|
| LUMBER       2x4 SPF No.2       2)       Wind: ASCE 7-16; Vull=115mph (3-second gust)         BOT CHORD       2x4 SPF No.2       SPF No.2         BOT CHORD       SPF No.2       SPF No.2         BACING       SPF No.2       SPF No.2         BOT CHORD       Structural wood sheathing directly applied or 3-6-6 or putinis, except end verticals.       C)       Charlen of CPC Structural wood sheathing directly applied or 10-0-0 or bracing. Except:       6-0-0 oc bracing: 12-13.       C)       C)       C)       C)       Nith to 13-6-0. Extend (2R) to reactions.       Shown; Lumber DOL=1.60 plate grip DOL=1.60         WEBS       1 Row at midpt       2-13.       C)       This truss has been designed for a 10.0 pet for loads.       C)       Shown; Lumber DOL=1.60 plate grip DOL=1.60         WEBS       1 Row at midpt       2-13.       C)       This truss has been designed for a 10.0 pet for loads.       C)       Shown; Lumber DOL=1.60         WEBS       1 Row at midpt       2-13.       C)       C)       This truss has been designed for a 10.0 pet for loads.       This truss has been designed for a 10.0 pet for loads.       This truss has been designed for a 10.0 pet for loads.       This truss has been designed for a 10.0 pet for loads.       This truss has been designed for a 10.0 pet for loads.       This truss has been designed for a 10.0 pet for loads.       This truss has been designed for a 10.0 pet for loads.       This truss h | Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (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   | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC2018                        | 8/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-S  | 0.93<br>0.19<br>0.18  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.02<br>-0.04<br>0.01              | (loc)<br>13-15<br>13-15<br>9 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 151 lb | <b>GRIP</b><br>197/144<br>FT = 20% |
| FORCES       (lb) - Maximum Compression/Maximum<br>Tension       7)       Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 141 lb uplift at joint<br>16, 97 lb uplift at joint 12.         TOP CHORD       1-2=-1086/207, 2-4=-643/249, 4-6=-622/224,<br>6-7=-71/172, 7-8=-291/123, 1-16=-804/172,<br>8-9=-276/118       7)       Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 141 lb uplift at joint 12.         BOT CHORD       15-16=-266/394, 13-15=-187/911,<br>12-13=-105/65, 11-12=-69/250,<br>6-12=-1023/154, 11-11=-48/183, 9-10=-37/68       8)       This truss is designed in accordance with the 2018<br>International Residential Code sections R502.11.1 and<br>R802.10.2 and referenced standard ANSI/TPI 1.         WEBS       2-15=-0/221, 2-13=-562/271, 4-13=-69/229,<br>6-13=-17/636, 7-11=-324/134, 1-15=-46/625,<br>8-10=-11/118, 7-10=0/170       Standard         NOTES       Notes  | LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS | 2x4 SPF No.2<br>2x6 SPF 1650F 1.5E<br>SPF No.2<br>2x4 SPF No.2<br>Structural wood she<br>3-5-6 oc purlins, ex<br>Rigid ceiling directly<br>bracing, Except:<br>6-0-0 oc bracing: 12<br>1 Row at midpt<br>(size) 9=0-3-8, 1<br>Max Horiz 16=-302 (<br>Max Uplift 9=-97 (LC<br>16=-141 (<br>Max Grav 9=312 (LC<br>16=870 (L | E *Except* 6-11,11-9<br>athing directly applie<br>cept end verticals.<br>applied or 10-0-0 oc<br>-13.<br>2-13<br>12=0-5-8, 16= Mecha<br>LC 8)<br>13), 12=-119 (LC 12<br>LC 12)<br>C 20), 12=1329 (LC 1<br>C 1) | 2)<br>22x4<br>d or<br>3)<br>annical<br>3),<br>5)<br>(),<br>5) | Wind: ASCE<br>Vasd=91mpl<br>Ke=1.00; Ca<br>exterior zone<br>Interior (1) 5-<br>18-6-0, Interi<br>and right exp<br>C for membe<br>shown; Lumb<br>This truss ha<br>chord live loa<br>* This truss ha<br>chord live loa<br>* This truss ha<br>chord live loa<br>* This truss a<br>chord live loa<br>* This truss a<br>chord live loa<br>* This truss ha<br>chord live loa<br>* This truss ha<br>chord and ar<br>Bearings are<br>1.5E, Joint S<br>Refer to gird | 7-16; Vult=115mp<br>n; TCDL=6.0psf; E<br>t. II; Exp C; Enclose<br>and C-C Exterior<br>4-14 to 13-6-0, E;<br>or (1) 18-6-0 to 22<br>bosed ; end vertica<br>rs and forces & M<br>ber DOL=1.60 plat<br>ad nonconcurrent<br>has been designed<br>ad nonconcurrent<br>has been designed<br>n chord in all area<br>yo 2-00-00 wide w<br>yo other members.<br>assumed to be: ,<br>o SPF No.2. | bh (3-see<br>BCDL=6.<br>Sed; MW<br>(2E) 0-4<br>xterior(21<br>3-1-0 zor<br>al left and<br>IWFRS f<br>te grip D<br>for a 10.<br>with any<br>d for a liv<br>is where<br>ill fit betw | cond gust)<br>Dpsf; h=35ft;<br>FRS (envelop<br>-14 to 5-4-14,<br>R) 13-6-0 to<br>te; cantilever<br>d right expose<br>or reactions<br>OL=1.60<br>D psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>veen the bottod<br>SPF 1650F<br>pections | be)<br>left<br>sd;C-<br>ds.<br>0psf<br>om |                              |                               |                          |                                  |                                    |
| BOT CHORD 15-16=266/394, 13-15=-187/911,<br>12-13=-105/65, 11-12=-69/250,<br>6-12=-1023/154, 10-11=-48/183, 9-10=-37/68<br>WEBS 2-15=0/221, 2-13=-562/271, 4-13=-69/229,<br>6-13=-17/636, 7-11=-324/134, 1-15=-46/625,<br>8-10=-11/118, 7-10=0/170<br>NOTES   | FORCES  | (lb) - Maximum Com<br>Tension<br>1-2=-1086/207, 2-4=<br>6-7=-71/172, 7-8=-2<br>8-9=-276/118   | pression/Maximum<br>643/249, 4-6=-622/<br>91/123, 1-16=-804/1  | 7)<br>224,<br>72, 8)  | <ul> <li>6) Refer to girder(s) for truss to truss connections.</li> <li>7) Provide mechanical connection (by others) of truss to<br/>bearing plate capable of withstanding 141 lb uplift at joint<br/>16, 97 lb uplift at joint 9 and 119 lb uplift at joint 12.</li> <li>8) This truss is designed in accordance with the 2018</li> </ul>  |  |   |   |   |                              |                               |                          |                                  |                                    |
| WEBS 2-15=0/221, 2-13=-562/271, 4-13=-69/229,<br>6-13=-17/636, 7-11=-324/134, 1-15=-46/625,<br>8-10=-11/118, 7-10=0/170<br>NOTES  | BOT CHORD   | 15-16=-266/394, 13-<br>12-13=-105/65, 11-1<br>6-12=-1023/154, 10-   | -15=-187/911,<br>2=-69/250,<br>-11=-48/183, 9-10=-3  | <sub>87/68</sub> LC   | R802.10.2 ar  | nd referenced star<br>Standard   | ndard AN  | ISI/TPI 1.  | nu  |                              |                               | G                        | FE OF J                          | MISSO                              |
| NOTES   | WEBS  | 2-15=0/221, 2-13=-5<br>6-13=-17/636, 7-11=<br>8-10=-11/118, 7-10=   | 562/271, 4-13=-69/22<br>324/134, 1-15=-46/<br>-0/170   | 19,<br>625,   |   |  |   |   |   |                              |                               |                          | AD/                              | M                                  |
|   | NOTES   |   |  |   |   |  |   |   |   |                              |                               | 8                        |                                  | 11 / <b>1</b> × 8                  |

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





January 3,2025

E

PE-20230

SSIONAL

|                          |                               |                       |   |               |                                   |  |                         |                           |                  |                    |                     | RE                        | LEASE    | FOR CONSTRUCTION  |   |
|--------------------------|-------------------------------|-----------------------|---|---------------|-----------------------------------|--|-------------------------|---------------------------|------------------|--------------------|---------------------|---------------------------|----------|---|---|
| Job                      | b Truss Tru                   |                       |   |               |                                   |  | Qty                     | Ply                       |                  | Clayton Bui        | Ider-P2409          | 3 -Lot 186-               | S NOTE   | D FOR PLAN REVIEW<br>V Arboridge Cir<br>DPMENT SERVICES | ] |
| 241117-A                 |                               | C02                   |   | Roof Sp       | pecial                            |  | 4                       | 1                         |                  | Job Refere         | nce (option         | al                        | LEE'S S  | R86009702<br>SUMMIT, MISSOURI                           |   |
| Direct Lumber of         | Colorado, Denve               | er, CO - 8            | 0221,                                       |               |                                   | Run: 8.82 E Sep 2                            | 2024 Pri                | int: 8.820 E              | Sep 25           | 2024 MiTek I       | ndustries, In       |                           | 10:19:12 | )7/2025   | - |
|                          |                               |                       | _   |               |                                   |  | JI VIQ_I (1)            | yi290-CiXXi               | tvi i bitp       | BIIQVIJERIQI       | 12691190620         |                           |          |   |   |
|                          |                               | -0-10                 | -8 8-2-                                     | 7             | 10-11-                            | 13 16-4-1<br>5 5-5-2                         | 4                       | + 21<br>+ 4               | 1-2-12<br>-9-14  | 24                 | -3-14<br>-1-2       | <u></u>                   | 0        | 31-3-8<br>  |   |
|                          |                               | 0-10                  | -0  |               |                                   |  |                         | -                         | • • •            | -                  |                     |                           | _        | 0-10-8  |   |
|                          |                               |                       |   |               |                                   |  | ŧ                       | 5x8=                      |                  |                    |                     |                           |          |   |   |
|                          | тт                            |                       |   |               |                                   |  |                         | 6<br>€                    |                  | 3x4                |                     |                           |          |   |   |
|                          |                               |                       |   |               | 12<br>51                          | 5x5 =  |                         |                           |                  | 3x4 II             |                     |                           |          |   |   |
|                          |                               |                       |   |               | 3x4 =                             | 510  |                         | $\parallel$               |                  | 8                  | 2x4                 | /                         |          |   |   |
| ۲<br>ب                   |                               |                       | 314   |               | 4                                 |  |                         |                           | $\mathbb{N}$     |                    | y<br>y              | 19 <sup>3</sup> >         | ×4 =     |   |   |
| ,<br>,                   |                               |                       | 3   |               |                                   | $\square$                                    |                         |                           |                  |                    |                     |                           | 0 3x4;   |   |   |
|                          |                               |                       | 384 =                                       |               |                                   |  |                         |                           |                  |                    |                     |                           | - tot    | 11 12   |   |
|                          |                               | 1                     |   |               |                                   | - IÐ   |                         |                           |                  |                    |                     |                           |          | 4x6 u   |   |
|                          | 0                             |                       | ⊠<br>3x8 ⊪                                  |               | 17                                | 16   | 1                       | 5                         |                  | 2x4 <b>I</b>       |                     |                           |          |   |   |
|                          |                               |                       |   |               | 2x4 II                            | 3x4=   | ł                       | 5x8 =                     |                  |                    | 4x12=               |                           |          |   |   |
|                          |                               |                       |   |               |                                   |  |                         |                           |                  |                    |                     |                           |          |   |   |
|                          |                               |                       | 8-2-  | 7             |                                   | 16-4-14                                      |                         | + 2                       | 21-4-8           | 21-8-12            |                     | 30-5-0                    |          | —   |   |
| Scale = 1:63.5           |                               |                       | 0-2-  |               |                                   | 0-2-1  |                         |                           | -11-10           | 0-4-4              |                     | 0-0-4                     |          |   | _ |
| Plate Offsets ()         | X, Y): [2:0-4-3,              | ,Edge],               | [5:0-2-8,0-3-0], [11:0                      | -3-3,0-2-7    |                                   |  |                         |                           |                  |                    |                     | -1                        |          | -   | _ |
| Loading<br>TCLL (roof)   | (                             | (psf)<br>25.0         | Spacing<br>Plate Grip DOL                   | 2-0-0<br>1.15 |                                   | CSI<br>TC                                    | 0.61                    | DEFL<br>/ert(LL)          | i<br>-0.2        | n (loc)<br>1 15-17 | l/defl L<br>>999 24 | d <b>PLATES</b><br>0 MT20 | 5        | <b>GRIP</b><br>197/144                                  |   |
| TCDL<br>BCLL             |                               | 10.0<br>0.0*          | Lumber DOL<br>Rep Stress Incr               | 1.15<br>NO    |                                   | BC<br>WB                                     | 0.86 \<br>0.95 H        | /ert(CT)<br>Horz(CT)      | -0.2             | 3 11-13<br>4 11    | >485 18<br>n/a n    | i0<br>/a                  |          |   |   |
| BCDL                     |                               | 10.0                  | Code  | IRC2018       | /TPI2014                          | Matrix-S                                     |                         | - (- )                    |                  |                    |                     | Weight:                   | 139 lb   | FT = 20%  | _ |
| LUMBER                   | 2x4 SPF No 2                  | 2 *Excer              | ot* 1-5 <sup>.</sup> 2x4 SPF 210(           | 2)<br>)F      | Wind: ASCE<br>Vasd=91mph          | 7-16; Vult=115mph<br>; TCDL=6.0psf; BC       | (3-secor<br>DL=6.0p     | nd gust)<br>sf; h=35ft:   | :                |                    |                     |                           |          |   |   |
| BOT CHORD                | 1.8E<br>2x4 SPE No 2          | 2                     |   |               | Ke=1.00; Cat<br>exterior zone     | II; Exp C; Enclose<br>and C-C Exterior(2     | d; MWFF<br>E) -0-10-    | RS (envelo<br>-8 to 4-1-8 | ope)<br>3.       |                    |                     |                           |          |   |   |
| WEBS                     | 2x4 SPF No.2                  | -<br>2 *Exceµ<br>No 2 | pt* 5-15:2x4 SP No.2<br>4-5-10              | N             | Interior (1) 4-<br>21-2-12. Inter | 1-8 to 16-4-14, Exte<br>ior (1) 21-2-12 to 3 | erior(2R)<br>1-3-8 zor  | 16-4-14 te<br>ne: cantile | o<br>ever        |                    |                     |                           |          |   |   |
|                          | Stud 3-2-14                   | 1                     | 4 0 10, Right 2x4 W                         |               | left and right<br>exposed:C-C     | exposed ; end verti-<br>for members and f    | cal left ar             | nd right<br>MWFRS fo      | or               |                    |                     |                           |          |   |   |
| TOP CHORD                | Structural wo                 | od shea               | athing directly applied                     | lor           | reactions sho                     | wn; Lumber DOL=                              | 1.60 plate              | e grip                    |                  |                    |                     |                           |          |   |   |
| BOT CHORD                | Rigid ceiling                 | ns.<br>directly       | applied or 6-0-0 oc                         | 3)            | This truss ha                     | s been designed for<br>d nonconcurrent wi    | r a 10.0 p<br>th any of | osf bottom                | n<br>bads        |                    |                     |                           |          |   |   |
| WEBS                     | bracing.<br>1 Row at mid      | pt 4                  | 4-15  | 4)            | * This truss h                    | as been designed f                           | or a live l             | load of 20                | 0.0psf           |                    |                     |                           |          |   |   |
| REACTIONS                | (lb/size) 2=<br>13:           | 991/0-3<br>=1453/0    | -8, 11=416/0-5-8,<br>)-5-8                  |               | 3-06-00 tall b                    | y 2-00-00 wide will                          | fit betwee              | en the bot                | ttom             |                    |                     |                           |          |   |   |
|                          | Max Horiz 2=<br>Max Uplift 2= | 161 (LC<br>-201 (LC   | : 12)<br>C 12), 11=-131 (LC 1               | 3), 5)        | All bearings a                    | re assumed to be \$                          | SPF No.2                | 2 crushing                | 1                |                    |                     |                           |          |   |   |
|                          | 13:<br>Max Grav 2=            | =-141 (L<br>991 (LC   | _C 12)<br>; 1), 11=444 (LC 28),             | 6)            | Provide mech                      | anical connection (                          | (by others              | s) of truss               | s to<br>at ioint |                    |                     |                           |          |   |   |
| FORCES                   | 13:<br>(lb) - Maximu          | =1453 (<br>m Comi     | LC 1)<br>pression/Maximum                   |               | 2, 141 lb uplit                   | t at joint 13 and 13                         | 1 lb uplift             | at joint 1                | 1.               |                    |                     |                           |          |   |   |
| TOP CHORD                | Tension<br>1-2=0/0 2-3=       | -1548/2               | 253 3-4=-1447/277                           | 7)            | This truss is a                   | designed in accorda                          | ance with               | the 2018                  |                  |                    |                     |                           |          |   |   |
|                          | 4-5=-746/214                  | , 5-18=<br>1 6-7-     | -601/188,<br>-37/234 7-8-0/163              |               | R802.10.2 ar                      | d referenced stand                           | ard ANS                 | I/TPI 1.                  | and              |                    |                     | AS                        | OF A     | den all   |   |
|                          | 8-9=-15/113,                  | 9-19=-2               | 237/188,<br>11–-344/173 11-12-              | LO<br>0/0     | AD CASE(S)                        | Standard                                     |                         |                           |                  |                    |                     | ANE                       |          | 13Soza  |   |
| BOT CHORD                | 2-17=-310/13                  | 23, 16-<br>222, 16-   | 17=-310/1323,<br>15= 148/0 13 14-0          | /59           |                                   |  |                         |                           |                  |                    | k                   | 15/                       | ADA      | M JEN   |   |
|                          | 7-13=-247/14                  | 6, 11-1               | 3=-89/254                                   | /50,          |                                   |  |                         |                           |                  |                    | 8                   |                           | TAC      |   |   |
| WEBS                     | 4-17=0/375, 4                 | 4-15=-8               | =-65/511, 13-15=-4/5<br>13/226, 9-13=-419/1 | 98,           |                                   |  |                         |                           |                  |                    | (A)                 | the-                      |          | and.  |   |
| NOTES                    | 5-15=-181/94                  | ł                     |   |               |                                   |  |                         |                           |                  |                    | Y                   | PO PE                     | -20230   | 00471   |   |
| 1) Unbalance this design | d roof live load              | s have                | been considered for                         |               |                                   |  |                         |                           |                  |                    |                     | A Peso                    | _        | NOT   |   |
| 5                        |                               |                       |   |               |                                   |  |                         |                           |                  |                    |                     | AD .                      | ONA      | LEUS  |   |
|                          |                               |                       |   |               |                                   |  |                         |                           |                  |                    |                     | J                         | anuar    | y 3,2025  |   |
|                          |                               |                       |   |               |                                   |  |                         |                           |                  |                    |                     |                           |          |   | 7 |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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|          |       |            |     |     |                         | RELEASE FOR CONSTRUCTION  |
|----------|-------|------------|-----|-----|-------------------------|---|
| Job      | Truss | Truss Type | Qty | Ply | Clayton Builder-P24093  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A | VA7   | Valley     | 1   | 1   | Job Reference (optional | LEE'S SUMMIT, MISSOURI  |
|          |       |            |     |     |                         |   |

1-2-11

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. The Dec 3 07:50:56 07/26:25 ID:MrCXGN2rZ97On?9t4R8?9Qyly9j-RfC?PsB70Hq3NSgPqnL8w3uITXbGK vrCDoi7942/07/260:25



4x4 🚅

#### VERTICAL SUPPORT OF FREE END OF CHORD IS REQUIRED.

1-6-11

Scale = 1:14.3

| Loading                                     |  | (psf)   | Spacing   | 2-0-0 |   | CSI  |  | DEFL   | in         | (loc) | l/defl | L/d | PLATES       | GRIP     |
|---|--|---|---|-------|---|--|--|--|------------|-------|--------|-----|--------------|----------|
| TCLL (roof)                                 |  | 25.0  | Plate Grip DOL  | 1.15  |   | TC   | 0.37   | Vert(LL)                                     | n/a        | -     | n/a    | 999 | MT20         | 197/144  |
| TCDL  |  | 10.0  | Lumber DOL  | 1.15  |   | BC   | 0.33   | Vert(CT)                                     | n/a        | -     | n/a    | 999 |              |          |
| BCLL  |  | 0.0*  | Rep Stress Incr   | NO    |   | WB   | 0.00   | Horz(CT)                                     | n/a        | -     | n/a    | n/a |              |          |
| BCDL  |  | 10.0  | Code  | IRC20 | 18/TPI2014  | Matrix-P   |  |  |            |       |        |     | Weight: 4 lb | FT = 20% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>BRACING | 2x4 SPF N<br>2x4 SPF N                         | lo.2<br>lo.2                                    |   |       | <ul> <li>All bearings</li> <li>Provide me<br/>bearing plat</li> <li>1 and 113 ll</li> </ul> | are assumed<br>chanical conne<br>e capable of w<br>o uplift at joint | to be SPF No<br>ection (by oth<br>vithstanding 3<br>3. | o.2 .<br>ers) of truss t<br>5 lb uplift at j | io<br>oint |       |        |     |              |          |
| TOP CHORD                                   | Structural<br>1-7-4 oc p                       | wood she<br>urlins.                             | athing directly appli   | ed or | 10) This truss is<br>Internationa   | designed in a  | ccordance w  | R502.11.1 a                                  | ind        |       |        |     |              |          |
| BOT CHORD                                   | Rigid ceilir<br>bracing.                       | ng directly                                     | applied or 10-0-0 o   | с     | R802.10.2 a<br>L <b>OAD CASE(S</b>  | and referenced<br>Standard   | d standard AN  | ISI/TPI 1.                                   |            |       |        |     |              |          |
| REACTIONS                                   | (size)<br>Max Horiz<br>Max Uplift<br>Max Grav  | 1=1-7-4, 3<br>1=42 (LC<br>1=-35 (LC<br>1=49 (LC | 3=1-7-4<br>8)<br>2 1), 3=-113 (LC 8)<br>8), 3=205 (LC 1)                          |       |   |  |  |  |            |       |        |     |              |          |
| FORCES                                      | (lb) - Maxiı<br>Tension                        | mum Com   | pression/Maximum  |       |   |  |  |  |            |       |        |     |              |          |
| TOP CHORD                                   | 1-2=-59/0                                      |   |   |       |   |  |  |  |            |       |        |     |              |          |
| BOT CHORD                                   | 1-3=0/0  |   |   |       |   |  |  |  |            |       |        |     |              |          |
| NOTES                                       |  |   |   |       |   |  |  |  |            |       |        |     |              |          |
| 1) Wind: ASC<br>Vasd=91m<br>Ke=1.00; (      | CE 7-16; Vult<br>nph; TCDL=6<br>Cat. II; Exp C | =115mph<br>6.0psf; BC<br>; Enclose              | (3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) zone: cantilever | oe)   |   |  |  |  |            |       |        |     |              |          |

- and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) Truss designed for wind loads in the plane of the truss
- only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). Gable studs spaced at 4-0-0 oc. 5)
- This truss has been designed for a 10.0 psf bottom 6) chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf 7) on the bottom chord in all areas where a rectangle
- 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

OF MISSOL ATE ADAM PACE PB----PE-2023000471 January 3,2025



|          |       |            |     |     |                         | RELEASE FOR CONSTRUCTION  |
|----------|-------|------------|-----|-----|-------------------------|---|
| Job      | Truss | Truss Type | Qty | Ply | Clayton Builder-P24093  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A | D04   | Common     | 5   | 1   | Job Reference (optional | R86009704<br>LEE'S SUMMIT, MISSOURI   |
|          |       |            |     |     |                         |   |

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. The Dec 3 07:5:507/20:25 ID:0RN9wHqDnuwenXgrK28aYlylxNe-RfC?PsB70Hq3NSgPqnL8w3uITXbGrWrCDoiN4zJc7



### Scale = 1:61.1 Plate Offsets (X, Y): [1:0-2-0,0-1-8], [5:0-1-0,0-1-8], [9:0-1-8,0-2-0]

| ,  |  |   |  |  |  |  |   |                                       |                          |                               |                          |  |                                    |  |
|--|--|---|--|--|--|--|---|---------------------------------------|--------------------------|-------------------------------|--------------------------|--|------------------------------------|--|
| Loading<br>FCLL (roof)<br>FCDL<br>BCLL<br>BCDL   | (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  | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC201                      | 8/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-S  | 0.71<br>0.39<br>0.27   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.05<br>-0.11<br>0.01          | (loc)<br>6-7<br>6-7<br>6 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | <b>PLATES</b><br>MT20<br>Weight: 98 lb | <b>GRIP</b><br>197/144<br>FT = 20% |  |
| LUMBER<br>FOP CHORD<br>30T CHORD<br>WEBS<br>BRACING<br>FOP CHORD<br>30T CHORD<br>WEBS<br>REACTIONS | 2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2 *Exce<br>1.8E<br>Structural wood she<br>4-10-5 oc purlins, e<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt<br>(size) 6=0-5-8, 7<br>Max Horiz 10=345 (L<br>Max Uplift 6=-137 (LC | ept* 2-9:2x4 SPF 21(<br>athing directly applie<br>xcept end verticals.<br>applied or 9-7-12 or<br>2-7<br>10= Mechanical<br>_C 9)<br>C 12), 10=-125 (LC<br>C 1), 10=875 (LC 1) | 4)<br>500F<br>5)<br>60<br>ed or 7)<br>C<br>8)<br>L(<br>12) | * This truss h<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>Bearings are<br>Refer to gird<br>Provide mec<br>bearing plate<br>6 and 125 lb<br>This truss is<br>International<br>R802.10.2 ar | has been designed<br>na chord in all area<br>by 2-00-00 wide w<br>hy other members<br>assumed to be: ,<br>er(s) for truss to tr<br>hanical connectio<br>e capable of withsi<br>uplift at joint 10.<br>designed in accor<br>Residential Code<br>dor referenced staa<br>Standard | d for a liv<br>is where<br>ill fit betv<br>Joint 6 S<br>uss conr<br>n (by oth<br>tanding 1<br>rdance w<br>sections<br>ndard AN | e load of 20.<br>a rectangle<br>veen the bott<br>SPF No.2 .<br>ers) of truss<br>37 lb uplift a<br>ith the 2018<br>; R502.11.1 ;<br>ISI/TPI 1. | .0psf<br>tom<br>to<br>at joint<br>and |                          |                               |                          |  |                                    |  |
| ORCES  | (lb) - Maximum Com<br>Tension  | pression/Maximum  |  |  |  |  |   |                                       |                          |                               |                          |  |                                    |  |
| I OP CHORD   | 1-2=-1114/191, 2-4=<br>5-6=-817/204, 4-5=-   | -638/234, 1-10=-80<br>615/213   | 9/160,   |  |  |  |   |                                       |                          |                               |                          |  |                                    |  |
| BOT CHORD<br>WEBS  | 9-10=-369/459, 7-9=<br>9-11=0/273, 2-11=0/<br>1-11=-33/608, 5-7=-  | 334/877, 6-7=-90/1<br>/238, 4-7=-68/247,<br>122/538, 2-7=-546/2   | 109<br>265   |  |  |  |   |                                       |                          |                               |                          |  |                                    |  |
| NOTES  |  |   |  |  |  |  |   |                                       |                          |                               |                          |  | ~                                  |  |
| <ol> <li>Unbalance<br/>this design</li> <li>Wind: ASC</li> </ol>                                   | ed roof live loads have<br>n.<br>CE 7-16; Vult=115mph  | been considered for<br>(3-second gust)  | r  |  |  |  |   |                                       |                          |                               | B                        | TE OF I                                | AISSOL                             |  |

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-14 to 5-4-14, Interior (1) 5-4-14 to 13-6-0, Exterior(2R) 13-6-0 to 18-6-0, Interior (1) 18-6-0 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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.







|   | (,,,,), [::::::::::::::::::::::::::::::::   | 1   |  |   |  |   |   |   |                            |                               |                          |  |   |
|---|---|---|--|---|--|---|---|---|----------------------------|-------------------------------|--------------------------|--|---|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (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  | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC2018 | 8/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-S  | 0.45<br>0.79<br>0.70  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.42<br>-0.69<br>0.08              | (loc)<br>9-11<br>9-11<br>9 | l/defl<br>>999<br>>653<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>M18AHS<br>Weight: 216 lb | <b>GRIP</b><br>197/144<br>142/136<br>FT = 20%   |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS  | 2x6 SPF 1650F 1.5E<br>2x6 SPF 1650F 1.5E<br>2x4 SPF No.2<br>Structural wood shee<br>4-4-13 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt<br>(size) 2=0-5-8, 9<br>Max Horiz 2=256 (LC<br>Max Uplift 2=-329 (LC<br>Max Gray 2=1859 (J                  | athing directly applie<br>ccept end verticals.<br>applied or 10-0-0 oc<br>7-9, 5-11<br>⊨0-5-8<br>2 9)<br>C 12), 9=-205 (LC 1<br>C 2) 9=-205 (LC 1   | 4)<br>5)<br>c 7)<br>8)<br>2) LC        | This truss ha<br>chord live loa<br>* This truss h<br>on the bottor<br>3-06-00 tall k<br>chord and ar<br>All bearings<br>Provide mec<br>bearing plate<br>9 and 329 lb<br>This truss is<br>International<br>R802.10.2 a | as been designed<br>ad nonconcurren<br>has been designen<br>n chord in all are<br>by 2-00-00 wide<br>hy other member<br>are assumed to<br>hanical connecti<br>e capable of with<br>uplift at joint 2.<br>designed in accor<br>Residential Cool<br>nd referenced st<br>Standard | d for a 10.0<br>tt with any<br>ed for a liv<br>eas where<br>will fit betw<br>be SPF 16<br>ton (by oth<br>istanding 2<br>ordance w<br>de sections<br>andard AN | ) psf bottom<br>other live loa<br>e load of 20.<br>a rectangle<br>veen the bott<br>DL = 10.0ps<br>50F 1.5E.<br>ers) of truss<br>05 lb uplift a<br>ith the 2018<br>R502.11.1 a<br>ISI/TPI 1. | nds.<br>Opsf<br>om<br>f.<br>to<br>t joint |                            |                               |                          |  |   |
| FORCES  | (lb) - Maximum Com  | pression/Maximum  | )                                      |   |  |   |   |   |                            |                               |                          |  |   |
| TOP CHORD   | 1-2=0/12, 2-3=-3725,<br>5-6=-1654/403, 6-7=<br>7-8=-167/157, 8-9=-1   | /578, 3-5=-3141/519<br>-1650/382,<br>110/73   | 9,                                     |   |  |   |   |   |                            |                               |                          |  |   |
| BOT CHORD   | 2-14=-654/3318, 13-   | 14=-691/3201,   |  |   |  |   |   |   |                            |                               |                          |  |   |
| WEBS  | 3-14=0/246, 3-13=-6<br>5-13=-57/992, 7-11=<br>5-11=-1234/399  | -11=-279/852<br>-16/323, 6-11=-83/73<br>-72/792, 7-9=-1717/   | 39,<br>/442,                           |   |  |   |   |   |                            |                               |                          |  | - CDC   |
| NOTES<br>1) Unbalanc<br>this desig<br>2) Wind: ASI<br>Vasd=91r<br>Ke=1.00;<br>exterior zz<br>Interior (1<br>30-6-0, In<br>and right (<br>C for men<br>shown; Lu | ed roof live loads have<br>n.<br>CE 7-16; Vult=115mph<br>mph; TCDL=6.0psf; BCI<br>Cat. II; Exp C; Enclosed<br>one and C-C Exterior(2I<br>) 4-1-8 to 25-6-0, Exteri<br>terior (1) 30-6-0 to 37-1<br>exposed ; end vertical le<br>nbers and forces & MW<br>umber DOL=1.60 plate | been considered for<br>(3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) -0-10-8 to 4-1-8,<br>ior(2R) 25-6-0 to<br>0-4 zone; cantilevel<br>eft and right expose<br>(FRS for reactions<br>grip DOL=1.60 | r<br>be)<br>r left<br>d;C-             |   |  |   |   |   |                            |                               |                          | ADA<br>ADA<br>PAC                          | M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M |

3) All plates are MT20 plates unless otherwise indicated.

January 3,2025



|                                 |                 |            |  |                               |                            |   | RELEASE FOR CONSTRUCTION  |  |
|---------------------------------|-----------------|------------|--|-------------------------------|----------------------------|---|---|--|
| Job                             | Truss           | Truss Type |  | Qty                           | Ply                        | Clayton Builder-P24093                                  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |  |
| 241117-A                        | VA2             | Valley     |  | 1                             | 1                          | Job Reference (optional                                 | LEE'S SUMMIT, MISSOURI  |  |
| Direct Lumber of Colorado, Denv | er, CO - 80221, | F          | Run: 8.83 S Dec 4 2<br>D:uff9211Cor?X9rah <sup>1</sup> | 024 Print: 8.8<br>WjdmcDyly9ł | 330 S Dec 4<br><-RfC?PsB7( | 2024 MiTek Industries, Inc. Ti<br>Hq3NSgPqnL8w3uITXbGKW | e Dec 3 07:50:56 07/2025  |  |

#### 16-3-7 14-11-7 +\_\_\_\_ 14-11-7 1-4-0 15-0-1 3x4 🛚 7 6 2x4 II 14 5 4x6 ≤ 4 6-9-11 6-3-0 3 F 13 2x4 II 5<sup>12</sup> 2 0-0-4 8 10 9 <sub>2~</sub> 11 12 2x4 🛛 2x4 II 2x4 II 2x4 II 3x4 -

14-11-7

4

Scale = 1:49.2

Plate Offsets (X, Y): [4:0-3-0,0-2-4]

|   | (, .).                 | ,,                         |   |                    |                                 |                       |                |                |         |       |        |     | -             |           |
|---|------------------------|----------------------------|---|--------------------|---------------------------------|-----------------------|----------------|----------------|---------|-------|--------|-----|---------------|-----------|
| Loading   |                        | (psf)                      | Spacing   | 2-0-0              |                                 | CSI                   |                | DEFL           | in      | (loc) | l/defl | L/d | PLATES        | GRIP      |
| TCLL (roof)                                       |                        | 25.0                       | Plate Grip DOL  | 1.15               |                                 | TC                    | 0.27           | Vert(LL)       | n/a     | -     | n/a    | 999 | MT20          | 197/144   |
| TCDL  |                        | 10.0                       | Lumber DOL  | 1.15               |                                 | BC                    | 0.15           | Vert(CT)       | n/a     | -     | n/a    | 999 |               |           |
| BCLL  |                        | 0.0*                       | Rep Stress Incr   | NO                 |                                 | WB                    | 0.10           | Horz(CT)       | 0.00    | 8     | n/a    | n/a |               |           |
| BCDL  |                        | 10.0                       | Code  | IRC201             | 8/TPI2014                       | Matrix-S              |                |                |         |       |        |     | Weight: 51 lb | FT = 20%  |
| LUMBER  |                        |                            |   | 3                  | Truss desigr                    | ned for wind loads    | s in the pl    | ane of the tru | JSS     |       |        |     |               |           |
| TOP CHORD   | 2x4 SPF                | No.2                       |   |                    | only. For stu                   | uds exposed to w      | ind (norm      | al to the face | e),     |       |        |     |               |           |
| BOT CHORD   | 2x4 SPF                | No.2                       |   |                    | see Standar                     | d Industry Gable      | End Deta       | ils as applica | able,   |       |        |     |               |           |
| WEBS  | 2x4 SPF                | No.2                       |   |                    | or consult qu                   | alified building d    | esigner a      | s per ANSI/T   | PI 1.   |       |        |     |               |           |
| OTHERS  | 2x4 SPF                | No.2                       |   | 4                  | Gable requir                    | es continuous bo      | ottom chor     | d bearing.     |         |       |        |     |               |           |
| BRACING   |                        |                            |   | 5                  | Gable studs                     | spaced at 4-0-0       | OC.            |                |         |       |        |     |               |           |
| TOP CHORD   | Structura              | al wood she                | athing directly applie  | ed or <sup>6</sup> | This truss ha                   | as been designed      | for a 10.0     | ) pst bottom   |         |       |        |     |               |           |
|   | 6-0-0 oc               | purlins, ex                | cept end verticals.   | 7                  | chord live loa                  | ad nonconcurren       | t with any     | other live loa | ads.    |       |        |     |               |           |
| BOT CHORD   | Rigid ceil             | ling directly              | applied or 10-0-0 or  | c /                | on the bottor                   | nas been designe      | eu IUI a IIV   | e ioau oi 20.  | opsi    |       |        |     |               |           |
|   | bracing.               |                            |   |                    | 3-06-00 tall b                  | 1 01010 11 all ale    | will fit hetv  | a rectangle    | om      |       |        |     |               |           |
| REACTIONS   | (size)                 | 1=15-0-1                   | , 8=15-0-1, 9=15-0-1  | ,                  | chord and ar                    | by 2 00 00 mae        | s with BC      | DI = 10.005    | f       |       |        |     |               |           |
|   |                        | 10=15-0-                   | 1, 11=15-0-1  | 8                  | All bearings                    | are assumed to b      | be SPF No      | 0.2.           |         |       |        |     |               |           |
|   | Max Horiz              | 1=302 (L0                  | ()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>( | 、 9                | Provide med                     | hanical connection    | on (by oth     | ers) of truss  | to      |       |        |     |               |           |
|   | Max Uplift             | 8=-104 (L                  | .C 9), 9=-120 (LC 12  | ),                 | bearing plate                   | e capable of with     | standing 1     | 04 lb uplift a | t joint |       |        |     |               |           |
|   | May Crev               | 10=-84 (L                  | .C 12), 11=-118 (LC   | 12)                | 8, 120 lb upl                   | ift at joint 9, 84 lb | o uplift at jo | pint 10 and 1  | 18 lb   |       |        |     |               |           |
|   | Max Grav               | 1=103 (L(                  | 5 9), δ=272 (LC 2), 8<br>)_221 (LC 2), 11_25                                    | 6 (I C             | uplift at joint                 | 11.                   |                |                |         |       |        |     |               |           |
|   |                        | (LC 2), IC                 | = 331 (LC 2), 11 = 33   | 0 (LC 1            | <ol><li>This truss is</li></ol> | designed in acco      | ordance w      | ith the 2018   |         |       |        |     |               |           |
| FORCES  | (lb) - Max             | zimum Com                  | pression/Maximum  |                    | International                   | Residential Cod       | e sections     | R502.11.1 a    | and     |       |        |     |               |           |
| I ONOLO   | Tension                |                            | procolori/maximam   |                    | R802.10.2 a                     | nd referenced sta     | andard Ar      | ISI/TPI 1.     |         |       |        |     |               |           |
| TOP CHORD   | 6-8=-230               | /174, 1-2=-                | 421/219, 2-3=-344/1   | 81, <b>L</b>       | DAD CASE(S)                     | Stanuaru              |                |                |         |       |        |     |               |           |
|   | 3-5=-271               | /162, 5-6=-                | 169/107, 6-7=-40/0  |                    |                                 |                       |                |                |         |       |        |     |               |           |
| BOT CHORD   | 1-11=-11               | 6/130, 10-1                | 11=-116/130,  |                    |                                 |                       |                |                |         |       |        |     |               | m         |
| WEBS  | 9-10=-11               | 0/130, 0-9=<br>2/218 3-10- | =-110/130<br>237/156 2-11284  | 5/201              |                                 |                       |                |                |         |       |        |     | OFI           | MIG       |
| NOTEO   | 0 0= 000               | /210, 0 10-                | - 201/100, 2 11- 200  | 5/201              |                                 |                       |                |                |         |       |        | C   | ALE           | NOSCILL   |
| NUIES   |                        |                            | heen ennidered for  | -                  |                                 |                       |                |                |         |       |        | 6   | A.M.          | N.S.      |
| <ol> <li>Unbalanc</li> <li>this design</li> </ol> |                        | loads have                 | been considered for   |                    |                                 |                       |                |                |         |       |        | R   | S/ ADA        | M VEN     |
| 2) Wind AS  | n.<br>CE 7-16: Vi      | ilt-115mph                 | (3-second qust)   |                    |                                 |                       |                |                |         |       |        | 0   | PAT           | SE / N    |
| Vasd=91r  | $D \ge 7 = 10, V = 10$ | =6 0nsf <sup>-</sup> BC    | DI = 6  Onsf h = 35  ft   |                    |                                 |                       |                |                |         |       |        | 14  |               | 1+8       |
| Ke=1.00:  | Cat. II: Exp           | C: Enclose                 | ed: MWFRS (envelop  | e)                 |                                 |                       |                |                |         |       |        | 87  |               |           |
| exterior z  | one and C-C            | C Exterior(2               | 2E) 0-9-1 to 5-9-1,   | -)                 |                                 |                       |                |                |         |       |        | 24  |               | The will  |
| Interior (1                                       | ) 5-9-1 to 16          | 6-4-1 zone;                | cantilever left and ri  | ght                |                                 |                       |                |                |         |       |        | NY  | - COM         | HER EN    |
| exposed ;   | end vertica            | al left and ri             | ght exposed;C-C for   | -                  |                                 |                       |                |                |         |       |        | N.  | OX PE-2023    | 000471    |
| members   | and forces             | & MWFRS                    | for reactions shown;  | ;                  |                                 |                       |                |                |         |       |        | Y   | The last      | 158       |
| Lumber D  | OL=1.60 pl             | ate grip DC                | DL=1.60   |                    |                                 |                       |                |                |         |       |        |     | ASSIG:        | FNO       |
|   |                        |                            |   |                    |                                 |                       |                |                |         |       |        |     | <b>WNA</b>    | LUIS      |
|   |                        |                            |   |                    |                                 |                       |                |                |         |       |        |     | 1000          |           |
|   |                        |                            |   |                    |                                 |                       |                |                |         |       |        |     | Janua         | ry 3,2025 |



|                                 |                 |  |                                |                            |  | RELEASE FOR CONSTRUCTION  |
|---------------------------------|-----------------|--|--------------------------------|----------------------------|--|---|
| Job                             | Truss           | Truss Type                                 | Qty                            | Ply                        | Clayton Builder-P24093                                   | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A                        | VA3             | Valley                                     | 1                              | 1                          | Job Reference (optional                                  | LEE'S SUMMIT, MISSOURI  |
| Direct Lumber of Colorado, Denv | er, CO - 80221, | Run: 8.83 S Dec 4 2<br>ID:uff9211Cor?X9rah | 2024 Print: 8.8<br>WjdmcDyly9l | 330 S Dec 4<br><-RfC?PsB70 | 2024 MiTek Industries, Inc. Ti<br>)Hq3NSgPqnL8w3uITXbGKW | e Dec 3 07:55607/2925   |

5-5-11

13-1-1 11-9-1 11-9-1 1-4-0 11-9-11 5 2x4 II 4 2x4 🛛 3 10 4-11-0 9 2x4 II 2 12 5 F

7-0-0 6  $\otimes$  $\sim$ 8 3x4 🚽 2x4 II 2x4 🛛 2x4 II

11-9-1

Scale = 1:44

| Loading                             | (psf)   | Spacing  | 2-0-0             |   | CSI  |  | DEFL   | in            | (loc) | l/defl | L/d | PLATES        | GRIP     |
|-------------------------------------|---|--|-------------------|---|--|--|--|---------------|-------|--------|-----|---------------|----------|
| TCLL (roof)                         | 25.0  | Plate Grip DOL   | 1.15              |   | TC   | 0.20   | Vert(LL)   | n/a           | -     | n/a    | 999 | MT20          | 197/144  |
| TCDL                                | 10.0  | Lumber DOL   | 1.15              |   | BC   | 0.12   | Vert(CT)   | n/a           | -     | n/a    | 999 |               |          |
| BCLL                                | 0.0*  | Rep Stress Incr  | NO                |   | WB   | 0.05   | Horz(CT)   | 0.00          | 6     | n/a    | n/a |               |          |
| BCDL                                | 10.0  | Code   | IRC201            | B/TPI2014   | Matrix-S   |  |  |               |       |        |     | Weight: 38 lb | FT = 20% |
| LUMBER                              |   |  | 5)                | Gable studs   | spaced at 4-0-0  | oc.  |  |               |       |        |     |               |          |
| TOP CHORD                           | 2x4 SPF No.2  |  | 6)                | This truss ha   | as been designed   | for a 10.0   | ) psf bottom   |               |       |        |     |               |          |
| BOT CHORD                           | 2x4 SPF No.2  |  | ,                 | chord live loa  | ad nonconcurrent   | t with any   | other live loa   | ads.          |       |        |     |               |          |
| WEBS                                | 2x4 SPF No.2  |  | 7)                | * This truss h  | has been designe   | ed for a liv   | e load of 20.  | 0psf          |       |        |     |               |          |
| OTHERS                              | 2x4 SPF No.2  |  |                   | on the bottor   | m chord in all are   | as where   | a rectangle  |               |       |        |     |               |          |
| BRACING                             |   |  |                   | 3-06-00 tall b  | oy 2-00-00 wide v  | will fit betw  | veen the bott  | om            |       |        |     |               |          |
| TOP CHORD<br>BOT CHORD<br>REACTIONS | Structural wood sh<br>6-0-0 oc purlins, e<br>Rigid ceiling direct<br>bracing.<br>(size) 1=11-9- | neathing directly appli<br>except end verticals.<br>Iy applied or 10-0-0 c<br>11, 6=11-9-11, 7=11- | ed or 8)<br>bc 9) | All bearings<br>Provide mec<br>bearing plate<br>6, 104 lb upl | are assumed to b<br>hanical connection<br>capable of withs<br>iff at joint 7 and 1 | s.<br>be SPF No<br>on (by oth<br>standing 1<br>08 lb uplit | 0.2 .<br>ers) of truss t<br>00 lb uplift at<br>t at joint 8. | to<br>t joint |       |        |     |               |          |
|                                     | 8=11-9-   | 11   | 10                | International   | Residential Code   | A sections   | P502 11 1 4  | and           |       |        |     |               |          |
|                                     | Max Horiz 1=240 (   | LC 9)  |                   | R802 10 2 a   | nd referenced sta  | andard AN  | ISI/TPI 1  |               |       |        |     |               |          |
|                                     | Max Uplift 6=-100<br>8=-108   | (LC 9), 7=-104 (LC 1:<br>(LC 12)   | <sup>2),</sup> LC | DAD CASE(S)   | Standard   |  |  |               |       |        |     |               |          |
|                                     | Max Grav 1=122 (<br>7=366 (   | LC 20), 6=266 (LC 1)<br>LC 1), 8=351 (LC 1)  | ,                 |   |  |  |  |               |       |        |     |               |          |
| FORCES                              | (lb) - Maximum Co<br>Tension  | mpression/Maximum  |                   |   |  |  |  |               |       |        |     |               |          |
| TOP CHORD                           | 1-2=-335/173, 2-3<br>4-5=-40/0, 4-6=-23   | =-267/139, 3-4=-161/<br>34/197   | 86,               |   |  |  |  |               |       |        |     |               |          |
| BOT CHORD                           | 1-8=-89/103, 7-8=   | -89/103, 6-7=-89/103   |                   |   |  |  |  |               |       |        |     |               |          |
| WEBS                                | 3-7=-280/229, 2-8   | =-270/216  |                   |   |  |  |  |               |       |        |     |               |          |
| NOTES                               |   |  |                   |   |  |  |  |               |       |        |     |               |          |
| <ol> <li>Unbalance</li> </ol>       | ed roof live loads hav  | e been considered fo   | or                |   |  |  |  |               |       |        |     | A             | Alle     |

- 1) this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 13-1-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.

OF MISSOL ADAM NUMBER NOFFESSIONAL PE-2023000471 E January 3,2025



|          |       |            |     |     |                         | RELEASE FOR CONSTRUCTION  |
|----------|-------|------------|-----|-----|-------------------------|---|
| Job      | Truss | Truss Type | Qty | Ply | Clayton Builder-P24093  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A | A02   | Common     | 8   | 1   | Job Reference (optional | LEE'S SUMMIT, MISSOURI  |
|          |       |            |     |     |                         |   |

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Te Dec 3 0750:4077/20:25 ID:39f4JRzPjfjNl2as4UoOPvylz1K-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWt2Doi7J42wC?f





| 5-2-12 | 13-3-8 | 25-6-0 | 28-6-0 |
|--------|--------|--------|--------|
| 5-2-12 | 8-0-12 | 12-2-8 | 3-0-0  |
|        |        |        |        |

## Plate Offsets (X, Y): [2:Edge,0-3-8]

Scale = 1:80.5

| Loading   | (psf)  | Spacing  | 2-0-0           |  | CSI  |  | DEFL  | in                        | (loc) | l/defl | L/d | PLATES         | GRIP     |
|---|--|--|-----------------|--|--|--|---|---------------------------|-------|--------|-----|----------------|----------|
| TCLL (roof)   | 25.0   | Plate Grip DOL   | 1.15            |  | TC   | 0.92   | Vert(LL)  | -0.24                     | 9-11  | >999   | 240 | MT20           | 197/144  |
| TCDL  | 10.0   | Lumber DOL   | 1.15            |  | BC   | 0.62   | Vert(CT)  | -0.41                     | 9-11  | >818   | 180 |                |          |
| BCLL  | 0.0*   | Rep Stress Incr  | NO              |  | WB   | 0.70   | Horz(CT)  | 0.04                      | 8     | n/a    | n/a |                |          |
| BCDL  | 10.0   | Code   | IRC2018         | 3/TPI2014  | Matrix-S   |  |   |                           |       |        |     | Weight: 156 lb | FT = 20% |
| LUMBER<br>TOP CHORD   | 2x4 SPF 1650F 1.5E   | *Except* 6-7:2x4 SF  | 4)<br>PF        | * This truss h<br>on the bottor  | nas been designed<br>n chord in all area   | d for a liv<br>as where  | e load of 20.0<br>a rectangle   | 0psf                      |       |        |     |                |          |
| BOT CHORD<br>WEBS<br>WEDGE<br><b>BRACING</b><br>TOP CHORD   | No.2<br>2x6 SPF 1650F 1.5E<br>2x4 SPF No.2<br>Left: 2x4 SPF No.2<br>Structural wood shea   | athing directly applied  | 5)<br>6)<br>d,) | 3-06-00 tall b<br>chord and ar<br>All bearings a<br>Provide mec<br>bearing plate<br>2 and 306 lb | by 2-00-00 wide w<br>by other members<br>are assumed to be<br>hanical connection<br>capable of withs<br>uplift at joint 8. | vill fit betw<br>, with BC<br>e SPF 16<br>n (by oth<br>tanding 2 | veen the bott<br>DL = 10.0psi<br>50F 1.5E .<br>ers) of truss t<br>21 lb uplift at | om<br>f.<br>to<br>t joint |       |        |     |                |          |
| BOT CHORD   | except end verticals.<br>Rigid ceiling directly  | applied or 10-0-0 oc   | 7)              | Inis truss is<br>International<br>R802.10.2 ai   | designed in accor<br>Residential Code<br>nd referenced star  | rdance w<br>sections<br>ndard AN                                 | ith the 2018<br>R502.11.1 a<br>ISI/TPI 1.   | and                       |       |        |     |                |          |
| WEBS  | 1 Row at midpt   | 7-8, 6-9, 5-9  | LO              | AD CASE(S)   | Standard   |  |   |                           |       |        |     |                |          |
| REACTIONS   | (size) 2=0-5-8, 8<br>Max Horiz 2=450 (LC<br>Max Uplift 2=-221 (L1<br>Max Grav 2=1396 (L  | 3=0-5-8<br>C 12)<br>C 12), 8=-306 (LC 12<br>.C 2), 8=1354 (LC 2)   | ?)              |  |  |  |   |                           |       |        |     |                |          |
| FORCES  | (lb) - Maximum Com<br>Tension  | pression/Maximum   |                 |  |  |  |   |                           |       |        |     |                |          |
| TOP CHORD   | 1-2=0/6, 2-3=-2615/3<br>5-6=-507/61, 6-7=-4  | 328, 3-5=-1953/257,<br>16/90, 7-8=-1450/274  | 1               |  |  |  |   |                           |       |        |     |                |          |
| BOT CHORD   | 2-12=-642/2288, 11-<br>9-11=-385/1281, 8-9   | 12=-666/2119,<br>=-1/2   |                 |  |  |  |   |                           |       |        |     |                |          |
| WEBS  | 3-12=0/295, 3-11=-6<br>5-11=-75/954, 5-9=-   | 23/324, 6-9=-141/15<br>1214/415, 7-9=-262/1  | 6,<br>I 313     |  |  |  |   |                           |       |        |     | and a          | JOR      |
| NOTES   | ,  | ,  |                 |  |  |  |   |                           |       |        |     | S. OF M        | AIS C    |
| <ol> <li>Unbalance<br/>this design</li> <li>Wind: ASC<br/>Vasd=91n<br/>Ke=1.00;<br/>exterior zo<br/>Interior (1)</li> </ol> | ed roof live loads have<br>n.<br>CE 7-16; Vult=115mph<br>nph; TCDL=6.0psf; BCI<br>Cat. II; Exp C; Enclose<br>one and C-C Exterior(2<br>0.4.1.8 to 25-6.0 Exter | been considered for<br>(3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelope<br>E) -0-10-8 to 4-1-8,<br>ior(2E) 25-6-0 to 28-6 | e)<br>1-4       |  |  |  |   |                           |       |        |     | ADA            | M        |

DOL=1.60 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

exposed;C-C for members and forces & MWFRS for

reactions shown; Lumber DOL=1.60 plate grip

zone; cantilever left and right exposed ; end vertical left



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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|          |       |            |     |     |                         | RELEASE FOR CONSTRUCTION  |
|----------|-------|------------|-----|-----|-------------------------|---|
| Job      | Truss | Truss Type | Qty | Ply | Clayton Builder-P24093  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A | VA4   | Valley     | 1   | 1   | Job Reference (optional | LEE'S SUMMIT, MISSOURI  |
|          |       |            |     |     |                         |   |

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Te Dec 3 07 5:5607/20:25 ID:uff9211Cor?X9rahWjdmcDyly9k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWcDoi7J4ac?1



8-6-11

Scale = 1:25.3

| <b>Loading</b><br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (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   | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC201          | 8/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-P  | 0.24<br>0.14<br>0.05  | <b>DEFL</b><br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>n/a<br>n/a<br>0.00         | (loc)<br>-<br>-<br>5 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | <b>PLATES</b><br>MT20<br>Weight: 26 lb | <b>GRIP</b><br>197/144<br>FT = 20% |  |
|--|---|--|--|---|--|---|---|----------------------------------|----------------------|-----------------------------|--------------------------|--|------------------------------------|--|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2<br>Structural wood she<br>6-0-0 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>(size) 1=8-7-4, §<br>Max Horiz 1=177 (LC<br>Max Grav 1=135 (LC<br>Max Grav 1=135 (LC<br>(LC 1) | athing directly applie<br>cept end verticals.<br>applied or 10-0-0 or<br>5=8-7-4, 6=8-7-4<br>C 9)<br>S 9), 6=-118 (LC 12)<br>C 1), 5=259 (LC 1), 6 | 6)<br>7)<br>ed or 8)<br>9)<br>c<br>10<br>3=403 | This truss ha<br>chord live loa<br>* This truss h<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>All bearings<br>Provide mec<br>bearing plate<br>5 and 118 lb<br>0) This truss is<br>International<br>R802.10.2 ai<br><b>DAD CASE(S)</b> | as been designed<br>ad nonconcurrent<br>has been designe<br>n chord in all area<br>by 2-00-00 wide w<br>ny other members<br>are assumed to b<br>hanical connectic<br>e capable of withs<br>uplift at joint 6.<br>designed in acco<br>Residential Code<br>nd referenced sta<br>Standard | for a 10.0<br>with any<br>d for a liv<br>as where<br>will fit betw<br>s.<br>es SPF No<br>on (by othe<br>tanding 9<br>rdance wi<br>e sections<br>undard AN | ) psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>even the botto<br>0.2.<br>ers) of truss t<br>8 lb uplift at ju<br>th the 2018<br>R502.11.1 a<br>ISI/TPI 1. | ds.<br>Dpsf<br>om<br>oint<br>ind |                      |                             |                          |  |                                    |  |
| FORCES   | (lb) - Maximum Com<br>Tension<br>1-2=-273/134, 2-3=-  | npression/Maximum<br>153/68, 3-4=-40/0,  |  |   |  |   |   |                                  |                      |                             |                          |  |                                    |  |
| BOT CHORD<br>WEBS  | 3-5=-230/222<br>1-6=-66/72, 5-6=-66<br>2-6=-307/272   | /72  |  |   |  |   |   |                                  |                      |                             |                          |  |                                    |  |
| NOTES<br>1) Unbalance<br>this design   | ed roof live loads have   | been considered for  | r  |   |  |   |   |                                  |                      |                             |                          |  |                                    |  |

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 9-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
   Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.





|                                 |                            |            |     |     |                         | RELEASE FOR CONSTRUCTION  |
|---------------------------------|----------------------------|------------|-----|-----|-------------------------|---|
| Job                             | Truss                      | Truss Type | Qty | Ply | Clayton Builder-P24093  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A                        | VA5                        | Valley     | 1   | 1   | Job Reference (optional | LEE'S SUMMIT, MISSOURI  |
| Direct Lumber of Colorado, Denv | e Dec 3 07:50:56 07/269:25 |            |     |     |                         |   |



S

bracing.

Tension

1-4=-39/42

Max Horiz 1=115 (LC 9)

1=5-4-14, 4=5-4-14

Max Uplift 1=-18 (LC 12), 4=-108 (LC 12) Max Grav 1=186 (LC 1), 4=323 (LC 1)

(lb) - Maximum Compression/Maximum

1-2=-167/67, 2-3=-40/0, 2-4=-278/303

Unbalanced roof live loads have been considered for

exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;

Truss designed for wind loads in the plane of the truss

only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing.

This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

Lumber DOL=1.60 plate grip DOL=1.60

Gable studs spaced at 4-0-0 oc.

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 6-8-14 zone; cantilever left and right

**REACTIONS** (size)

FORCES

NOTES

1)

2)

3)

4)

5)

6)

TOP CHORD

BOT CHORD

this design

| Scale = 1:20.3  |   |   |                     |   |  |  |   |                            |       |        |     |               |          |  |
|---|---|---|---------------------|---|--|--|---|----------------------------|-------|--------|-----|---------------|----------|--|
| Loading   | (psf)   | Spacing   | 2-0-0               |   | CSI  |  | DEFL  | in                         | (loc) | l/defl | L/d | PLATES        | GRIP     |  |
| TCLL (roof)   | 25.0  | Plate Grip DOL  | 1.15                |   | тс   | 0.35   | Vert(LL)  | n/a                        | -     | n/a    | 999 | MT20          | 197/144  |  |
| TCDL  | 10.0  | Lumber DOL  | 1.15                |   | BC   | 0.23   | Vert(CT)  | n/a                        | -     | n/a    | 999 |               |          |  |
| BCLL  | 0.0*  | Rep Stress Incr   | NO                  |   | WB   | 0.00   | Horz(CT)  | 0.00                       | 4     | n/a    | n/a |               |          |  |
| BCDL  | 10.0  | Code  | IRC2018             | /TPI2014  | Matrix-P   |  |   |                            |       |        |     | Weight: 15 lb | FT = 20% |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2<br>Structural wood shea<br>5-4-14 oc purlins, e:<br>Rigid ceiling directly | athing directly applied<br>xcept end verticals.<br>applied or 10-0-0 oc | 7)<br>8)<br>1 or 9) | * This truss<br>on the botto<br>3-06-00 tall<br>chord and a<br>All bearings<br>Provide me<br>bearing plat<br>1 and 108 ll | has been design<br>m chord in all an<br>by 2-00-00 wide<br>any other member<br>are assumed to<br>chanical connec-<br>te capable of wit<br>o uplift at joint 4. | ned for a liv<br>reas where<br>will fit betw<br>ers.<br>b be SPF No<br>tion (by oth<br>hstanding 1 | e load of 20.<br>a rectangle<br>veen the bott<br>c.2<br>ers) of truss<br>8 lb uplift at | Opsf<br>com<br>to<br>joint |       |        |     |               |          |  |

5-4-4

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.

LOAD CASE(S) Standard



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| Binnether (Online In Brit | 00 00001 | B          |     |     | 0004 MT-1 Is double to T |   |
|---------------------------|----------|------------|-----|-----|--------------------------|---|
| 241117-A                  | VA6      | Valley     | 1   | 1   | Job Reference (optional  | LEE'S SUMMIT, MISSOURI  |
| Job                       | Truss    | Truss Type | Qty | Ply | Clayton Builder-P24093   | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
|                           |          |            |     |     |                          | RELEASE FOR CONSTRUCTION  |

1-5-11

0-0-4

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| Scale = | 1:15.2 |
|---------|--------|

Plate Offsets (X, Y): [2:Edge,0-1-12]

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (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  | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC201 | 8/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-P   | 0.16<br>0.02<br>0.00  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>n/a<br>n/a<br>0.00    | (loc)<br>-<br>-<br>4 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 6 lb | <b>GRIP</b><br>197/144<br>FT = 20% |
|--|--|---|---------------------------------------|--|---|---|--|-----------------------------|----------------------|-----------------------------|--------------------------|--------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS   | 2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2<br>Structural wood she<br>2-2-7 oc purlins, exi<br>Rigid ceiling directly<br>bracing.<br>(size) 1=2-2-7, 4<br>Max Horiz 1=54 (LC<br>Max Uplift 4=-101 (L<br>Max Grav 1=48 (LC<br>(lb) - Maximum Com | athing directly applie<br>cept end verticals.<br>applied or 10-0-0 or<br>4=2-2-7<br>9)<br>C 9)<br>16), 4=221 (LC 1)<br>pression/Maximum                                   | 7)<br>8)<br>ed or 9)<br>C 1)<br>L     | <ul> <li>* This truss I<br/>on the botton<br/>3-06-00 tall I<br/>chord and an<br/>) All bearings</li> <li>Provide mec<br/>bearing plate<br/>4.</li> <li>This truss is<br/>International<br/>R802.10.2 a</li> </ul> | has been designe<br>m chord in all are:<br>by 2-00-00 wide v<br>ny other members<br>are assumed to b<br>hanical connection<br>e capable of withs<br>designed in accoon<br>Residential Code<br>nd referenced sta<br>Standard | ed for a liv<br>as where<br>will fit betw<br>s.<br>De SPF No<br>on (by oth<br>standing 1<br>ordance wi<br>e sections<br>andard AN | e load of 20.<br>a rectangle<br>veen the bott<br>o.2.<br>ers) of truss i<br>01 lb uplift al<br>ith the 2018<br>; R502.11.1 a<br>ISI/TPI 1. | Dpsf<br>om<br>to<br>t joint |                      |                             |                          |                                |                                    |
| TOP CHORD<br>BOT CHORD   | Tension<br>1-2=-104/41, 2-3=-4<br>1-4=-11/12   | 0/0, 2-4=-208/256   |                                       |  |   |   |  |                             |                      |                             |                          |                                |                                    |
| NOTES<br>1) Unbalanci<br>this desig<br>2) Wind: ASG<br>Vasd=91r<br>Ke=1.00;<br>exterior zo<br>and right of<br>C for men<br>shown; Lu | ed roof live loads have<br>n.<br>CE 7-16; Vult=115mph<br>nph; TCDL=6.0psf; BC<br>Cat. II; Exp C; Enclose<br>one and C-C Exterior(2<br>exposed ; end vertical I<br>nbers and forces & MW<br>umber DOL=1.60 plate                                  | been considered for<br>(3-second gust)<br>DL=6.0psf; h=35ft;<br>d; MWFRS (envelop<br>E) zone; cantilever I<br>eft and right expose<br>/FRS for reactions<br>grip DOL=1.60 | r<br>oe)<br>eft<br>d;C-               |  |   |   |  |                             |                      |                             |                          | STATE OF                       | MISSOUR                            |
| <ol> <li>Truss des<br/>only. For<br/>see Stand<br/>or consult</li> </ol>   | signed for wind loads in<br>studs exposed to wind<br>dard Industry Gable End<br>t qualified building design  | the plane of the trus<br>(normal to the face)<br>d Details as applicat<br>oner as per ANSI/TF   | ss<br>),<br>ple,<br>Pl 1.             |  |   |   |  |                             |                      |                             |                          | S and                          |                                    |

2-1-14

- 4) Gable requires continuous bottom chord bearing.

Gable studs spaced at 4-0-0 oc. 5)

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





|                                 |                         |               |     |     |                         | RELEASE FOR CONSTRUCTION  |
|---------------------------------|-------------------------|---------------|-----|-----|-------------------------|---|
| Job                             | Truss                   | Truss Type    | Qty | Ply | Clayton Builder-P24093  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A                        | C03                     | Common Girder | 1   | 2   | Job Reference (optional | LEE'S SUMMIT, MISSOURI  |
| Direct Lumber of Colorado, Denv | ue Dec 11 020:307/29:25 |               |     |     |                         |   |



|                | 5-1-8 | 11-2-4 | 16-7-4 | 22-0-4 | 24-9-8 | 30-8-8 |  |
|----------------|-------|--------|--------|--------|--------|--------|--|
| Scale = 1:79.5 | 5-1-8 | 6-0-12 | 5-5-0  | 5-5-0  | 2-9-4  | 5-11-0 |  |

## Plate Offsets (X, Y): [1:Edge,0-2-9], [11:0-4-0,0-4-8], [12:0-1-4,0-2-0], [28:0-4-12,Edge]

| Loading     |             | (psf)                     | Spacing                     | 2-0-0          |                | CSI                                      |                      | DEFL                 | in         | (loc)    | l/defl      | L/d      | PLATES              | GRIP              |           |
|-------------|-------------|---------------------------|-----------------------------|----------------|----------------|--|----------------------|----------------------|------------|----------|-------------|----------|---------------------|-------------------|-----------|
| TCLL (roof) |             | 25.0                      | Plate Grip DOL              | 1.15           |                | тс                                       | 0.28                 | Vert(LL)             | -0.17      | 29-30    | >999        | 240      | MT20                | 197/144           |           |
| TCDL        |             | 10.0                      | Lumber DOL                  | 1.15           |                | BC                                       | 0.94                 | Vert(CT)             | -0.30      | 29-30    | >879        | 180      | M18AHS              | 142/136           |           |
| BCLL        |             | 0.0*                      | Rep Stress Incr             | NO             |                | WB                                       | 0.64                 | Horz(CT)             | 0.07       | 26       | n/a         | n/a      |                     |                   |           |
| BCDL        |             | 10.0                      | Code                        | IRC2018/TPI201 | 4              | Matrix-S                                 |                      |                      |            |          |             |          | Weight: 554 lb      | FT = 20%          |           |
|             |             |                           |                             |                |                |  |                      |                      |            |          |             |          | · · · ·             |                   |           |
| LUMBER      |             |                           |                             | BOT CHOR       | RD             | 1-47=-1536/8685, 4                       | 7-48=-               | 1536/8685,           |            | 2) All   | loads are   | e cons   | idered equally ap   | plied to all plie | es,       |
| TOP CHORD   | 2x6 SPF     | 1650F 1.5E                |                             |                |                | 32-48=-1536/8685,                        | 32-49=               | -1536/8685,          |            | exc      | cept if no  | ted as   | front (F) or back   | (B) face in the   | LOAD      |
| BOT CHORD   | 2x6 SPF     | 1650F 1.5E                | E *Except* 28-21:2x6        |                |                | 31-49=-1536/8685,                        | 30-31=               | -1536/8685,          |            | CA       | SE(S) SE    | ection.  | Ply to ply connec   | tions have be     | en<br>D)  |
|             | SPF 2100    | )F 1.8E                   |                             |                |                | 30-50=-1536/8685,                        | 20-51=               | -1530/8085,          |            | pro      |             | distrib  | ute only loads no   | ted as (F) or (   | в),       |
| WEBS        | 2x4 SPF     | No.2                      |                             |                |                | 51-52=-1536/8685,                        | 29-52=               | -1536/8685,          |            | uni      | ess otne    | rwise i  | ndicated.           |                   | 4 6       |
| OTHERS      | 2x4 SPF I   | No.2                      |                             |                |                | 29-53 = -1020/6333,<br>29 54 = 1020/6333 | 27 29                | -1020/0333,          |            | 3) UII   | degian      | 110011   | ive loads have be   | en considered     |           |
| SLIDER      | Left 2x4 S  | SPF No.2                  | 2-8-11                      |                |                | 20-34=-1020/0333,                        | 21-20=               | 420/2000             |            | 4) \A/i  | adesign.    | = 7 16   | · \/ult_115mph (2   | cocond quet)      |           |
| BRACING     |             |                           |                             |                |                | 56-57-438/3088                           | 26-57                | 438/3088             |            | -+) VVII | id. A001    | - /-10   | DI -6 Opef: BCDI    | -6 Opef h=3F      | :f+·      |
| TOP CHORD   | Structura   | I wood shea               | athing directly applied     | or             |                | 25-26-404/493 24                         | -254                 | 14/493               |            | Va<br>Ko | -1 00· C    | at II·F  | vn C: Enclosed      | MWERS (env        | elone)    |
|             | 5-9-12 oc   | purlins, e                | xcept end verticals.        |                |                | 23-24=-161/177 22                        | 23=-1                | 61/177               |            | ext      | erior zon   | e and    | C-C Exterior(2E)    | 0-0-0 to 4-9-8    | (opo)     |
| BOT CHORD   | Rigid ceil  | ing directly              | applied or 10-0-0 oc        |                |                | 21-22=-161/177                           |                      | ,                    |            | Inte     | erior (1) 4 | 4-9-8 t  | o 24-9-8. Exterior  | (2R) 24-9-8 tc    | ,<br>)    |
|             | bracing,    | Except:                   | 00.04.05                    | WEBS           |                | 17-24=-230/143.24                        | -41=-2               | 63/403.              |            | 29       | 9-8. Inte   | rior (1) | 29-9-8 to 30-6-1    | 2 zone: cantil    | ever left |
|             | 6-0-0 0C I  | bracing: 25               | -26,24-25.                  |                |                | 41-42=-252/400, 20                       | )-42=-2              | 42/393,              |            | and      | d right ex  | posed    | ; end vertical left | and right exp     | osed:C-   |
| JUINTS      | 1 Brace a   | a(J(S): 33, 27, 20)       |                             |                |                | 15-26=-690/348, 15                       | 5-33=-2              | 97/569,              |            | Cf       | or memb     | ers an   | d forces & MWFF     | RS for reaction   | IS        |
|             | 34, 35, 30  | 5, 57, 59,                |                             |                |                | 24-33=-337/639, 5-                       | 30=-30               | 8/2103,              |            | sho      | wn; Lum     | nber D   | OL=1.60 plate gri   | p DOL=1.60        |           |
| DEACTIONS   | 41, 42      | 1_5007/0                  | 70.21-0/059                 |                |                | 5-40=-2588/619, 39                       | 9-40=-2              | 541/605,             |            |          |             |          |                     |                   |           |
| REACTIONS   | (ID/SIZE)   | 1=0997/0-                 | -7-0, 21=0/0-5-0,           |                |                | 38-39=-2639/628, 2                       | 29-38=-2             | 2415/597,            |            | 5) Tru   | iss desig   | ned fo   | r wind loads in th  | e plane of the    | truss     |
|             | Max Horiz   | 1-387 (1 (                | C-5-6<br>C 11)              |                |                | 9-29=-655/3840, 9-                       | 37=-44               | 78/894,              |            | onl      | y. For st   | uds ex   | posed to wind (n    | ormal to the fa   | ace),     |
|             | Max Liplift | 1=-033 (1                 | C 12) 21-REL 26-1           | 554            |                | 36-37=-4450/883, 2                       | 27-36=-              | 4511/904,            |            | see      | e Standa    | rd Indu  | ustry Gable End I   | Jetails as appl   | icable,   |
|             | Max Opint   | (I C 12)                  | C(12), 21 = REL, 20 = 1     | 554            |                | 12-27=-878/5229, 1                       | 2-35=-               | 5262/1026,           |            | or       | consult q   | ualifie  | d building design   | er as per ANS     | I/TPI 1.  |
|             | Max Grav    | 1=6071 (I                 | C 27) 21=340 (I C 12)       | )              |                | 34-35=-5286/1026,                        | 26-34=               | -5339/1049,          |            | 6) All   | plates ar   | e MT2    | 0 plates unless o   | therwise indic    | ated.     |
|             |             | 26=6397                   | (LC 1)                      | ,,             |                | 16-33=-517/186, 25                       | -33=-5               | 32/226,              | 0          | 7) All   | plates ar   | e 2x4    | (  ) MT20 unless    | otherwise ind     | icated.   |
| FORCES      | (lb) - Max  | imum Com                  | pression/Maximum            |                |                | 14-34=-7 1/29, 13-3                      | 0=-31/4<br>- 26/26   | , 11-30=-90/3        | 00,<br>/67 |          |             |          | 000                 | TO                |           |
|             | Tension     |                           |                             |                |                | $6_{-40} = 36/126$                       | =-20/20<br>118/7     | 19, 7-39=-273/<br>16 | 04,        |          |             |          | 8. OF I             | MICON             |           |
| TOP CHORD   | 1-2=-1008   | 86/1469, 2-               | 3=-9925/1463,               |                |                | 3-32=-130/1077 18                        | 110/7<br>8-419       | 0,<br>4/77           |            |          |             | 5        | BAE                 | -00 M             | N         |
|             | 3-4=-950    | 1/1424, 4-5               | =-9472/1419,                |                |                | 23-41=-87/73, 19-4                       | 2=-104               | /105.                |            |          |             | E        | N.                  | 10                | N/        |
|             | 5-6=-6904   | 4/924, 6-7=               | -6817/919,                  |                |                | 22-42=-89/104                            |                      | ,                    |            |          |             | B        | s' ADA              | M VC              | × V\      |
|             | 7-8=-6863   | 3/951, 8-9=               | -6710/944,                  | NOTES          |                |  |                      |                      |            |          |             | A        | L PAC               | SE \              | N         |
|             | 9-10=-342   | 21/385, 10-               | 11=-3356/389,               | 1) 2-ply tr    | uee t          | o be connected tog                       | thar wi              | th 10d               |            |          |             | 2 *      | 1),                 | 7 1               | ★Ŋ        |
|             | 11-12=-3    | 337/407, 12               | 2-13=-375/322,              | (0 131"        | uss i<br>'x3") | nails as follows:                        |                      |                      |            |          |             | W        |                     |                   | 2         |
|             | 13-44=-30   | 64/337, 14-               | 44=-361/363,                | Top ch         | ords           | connected as follow                      | s <sup>.</sup> 2x6 - | 2 rows               |            |          |             | R m      |                     | al -              | ~ 9       |
|             | 14-15=-34   | 45/377, 15-               | ·16=-232/292,               | stagger        | red a          | t 0-9-0 oc. 2x4 - 1 r                    | ow at 0-             | 9-0 oc.              |            |          |             |          |                     | BER /             | 5 A       |
|             | 16-1/=-1    | 57/153, 17-               | 45 = -170/230,              | Bottom         | cho            | rds connected as fol                     | lows: 2              | x6 - 2 rows          |            |          |             | N.       | OX PE-2023          | 000471            | VA V      |
|             | 10.40-0     | 10/190, 18-<br>56/200, 20 | 19=-211/190,<br>46- 260/100 | stagger        | red a          | t 0-6-0 oc.                              |                      |                      |            |          |             | V V      | 1 Sal               | 15                | H         |
|             | 20-212      | 00/209, 20-<br>01/148     | 40=-200/199,                | Web co         | onne           | cted as follows: 2x4                     | - 2 row              | s staggered a        | t          |          |             | i:       | USION !!            | TENO              | 1         |
|             | 20-21       | 01/140                    |                             | 0-9-0 o        | c, E>          | cept member 12-27                        | 2x4 - 1              | row at 0-9-0         | oc.        |          |             |          | <b>WNA</b>          | L                 |           |
|             |             |                           |                             |                |                |  |                      |                      |            |          |             |          | una and a second    | 500               |           |

January 3,2025



|                                 |                                       |               |     |     |                         | RELEASE FOR CONSTRUCTION  |
|---------------------------------|---------------------------------------|---------------|-----|-----|-------------------------|---|
| Job                             | Truss                                 | Truss Type    | Qty | Ply | Clayton Builder-P24093  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A                        | C03                                   | Common Girder | 1   | 2   | Job Reference (optional | R86009712<br>LEE'S SUMMIT, MISSOURI   |
| Direct Lumber of Colorado, Denv | ue Dec 11 020307/2025<br>ZKfal?0y95yR |               |     |     |                         |   |

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

9) n/a

- 10) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
  11) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) Bearings are assumed to be: Joint 1 SPF 1650F 1.5E crushing capacity of 425 psi, Joint 26 SPF 2100F 1.8E crushing capacity of 525 psi, Joint 21 SPF 2100F 1.8E crushing capacity of 525 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 933 lb uplift at joint 1 and 1554 lb uplift at joint 26.
- 14) "/\" indicates Released bearing: allow for upward movement at joint(s) 21.
  15) This truss is designed in accordance with the 2018
- 15) 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.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 901 lb down and 160 lb up at 0-4-4, 894 lb down and 164 lb up at 2-4-4, 893 lb down and 161 lb up at 4-4-4, 893 lb down and 161 lb up at 6-4-4, 893 lb down and 161 lb up at 8-4-4, 893 lb down and 161 lb up at 10-4-4, 855 lb down and 137 lb up at 12-4-4, 855 lb down and 137 lb up at 14-4-4, 855 lb down and 137 lb up at 16-4-4, and 855 lb down and 137 lb up at 13-4-4, and 855 lb down and 137 lb up at 20-4-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

# LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (lb/ft)
    - Vert: 1-17=-70, 17-20=-70, 1-21=-20
  - Concentrated Loads (lb)
    - Vert: 27=-855 (B), 47=-901 (B), 48=-894 (B), 49=-893 (B), 50=-893 (B), 51=-893 (B), 52=-893 (B), 53=-855 (B), 54=-855 (B), 55=-855 (B), 57=-855 (B)



|          |       |                           |     |     |                         | RELEASE FOR CONSTRUCTION                                |
|----------|-------|---------------------------|-----|-----|-------------------------|---|
| Job      | Truss | Truss Type                | Qty | Ply | Clayton Builder-P24093  | -Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A | A01   | Monopitch Supported Gable | 1   | 1   | Job Reference (optional | R86009713<br>LEE'S SUMMIT, MISSOURI                     |
| •        |       |                           |     |     |                         |   |

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. The Dec 3 07:5:4407/20:25 ID:R6L5GHQsOpMMFBIds5licvylynF-RfC?PsB70Hq3NSgPqnL8w3uITXbGk VrCDoi7.42J9?#





19-7-0

Scale = 1:68.7

Plate Offsets (X, Y): [2:0-2-3,0-0-3]

| Loading     |             | (psf)       | Spacing                                      | 2-0-0 |                                  | CSI   |            | DEFL             | in    | (loc) | l/defl | L/d  | PLATES            | GRIP   |  |
|-------------|-------------|-------------|--|-------|----------------------------------|---|------------|------------------|-------|-------|--------|------|-------------------|--|--|
| TCLL (roof) |             | 25.0        | Plate Grip DOL                               | 1.15  |                                  | TC  | 0.22       | Vert(LL)         | n/a   | -     | n/a    | 999  | MT20              | 197/144  |  |
| TCDL        |             | 10.0        | Lumber DOL                                   | 1.15  |                                  | BC  | 0.08       | Vert(CT)         | n/a   | -     | n/a    | 999  |                   |  |  |
| BCLL        |             | 0.0*        | Rep Stress Incr                              | NO    |                                  | WB  | 0.15       | Horz(CT)         | 0.00  | 14    | n/a    | n/a  |                   |  |  |
| BCDL        |             | 10.0        | Code   | IRC20 | 18/TPI2014                       | Matrix-S  |            |                  |       |       |        |      | Weight: 100 lb    | FT = 20%   |  |
|             |             |             |  | ,     | WEBS                             | 12-15=-146/144 1  | 1-17=-1    | 40/136           |       |       |        |      |                   |  |  |
|             | 2v4 SDE     | No 2        |  |       | TLD0                             | 10-18=-140/101 9  | 19=-14     | 0/96             |       |       |        |      |                   |  |  |
| BOT CHORD   | 2x4 SPF     | No 2        |  |       | :                                | 3-20=-139/92 7-21   | =-147/1    | 16 6-22=-11      | 0/43  |       |        |      |                   |  |  |
| WERS        | 2x4 SPF     | No 2        |  |       |                                  | 1-23=-229/283   |            | ,                | ,     |       |        |      |                   |  |  |
| OTHERS      | 2x4 SPF     | No 2        |  |       | NOTES                            |   |            |                  |       |       |        |      |                   |  |  |
| SLIDER      | Left 2x4 \  | WW Stud     | 1-10-10                                      |       | 1) Unbalanced                    | roof live loads hav   | o hoon i   | considered fo    | r     |       |        |      |                   |  |  |
| BRACINC     | LOIT ZAT    |             | 1 10 10                                      |       | this design                      |   | e been     |                  | 1     |       |        |      |                   |  |  |
|             | Structure   | l wood obo  | othing directly opply                        | nd or | 2) Wind ASCE                     | 7-16: Vult-115mn  | h (3-ser   | cond quist)      |       |       |        |      |                   |  |  |
| TOP CHORD   | Structura   | a wood she  | atning directly applie                       |       | Vacd_01mpl                       | TCDI =6 Opef: B   |            | Onef: h=35ft     |       |       |        |      |                   |  |  |
|             | 6-0-0 OC    | punins, exi | cept end verticals.                          | •     | Ke-1 00. Ca                      | t II: Exp C: Enclos   | ed MW      | FRS (envelor     | ne)   |       |        |      |                   |  |  |
| BOT CHORD   | bracing     | ing unecity | applied of 10-0-0 0                          | 6     | exterior zone                    | and C-C Corner(   | 3F) -0-1   | 0-8 to 4-1-8     | 50)   |       |        |      |                   |  |  |
| WEBS        | 1 Row at    | midnt       | 13-14  |       | Exterior(2N)                     | 4-1-8 to 19-5-4 zo  | ne: cant   | ilever left and  | I     |       |        |      |                   |  |  |
| DEACTIONS   |             | 2_10 7 0    | 14-10 7 0 15-10                              | 7.0   | right expose                     | d : end vertical left   | expose     | d:C-C for        |       |       |        |      |                   |  |  |
| REACTIONS   | (Size)      | 2=19-7-0,   | 14=19-7-0, 15=19-                            | 7-0,  | members an                       | d forces & MWFR   | S for rea  | ctions shown     | :     |       |        |      |                   |  |  |
|             |             | 20-10 7 (   | ), 10=19-7-0, 19=19                          | 7-0,  | Lumber DOL                       | =1.60 plate grip D  | OL=1.60    | )                | ,     |       |        |      |                   |  |  |
|             |             | 23=19-7-0   |  |       |                                  | <ol> <li>Truss designed for wind loads in the plane of the truss</li> </ol> |            |                  |       |       |        |      |                   |  |  |
|             | Max Horiz   | 2-369 (10   | ,<br>, 12)                                   |       | only. For stu                    | ids exposed to win  | d (norm    | al to the face   | ),    |       |        |      |                   |  |  |
|             | Max Liplift | 14-23 (L    | C 12) 15-54 (I C 1                           | 2)    | see Standar                      | d Industry Gable E  | nd Deta    | ils as applica   | ble,  |       |        |      |                   |  |  |
|             | Max Opint   | 17-55 (L    | C(12), $13=-54$ (LC 1<br>C(12), 18=-54 (LC 1 | 2),   | or consult qu                    | alified building des  | signer as  | s per ANSI/TI    | 기 1.  |       |        |      |                   |  |  |
|             |             | 19=-55 (L   | C(12), $10=34$ (LC 1<br>C(12), 20=-52 (LC 1  | 2)    | <ol><li>All plates are</li></ol> | 2x4 (  ) MT20 un  | less oth   | erwise indicat   | ted.  |       |        |      |                   |  |  |
|             |             | 21=-67 (I   | C 12), 22=-13 (I C 1                         | 2)    | 5) Gable requir                  | es continuous bott  | om chor    | d bearing.       |       |       |        |      |                   |  |  |
|             |             | 23=-155 (   | LC 12)                                       | _/,   | 6) Gable studs                   | spaced at 2-0-0 oc  |            |                  |       |       |        |      |                   |  |  |
|             | Max Grav    | 2=207 (LC   | C 21), 14=69 (LC 1),                         |       | <ol><li>This truss hat</li></ol> | s been designed f   | or a 10.0  | 0 psf bottom     |       |       |        |      |                   |  |  |
|             |             | 15=188 (L   | C 1), 17=179 (LC 1                           |       | chord live loa                   | ad nonconcurrent v  | vith any   | other live loa   | ds.   |       |        |      | 000               | ADD  |  |
|             |             | 18=180 (L   | _C 1), 19=181 (LC 1                          | ).    | <li>8) * This truss ł</li>       | as been designed  | for a liv  | e load of 20.0   | Opsf  |       |        |      | A OF M            | ALC.   |  |
|             |             | 20=177 (L   | _C 1), 21=191 (LC 1                          | ),    | on the bottor                    | n chord in all areas  | s where    | a rectangle      |       |       |        | 5    | BAR               | -oso th  |  |
|             |             | 22=134 (L   | _C 1), 23=306 (LC 1                          | )     | 3-06-00 tall t                   | y 2-00-00 wide wi   | I fit betv | veen the botto   | om    |       |        | B    | AN .              | N.S.   |  |
| FORCES      | (lb) - Max  | kimum Com   | pression/Maximum                             |       | chord and ar                     | y other members.  |            |                  |       |       |        | R    | SY ADA            | M VEN  |  |
|             | Tension     |             |  |       | 9) All bearings                  | are assumed to be   | SPF No     | 0.2.             |       |       |        | 2    | PAC               | EVN  |  |
| TOP CHORD   | 1-2=0/0,    | 2-4=-478/1  | 56, 4-6=-371/111,                            |       | 10) Provide mec                  | hanical connection  | (by oth    | ers) of truss t  | 0     |       |        | N +  |                   | 1+8  |  |
|             | 6-7=-344    | /107, 7-8=- | 293/89, 8-9=-249/74                          | 1,    | bearing plate                    | capable of withst   | anding 2   | 3 Ib uplift at j | oint  |       | /      | 'W   |                   |  |  |
|             | 9-10=-20    | 3/59, 10-11 | =-155/44, 11-12=-9                           | 3/29, | 14, 54 ID UPI                    | It at joint 15, 55 lb   | uplint at  | Joint 17, 54 lt  | )     |       | - (    | 12 - |                   | en la Br   |  |
|             | 12-13=-3    | 2/15, 13-14 | =-54/53                                      |       | uplift at joint                  | 18, 55 ID UPIIΠ at jo   | Dint 19, s | 52 ID UPIIIT at  | joint |       |        |      | NUNI              |  |  |
| BOT CHORD   | 2-23=-1/    | 1, 22-23=-1 | /1, 21-22=-1/1,                              |       | 20, 67 ib upi                    | ntatjoint 21, 13 ib   | upint at   | joint 22 and     | 100   |       |        | N    | O PE-2023         | 00471  |  |
|             | 20-21=-1    | /1, 19-20=- | 1/1, 18-19=-1/1,                             |       | 11) This trucs is                | designed in accord  |            | ith the 2019     |       |       |        | (Y   | The second second | 1 RA   |  |
|             | 17-18=-1    | /1, 15-17=- | 1/1, 14-15=-1/1                              |       | International                    | Residential Code  | sections   | P502 11 1 2      | nd    |       |        |      | A Ser             | NO'A   |  |
|             |             |             |  |       | R802 10 2 a                      | ncolucilia COUC   | dard AN    | ISI/TPI 1        | nu    |       |        |      | <b>NONA</b>       | LENZ   |  |
|             |             |             |  |       |                                  | Stondard  |            |                  |       |       |        |      | am                | and the second s |  |
|             |             |             |  |       | LUAD CASE(S)                     | Sianuaru  |            |                  |       |       |        |      |                   |  |  |

January 3,2025

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|          |       |            |     |     |                         | RELEASE FOR CONSTRUCTION  |
|----------|-------|------------|-----|-----|-------------------------|---|
| Job      | Truss | Truss Type | Qty | Ply | Clayton Builder-P24093  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A | VA1   | Valley     | 1   | 1   | Job Reference (optional | R86009714<br>LEE'S SUMMIT, MISSOURI   |
|          | •     |            |     |     |                         |   |

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. The Dec 3 07:55 07/29:25 ID:mokRr2u0MVrMy\_YWAWAIdRyIz1R-RfC?PsB70Hq3NSgPqnL8w3uITXb6 KWrCDor 4zu2?



Scale = 1:54.3

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   |  | (psf)<br>25.0<br>10.0<br>0.0*<br>10.0 | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code            | 2-0-0<br>1.15<br>1.15<br>NO<br>IRC20 | 18/TPI2014 | CSI<br>TC<br>BC<br>WB<br>Matrix-S   | 0.43<br>0.26<br>0.15   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>n/a<br>n/a<br>0.00           | (loc)<br>-<br>-<br>8 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 65 lb | <b>GRIP</b><br>197/144<br>FT = 20% |
|--|--|---------------------------------------|--|--------------------------------------|------------|---|--|---|------------------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | JMBER           DP CHORD         2x4 SPF No.2           DT CHORD         2x4 SPF No.2           EBS         2x4 SPF No.2           THERS         2x4 SPF No.2           RACING         0           DP CHORD         Structural wood sheathing directly applied of 6-0-0 oc purlins, except end verticals.           DT CHORD         Structural wood sheathing directly applied or 10-0-0 oc bracing.           EACTIONS         (size)         1=18-2-7, 8=18-2-7, 9=18-2-7, 11=18-2-7, 12=18-2-7           Max Horiz         1=364 (LC 9)         Max Uplift 8=-111 (LC 9), 9=-98 (LC 12), 11=-97 (LC 12), 12=-159 (LC 12), 11=-97 (LC 2), 12=-59 (LC 12), 12=-507 (LC 2), 12=507 (LC 2), 12=507 (LC 2), 12=507 (LC 2) |                                       |  |                                      |            | es continuous boti<br>spaced at 4-0-0 o<br>is been designed f<br>ad nonconcurrent<br>has been designed<br>in chord in all area<br>by 2-00-00 wide w<br>hy other members<br>are assumed to be<br>hanical connection<br>e capable of withst<br>at joint 9, 97 lb up<br>12.<br>designed in accor<br>Residential Code<br>nd referenced star<br>Standard | tom chor<br>c.<br>for a 10.0<br>with any<br>d for a liv<br>is where<br>ill fit betv<br>, with BC<br>e SPF No<br>n (by oth<br>landing 1<br>plift at joi<br>rdance w<br>sections<br>ndard AN | d bearing.<br>D psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>veen the botto<br>DL = 10.0psf<br>DL = 10.0psf<br>DL = 10.0psf<br>it lib uplift at<br>nt 11 and 155<br>ith the 2018<br>is R502.11.1 at<br>USI/TPI 1. | ds.<br>Dpsf<br>om<br>joint<br>9 lb |                      |                             |                          |                                 |                                    |
| FORCES   | (lb) - Maxi  | mum Com                               | pression/Maximum   |                                      |            |   |  |   |                                    |                      |                             |                          |                                 |                                    |
| TOP CHORD  | Tension<br>1-2=-446/2<br>5-6=-177/   | 251, 2-4=-3<br>126, 6-7=-4            | 340/196, 4-5=-268/1<br>40/0, 6-8=-235/158  | 75,                                  |            |   |  |   |                                    |                      |                             |                          |                                 |                                    |
| BOT CHORD  | 1-12=-140<br>9-11=-140   | )/154, 11-1<br>)/154, 8-9=            | 2=-140/154,<br>-140/154  |                                      |            |   |  |   |                                    |                      |                             |                          |                                 |                                    |
| WEBS   | 5-9=-277/  | 190, 4-11=                            | -256/150, 2-12=-384  | /223                                 |            |   |  |   |                                    |                      |                             |                          | 000                             | The                                |
| NOTES  |  |                                       |  |                                      |            |   |  |   |                                    |                      |                             |                          | OF I                            | MISC                               |
| <ol> <li>Unbalanc<br/>this desig</li> <li>Wind: AS<br/>Vasd=91r<br/>Ke=1.00:</li> </ol>              | ed roof live lo<br>n.<br>CE 7-16; Vul<br>nph; TCDL=0<br>Cat. II: Exp.(   | bads have<br>t=115mph<br>6.0psf; BC   | been considered for<br>(3-second gust)<br>DL=6.0psf; h=35ft;<br>d: MWERS (enveloped) | ۵)                                   |            |   |  |   |                                    |                      |                             |                          | STATE ADA                       | M                                  |

- Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 19-6-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



January 3,2025

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PE-202300047

RSSIONAL

|                                 |                  |  |                                 |                            |   | RELEASE FOR CONSTRUCTION   |
|---------------------------------|------------------|--|---------------------------------|----------------------------|---|--|
| Job                             | Truss            | Truss Type                               | Qty                             | Ply                        | Clayton Builder-P24093                                  | AS NOTED FOR PLAN REVIEW<br>-Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES<br>READINGT 15 |
| 241117-A                        | VA10             | Valley                                   | 1                               | 1                          | Job Reference (optional                                 | LEE'S SUMMIT, MISSOURI   |
| Direct Lumber of Colorado, Denv | ver, CO - 80221, | Run: 8.83 S Dec 4<br>ID:uff9211Cor?X9ral | 2024 Print: 8.8<br>hWjdmcDyly9l | 830 S Dec 4<br>k-RfC?PsB70 | 2024 MiTek Industries, Inc. T<br>)Hq3NSgPqnL8w3uITXbGKW | e Dec 3 07:50:56 07/210:25<br>CDoi7J42621  |
|                                 |                  |  |                                 |                            |   |  |







Scale = 1:24.1

| Loading                   | (psf)  | Spacing                                       | 2-0-0               |                                | csi                                   |                         | DEFL                                | in   | (loc) | l/defl | L/d | PLATES       | GRIP     |
|---------------------------|--|---|---------------------|--------------------------------|---------------------------------------|-------------------------|-------------------------------------|------|-------|--------|-----|--------------|----------|
| TCLL (roof)               | 25.0   | Plate Grip DOL                                | 1.15                |                                | тс                                    | 0.09                    | Vert(LL)                            | n/a  | -     | n/a    | 999 | MT20         | 197/144  |
| TCDL                      | 10.0   | Lumber DOL                                    | 1.15                |                                | BC                                    | 0.05                    | Vert(TL)                            | n/a  | -     | n/a    | 999 |              |          |
| BCLL                      | 0.0*   | Rep Stress Incr                               | NO                  |                                | WB                                    | 0.00                    | Horiz(TL)                           | 0.00 | 3     | n/a    | n/a |              |          |
| BCDL                      | 10.0   | Code  | IRC2018             | /TPI2014                       | Matrix-P                              |                         |                                     |      |       |        |     | Weight: 7 lb | FT = 20% |
| LUMBER                    |  |   | 7)                  | * This truss h                 | nas been designe                      | d for a liv             | e load of 20.0                      | Opsf |       |        |     |              |          |
| TOP CHORD                 | 2x4 SPF No.2                                   |   |                     | on the bottor                  | n chord in all area                   | as where                | a rectangle                         |      |       |        |     |              |          |
| BOT CHORD                 | 2x4 SPF No.2                                   |   |                     | 3-06-00 tall t                 | by 2-00-00 wide w                     | /ill fit betw           | een the botte                       | om   |       |        |     |              |          |
| WEBS                      | 2x4 SPF No.2                                   |   |                     | chord and ar                   | ny other members                      | 5.<br>                  |                                     |      |       |        |     |              |          |
| BRACING                   |  |   | 8)                  | All bearings                   | are assumed to b                      | e SPF No                | ).2 .                               | -    |       |        |     |              |          |
| TOP CHORD                 | Structural wood sheat<br>3-0-7 oc purlins, exc | athing directly applic<br>cept end verticals. | ed or <sup>9)</sup> | bearing plate                  | nanical connectio<br>capable of withs | n (by othe<br>tanding 1 | ers) of truss t<br>7 lb uplift at j | oint |       |        |     |              |          |
| BOT CHORD                 | Rigid ceiling directly<br>bracing.             | applied or 10-0-0 o                           | c 10)               | 1 and 25 lb u<br>This truss is | plift at joint 3.<br>designed in acco | rdance wi               | th the 2018                         |      |       |        |     |              |          |
| REACTIONS                 | (size) 1=2-11-14                               | 4, 3=2-11-14                                  |                     | International                  | Residential Code                      | sections                | R502.11.1 a                         | ind  |       |        |     |              |          |
|                           | Max Horiz 1=42 (LC                             | 9)  |                     | R802.10.2 a                    | nd referenced sta                     | ndard AN                | SI/TPI 1.                           |      |       |        |     |              |          |
|                           | Max Uplift 1=-17 (LC                           | (LC 12), 3=-25 (LC 12)                        | LO                  | AD CASE(S)                     | Standard                              |                         |                                     |      |       |        |     |              |          |
|                           | Max Grav 1=96 (LC                              | 1), 3=96 (LC 1)                               |                     |                                |                                       |                         |                                     |      |       |        |     |              |          |
| FORCES                    | (lb) - Maximum Com<br>Tension                  | pression/Maximum                              |                     |                                |                                       |                         |                                     |      |       |        |     |              |          |
| TOP CHORD                 | 1-2=-55/37, 2-3=-75/                           | /88   |                     |                                |                                       |                         |                                     |      |       |        |     |              |          |
| BOT CHORD                 | 1-3=-19/20                                     |   |                     |                                |                                       |                         |                                     |      |       |        |     |              |          |
| NOTES                     |  |   |                     |                                |                                       |                         |                                     |      |       |        |     |              |          |
| 1) Unbalanc<br>this desig | ed roof live loads have<br>n.                  | been considered fo                            | r                   |                                |                                       |                         |                                     |      |       |        |     |              |          |
| 2) Wind: AS               | Wind: ASCE 7-16; Vult=115mph (3-second gust)   |   |                     |                                |                                       |                         |                                     |      |       |        |     |              |          |
| Vasd=91r                  | nph; TCDL=6.0psf; BC                           | DL=6.0psf; h=35ft;                            |                     |                                |                                       |                         |                                     |      |       |        |     |              |          |
| Ke=1.00;                  | Cat. II; Exp C; Enclose                        | d; MWFRS (envelop                             | be)                 |                                |                                       |                         |                                     |      |       |        |     |              |          |

- exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing.

4)

Gable studs spaced at 4-0-0 oc. 5)

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

OF MISSOL E ADAM INPR OFFESSIONAL EN PE-2023000471 January 3,2025



|  |                       |  |                             |  |                   |                                |                     |                           |                        |                          | RELEASE                              | FOR CONSTRUCTION  |
|--|-----------------------|--|-----------------------------|--|-------------------|--------------------------------|---------------------|---------------------------|------------------------|--------------------------|--------------------------------------|---|
| Job                                    | Truss                 |  | Truss Type                  |  | Qty               | / Ply                          | C                   | Clayton Bu                | ilder-P2               | 4093 <sup>.</sup>        | AS NOTE<br>Lot 186- 3221 S-<br>DEVEL | D FOR PLAN REVIEW<br>W Arboridge Cir<br>OPMENT SERVICES |
| 241117-A                               | VA11                  |  | Valley                      |  | 1                 | 1                              | J                   | ob Refere                 | ence (op               | tional                   | LEE'S                                | R86009716<br>SUMMIT, MISSOURI                           |
| Direct Lumber of Colorad               | lo, Denver, CO - 8    | 0221,  |                             | Run: 8.83 S Dec 4<br>ID:ff5fyfmAPdv8b2 | 1 2024 F<br>2MOdS | Print: 8.830 S<br>eYcylz0J-RfC | Dec 4 20<br>?PsB70H | 024 MiTek lı<br>q3NSgPqnl | ndustries,<br>L8w3uIT> | Inc. Tu<br>(bGKWr        | e Dec 3 07:50:55<br>rCDoi7J4zJC?i    | 07/2025   |
|  |                       |  |                             | <u>4-4-4</u><br>4-4-4                  |                   |                                | <u>(</u>            | 6-2-4<br>-10-0            | $\neg$                 |                          |                                      |   |
|  |                       |  |                             | 4-4-14                                 |                   |                                |                     |                           |                        |                          |                                      |   |
|  |                       | -  |                             |  |                   | 2x4                            | Ш                   | 5                         | 3                      |                          |                                      |   |
|  | 2-7-3                 | 4  | 5 T<br>1                    |  |                   | 2                              | 1                   |                           |                        |                          | 1-10-0                               |   |
|  |                       | - 0  |                             |  |                   |                                | 4                   |                           |                        |                          |                                      |   |
|  |                       |  | 2x4                         | 1 =                                    |                   | 2x4                            | I                   |                           |                        |                          |                                      |   |
| Scale = 1:19.5                         |                       |  |                             | 4-4-4                                  |                   |                                |                     |                           |                        |                          |                                      |   |
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL | (psf)<br>25.0<br>10.0 | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr | 2-0-0<br>1.15<br>1.15<br>NO | CSI<br>TC<br>BC<br>WB                  | 0.29<br>0.13      | DEFL<br>Vert(LL)<br>Vert(CT)   | in<br>n/a<br>n/a    | (loc)                     | l/defl<br>n/a<br>n/a   | L/d<br>999<br>999<br>9/a | PLATES<br>MT20                       | <b>GRIP</b><br>197/144                                  |
| BCDL                                   | 10.0                  | Code   | IRC2018/TPI2014             | Matrix-P                               | 0.00              | 1012(01)                       | 0.00                | 4                         | n/d                    | 11/a                     | Weight: 13 lb                        | FT = 20%  |
|  |                       |  | 7) * This truss h           | as been designed fo                    | or a liv          | e load of 20                   | Onsf                |                           |                        |                          |                                      |   |

| LOWIDEN   |   |
|-----------|---|
| 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<br>4-4-14 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc   |

y applied or 10-0-0 oc REACTIONS (size) 1=4-4-14, 4=4-4-14 Max Horiz 1=105 (LC 9) Max Uplift 4=-122 (LC 12) Max Grav 1=119 (LC 1), 4=335 (LC 1) FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-168/63, 2-3=-53/0, 2-4=-300/334 BOT CHORD 1-4=-30/33

Tension

### NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 6-2-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. 4)

Gable studs spaced at 4-0-0 oc. 5)

6)

This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

All bearings are assumed to be SPF No.2 . 8)

Provide mechanical connection (by others) of truss to 9) bearing plate capable of withstanding 122 lb uplift at joint

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.

LOAD CASE(S) Standard



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|          |       |            |     |     |                         | RELEASE FOR CONSTRUCTION                               |
|----------|-------|------------|-----|-----|-------------------------|--|
| Job      | Truss | Truss Type | Qty | Ply | Clayton Builder-P24093  | -Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT OFFICES |
| 241117-A | VA12  | Valley     | 1   | 1   | Job Reference (optional | LEE'S SUMMIT, MISSOURI                                 |
|          |       |            |     |     |                         |  |

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Te Dec 3 07:5:5/07/20:25 ID:uff9211Cor?X9rahWjdmcDyly9k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW CDoi7J4sec?



7-6-11

Scale = 1:24.5

|  |   |  |  |  | -  |   |  |                                       |       |        |     |               |          |
|--|---|--|--|--|--|---|--|---------------------------------------|-------|--------|-----|---------------|----------|
| Loading  | (psf)   | Spacing  | 2-0-0  |  | CSI  |   | DEFL   | in                                    | (loc) | l/defl | L/d | PLATES        | GRIP     |
| TCLL (roof)  | 25.0  | Plate Grip DOL   | 1.15   |  | тс   | 0.30  | Vert(LL)   | n/a                                   | -     | n/a    | 999 | MT20          | 197/144  |
| TCDL   | 10.0  | Lumber DOL   | 1.15   |  | BC   | 0.11  | Vert(CT)   | n/a                                   | -     | n/a    | 999 |               |          |
| BCLL   | 0.0*  | Rep Stress Incr  | NO   |  | WB   | 0.04  | Horz(CT)   | 0.00                                  | 5     | n/a    | n/a |               |          |
| BCDL   | 10.0  | Code   | IRC2018  | 3/TPI2014  | Matrix-P   |   |  |                                       |       |        |     | Weight: 23 lb | FT = 20% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2<br>Structural wood shea<br>6-0-0 oc purlins, exc<br>Rigid ceiling directly<br>bracing.<br>(size) 1=7-7-4, 5<br>Max Horiz 1=167 (LC<br>Max Upliff 5=-128 (LI<br>Max Grav 1=98 (LC<br>(LC 1) | athing directly applied<br>cept end verticals.<br>applied or 10-0-0 oc<br>i=7-7-4, 6=7-7-4<br>C 9)<br>C 9), 6=-89 (LC 12)<br>20), 5=323 (LC 1), 6: | 6)<br>7)<br>d or 8)<br>9)<br>10]<br>=325 <b>LO</b> | This truss ha<br>chord live loa<br>* This truss h<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>All bearings.<br>Provide mec<br>bearing plate<br>5 and 89 lb u<br>1 This truss is<br>International<br>R802.10.2 an | is been designed f<br>ad nonconcurrent v<br>has been designed<br>in chord in all area:<br>by 2-00-00 wide wi<br>hy other members.<br>are assumed to be<br>hanical connection<br>capable of withst<br>uplift at joint 6.<br>designed in accord<br>Residential Code<br>ind referenced star<br>Standard | for a 10.<br>with any<br>f for a liv<br>s where<br>ill fit betw<br>e SPF No<br>h (by oth<br>anding 1<br>dance w<br>sections<br>ndard AN | ) psf bottom<br>other live load<br>e load of 20.0<br>a rectangle<br>veen the botto<br>0.2.<br>ers) of truss to<br>28 lb uplift at<br>ith the 2018<br>R502.11.1 a<br>ISI/TPI 1. | ds.<br>)psf<br>om<br>o<br>joint<br>nd |       |        |     |               |          |
| FORCES   | (lb) - Maximum Com<br>Tension   | pression/Maximum   |  |  |  |   |  |                                       |       |        |     |               |          |
| TOP CHORD  | 1-2=-273/116, 2-3=-<br>3-5=-292/285   | 173/59, 3-4=-53/0,   |  |  |  |   |  |                                       |       |        |     |               |          |
| BOT CHORD  | 1-6=-58/63. 5-6=-58/  | /63  |  |  |  |   |  |                                       |       |        |     |               |          |
| WEBS   | 2-6=-239/228  |  |  |  |  |   |  |                                       |       |        |     |               |          |
| NOTES  |   |  |  |  |  |   |  |                                       |       |        |     |               |          |
| 1) Unbalance   | ed roof live loads have   | been considered for  |  |  |  |   |  |                                       |       |        |     |               |          |
| 2) Wind: AS  | <br>CE 7-16; Vult=115mph  | (3-second gust)  |  |  |  |   |  |                                       |       |        |     | ALLE          | and      |

- 2 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 9-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. 4)
- 5) Gable studs spaced at 4-0-0 oc.





|          |       |            |     |     |                         | RELEASE FOR CONSTRUCTION                                |
|----------|-------|------------|-----|-----|-------------------------|---|
| Job      | Truss | Truss Type | Qty | Ply | Clayton Builder-P24093  | -Lot 186- 3221 SW Arboridge Cir<br>DEVELOPMENT SERVICES |
| 241117-A | VA13  | Valley     | 1   | 1   | Job Reference (optional | R86009718<br>LEE'S SUMMIT, MISSOURI                     |
|          |       |            |     |     |                         |   |

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Te Dec 3 07:50:5/07/269:25 ID:uff9211Cor?X9rahWjdmcDyly9k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW CDoi7J4coC?P





| Scale = | 1:41.3 |
|---------|--------|
|---------|--------|

BOT CHORD

FORCES

**REACTIONS** (size)

| Loading                                  | (psf)  | Spacing                 | 2-0-0             |   | CSI  |   | DEFL   | in            | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--|--|-------------------------|-------------------|---|--|---|--|---------------|-------|--------|-----|---------------|----------|
| TCLL (roof)                              | 25.0   | Plate Grip DOL          | 1.15              |   | TC   | 0.53  | Vert(LL)   | n/a           | -     | n/a    | 999 | MT20          | 197/144  |
| TCDL                                     | 10.0   | Lumber DOL              | 1.15              |   | BC   | 0.27  | Vert(CT)   | n/a           | -     | n/a    | 999 |               |          |
| BCLL                                     | 0.0*   | Rep Stress Incr         | NO                |   | WB   | 0.06  | Horz(CT)   | 0.00          | 5     | n/a    | n/a |               |          |
| BCDL                                     | 10.0   | Code                    | IRC2018/T         | PI2014  | Matrix-S   |   |  |               |       |        |     | Weight: 34 lb | FT = 20% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS | 2x4 SPF No.2<br>2x4 SPF No.2<br>2x4 SPF No.2 |                         | 6) T<br>c<br>7) * | This truss has<br>chord live loa<br>This truss h<br>on the botton | s been designe<br>Id nonconcurrer<br>Ias been design<br>In chord in all ar | ed for a 10.0<br>nt with any<br>ned for a liv<br>eas where<br>will fit betw | ) psf bottom<br>other live loa<br>e load of 20.<br>a rectangle | ads.<br>.0psf |       |        |     |               |          |
| BRACING<br>TOP CHORD                     | Structural wood shea                         | athing directly applied | or 8) A           | chord and an  | y other membe  | be SPF No   | ).2 .  | te.           |       |        |     |               |          |

10-9-1

9) Provide mechanical connection (by others) of truss to

- bearing plate capable of withstanding 120 lb uplift at joint 5 and 161 lb uplift at joint 6. 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.

LOAD CASE(S) Standard



Max Horiz 1=229 (LC 9)

(LC 1)

bracing.

6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 6-0-0 oc

Max Uplift 5=-120 (LC 9), 6=-161 (LC 12)

(lb) - Maximum Compression/Maximum

Max Grav 1=218 (LC 1), 5=262 (LC 1), 6=550

1=10-9-11, 5=10-9-11, 6=10-9-11

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 12-7-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc. 5)







21. The design does not take into account any dynamic