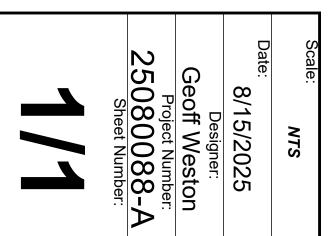


FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS. \*\* DAMAGED COMPONENTS SHOULD NOT BE INSTALLED UNLESS TOLD TO BY THE COMPONENT PLANT. \*\* ALL BEARING POINTS MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS.



REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS

1st FLOOR PLACEMENT PLAN



of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio Drive: Madison, WI 53179

| Revisions | sions |
|-----------|-------|
| 00/00/00  | Name  |
| 0/00/00   | Name  |
|           |       |

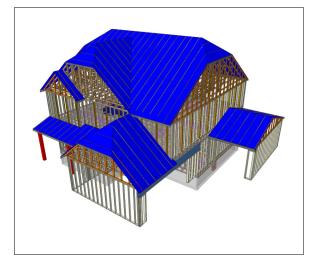


Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450

Builder: HH Hunt Homes Raleigh

**Model:** Grayson EC 3CG SL RH - 1st Floor



### THE PLACEMENT PLAN NOTES:

- 1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
- 2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
- 3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
- 4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
- 5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
- 6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
- 7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
- 8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.
- 9. All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the building designer and or contractor.

| Approved By: Da | e: |
|-----------------|----|
|-----------------|----|



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25080088-A

32 Magnolia Acres-Crawl-Grayson EC 3CG SL RH

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I75669039 thru I75669052

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

North Carolina COA: C-0844



August 18,2025

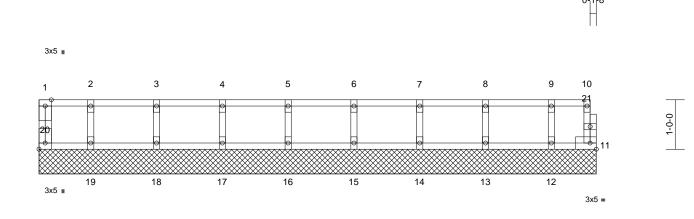
Gilbert, Eric

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO 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.

| Job        | Truss | Truss Type            | Qty | Ply | 32 Magnolia Acres-Crawl-Grayson EC 3CG SL RH |
|------------|-------|-----------------------|-----|-----|--|
| 25080088-A | F101  | Floor Supported Gable | 1   | 1   | Job Reference (optional)                     |

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Aug 15 08:09:34 ID:?\_THi1qR3t\_61llouVX7nNzTAT6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:23.3

| Plate Offsets (X, | Y): | [20:Edge,0-1-8] |
|-------------------|-----|-----------------|
|-------------------|-----|-----------------|

| Loading | (psf) | Spacing         | 1-7-3           | CSI       |      | DEFL      | in   | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.06 | Vert(LL)  | n/a  | -     | n/a    | 999 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC        | 0.01 | Vert(TL)  | n/a  | -     | n/a    | 999 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB        | 0.02 | Horiz(TL) | 0.00 | 11    | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2018/TPI2014 | Matrix-MR |      |           |      |       |        |     | Weight: 47 lb | FT = 20%F, 11%E |

11-3-8 11-3-8

### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

### BRACING

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

11=11-3-8, 12=11-3-8, 13=11-3-8, 14=11-3-8, 15=11-3-8, 16=11-3-8, 17=11-3-8, 18=11-3-8, 19=11-3-8,

20=11-3-8

Max Grav 11=21 (LC 1), 12=99 (LC 1),

13=121 (LC 1), 14=116 (LC 1), 15=117 (LC 1), 16=117 (LC 1), 17=117 (LC 1), 18=120 (LC 1),

19=105 (LC 1), 20=32 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-20=-30/0, 10-11=-18/0, 1-2=-3/0, 2-3=-3/0,

3-4=-3/0, 4-5=-3/0, 5-6=-3/0, 6-7=-3/0,

7-8=-3/0, 8-9=-3/0, 9-10=-3/0

19-20=0/3, 18-19=0/3, 17-18=0/3, 16-17=0/3, **BOT CHORD** 

15-16=0/3, 14-15=0/3, 13-14=0/3, 12-13=0/3,

11-12=0/3

WEBS 9-12=-90/0. 8-13=-110/0. 7-14=-106/0. 6-15=-107/0, 5-16=-107/0, 4-17=-106/0,

3-18=-109/0. 2-19=-95/0

### NOTES

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SP No.2 .

- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



August 18,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

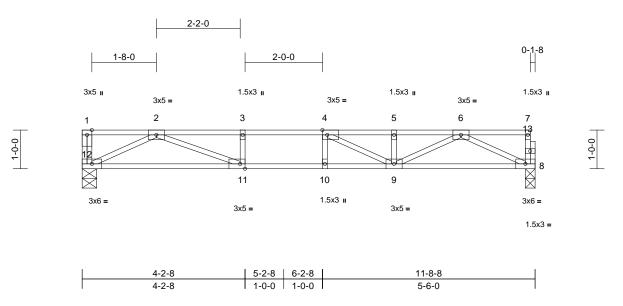
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSB Building Component Safety Information, available from the Structural Building Component Safety Information and Safety Information, available from the Structural Building Component Safety Information and Safety In and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



| Job        | Truss | Truss Type | Qty | Ply | 32 Magnolia Acres-Crawl-Grayson EC 3CG SL RH |
|------------|-------|------------|-----|-----|--|
| 25080088-A | F102  | Floor      | 12  | 1   | Job Reference (optional)                     |

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Aug 15 08:09:35  $ID:?\_THi1qR3t\_61IlouVX7nNzTAT6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?fdraces and the state of the property of the proper$ 

Page: 1



Scale = 1:29.8

| Plate C | Offsets (X | , Y): | [4:0-1-8,Ec | dge], [11:0-1 | -8,Edge] |
|---------|------------|-------|-------------|---------------|----------|
|---------|------------|-------|-------------|---------------|----------|

| Loading | (psf) | Spacing         | 1-7-3           | CSI        |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC         | 0.48 | Vert(LL) | -0.12 | 9-10  | >999   | 480 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC         | 0.73 | Vert(CT) | -0.16 | 9-10  | >872   | 360 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB         | 0.36 | Horz(CT) | 0.02  | 8     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2018/TPI2014 | Matrix-MSH |      |          |       |       |        |     | Weight: 56 lb | FT = 20%F, 11%E |

### LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

### BRACING

TOP CHORD

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

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

REACTIONS 8=0-3-0, 12=0-4-8 (size)

Max Grav 8=499 (LC 1), 12=504 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-12=-59/0, 7-8=-59/0, 1-2=0/0, 2-3=-1592/0,

3-4=-1592/0, 4-5=-1437/0, 5-6=-1437/0,

6-7=-4/0

**BOT CHORD** 11-12=0/890, 10-11=0/1592, 9-10=0/1592,

8-9=0/883

**WEBS** 2-12=-991/0, 2-11=0/763, 6-8=-978/0,

6-9=0/621, 5-9=-183/4, 4-9=-381/19,

3-11=-218/0, 4-10=-77/31

### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP No.2 .
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



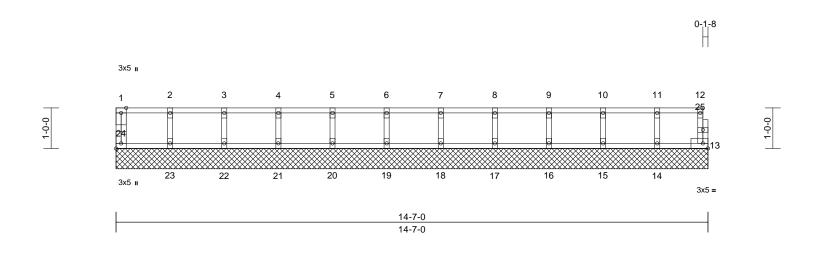
August 18,2025



| Job        | Truss | Truss Type            | Qty | Ply | 32 Magnolia Acres-Crawl-Grayson EC 3CG SL RH |
|------------|-------|-----------------------|-----|-----|--|
| 25080088-A | F103  | Floor Supported Gable | 2   | 1   | Job Reference (optional)                     |

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Aug 15 08:09:35 ID:ieYeEel2jk55hgjS\_XvU\_vzTATD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.4

Plate Offsets (X, Y): [24:Edge,0-1-8]

| Loading | (psf) | Spacing         | 1-7-3           | CSI       |      | DEFL      | in   | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.06 | Vert(LL)  | n/a  | -     | n/a    | 999 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC        | 0.01 | Vert(TL)  | n/a  | -     | n/a    | 999 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB        | 0.02 | Horiz(TL) | 0.00 | 13    | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2018/TPI2014 | Matrix-MR |      |           |      |       |        |     | Weight: 59 lb | FT = 20%F, 11%E |

### LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

### BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 13=14-7-0, 14=14-7-0, 15=14-7-0, 16=14-7-0, 17=14-7-0, 18=14-7-0,

19=14-7-0, 20=14-7-0, 21=14-7-0, 22=14-7-0, 23=14-7-0, 24=14-7-0

Max Grav 13=41 (LC 1), 14=110 (LC 1), 15=119 (LC 1), 16=117 (LC 1),

17=117 (LC 1), 18=117 (LC 1), 19=117 (LC 1), 20=117 (LC 1), 21=117 (LC 1), 22=118 (LC 1), 23=115 (LC 1), 24=49 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-24=-45/0, 12-13=-37/0, 1-2=-9/0, 2-3=-9/0,

3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0, 7-8=-9/0, 8-9=-9/0, 9-10=-9/0, 10-11=-9/0,

11-12=-9/0

**BOT CHORD** 23-24=0/9, 22-23=0/9, 21-22=0/9, 20-21=0/9,

19-20=0/9, 18-19=0/9, 17-18=0/9, 16-17=0/9,

15-16=0/9, 14-15=0/9, 13-14=0/9

11-14=-100/0, 10-15=-108/0, 9-16=-106/0, 8-17=-107/0. 7-18=-107/0. 6-19=-107/0. 5-20=-107/0, 4-21=-106/0, 3-22=-107/0,

2-23=-105/0

### NOTES

WEBS

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

- Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SP No.2.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



August 18,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

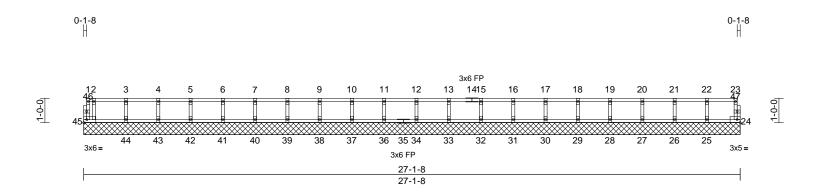
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.sbcacomponents.com)



| Job        | Truss | Truss Type            | Qty | Ply | 32 Magnolia Acres-Crawl-Grayson EC 3CG SL RH |
|------------|-------|-----------------------|-----|-----|--|
| 25080088-A | F104  | Floor Supported Gable | 1   | 1   | I75669042<br>Job Reference (optional)        |

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Aug 15 08:09:35  $ID: Aq60S\_lgT1DyJqleXEQjX6zTATC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$ 

Page: 1



### Scale = 1:47.6

| Loading | (psf) | Spacing         | 1-7-3           | CSI       |      | DEFL      | in   | (loc) | l/defl | L/d | PLATES         | GRIP            |
|---------|-------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|----------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.07 | Vert(LL)  | n/a  | -     | n/a    | 999 | MT20           | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC        | 0.02 | Vert(TL)  | n/a  | -     | n/a    | 999 |                |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB        | 0.03 | Horiz(TL) | 0.00 | 24    | n/a    | n/a |                |                 |
| BCDL    | 5.0   | Code            | IRC2018/TPI2014 | Matrix-MR |      |           |      |       |        |     | Weight: 107 lb | FT = 20%F, 11%E |

LUMBER TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS BRACING

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

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 24=27-1-8, 25=27-1-8, 26=27-1-8, 27=27-1-8, 28=27-1-8, 29=27-1-8, 30=27-1-8, 31=27-1-8, 32=27-1-8, 33=27-1-8, 34=27-1-8, 36=27-1-8, 37=27-1-8, 38=27-1-8, 39=27-1-8, 40=27-1-8, 41=27-1-8, 42=27-1-8, 43=27-1-8, 44=27-1-8, 45=27-1-8

Max Grav 24=51 (LC 1), 25=112 (LC 1), 26=119 (LC 1), 27=117 (LC 1), 28=117 (LC 1), 29=117 (LC 1), 30=117 (LC 1), 31=117 (LC 1), 32=117 (LC 1), 33=117 (LC 1), 34=117 (LC 1), 36=117 (LC 1), 37=117 (LC 1), 38=117 (LC 1),

39=117 (LC 1), 40=117 (LC 1), 41=117 (LC 1), 42=118 (LC 1), 43=113 (LC 1), 44=130 (LC 1), 45=68 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-45=0/9, 23-24=-45/0, 1-2=0/1, 2-3=-14/0, 3-4=-14/0, 4-5=-14/0, 5-6=-14/0, 6-7=-14/0, 7-8=-14/0, 8-9=-14/0, 9-10=-14/0, 10-11=-14/0, 11-12=-14/0, 12-13=-14/0, 13-15=-14/0, 15-16=-14/0, 16-17=-14/0, 17-18=-14/0, 18-19=-14/0, 19-20=-14/0, 20-21=-14/0, 21-22=-14/0, 22-23=-14/0

BOT CHORD 44-45=0/14, 43-44=0/14, 42-43=0/14,

41-42=0/14, 40-41=0/14, 39-40=0/14, 38-39=0/14, 37-38=0/14, 36-37=0/14, 34-36=0/14, 33-34=0/14, 32-33=0/14, 31-32=0/14, 30-31=0/14, 29-30=0/14, 28-29=0/14, 27-28=0/14, 26-27=0/14,

25-26=0/14, 24-25=0/14

22-25=-104/0, 21-26=-108/0, 20-27=-106/0, 19-28=-107/0, 18-29=-107/0, 17-30=-107/0, 16-31=-107/0, 15-32=-107/0, 13-33=-107/0, 12-34=-107/0, 11-36=-107/0, 10-37=-107/0, 9-38=-107/0, 8-39=-107/0, 7-40=-107/0, 6-41=-106/0, 5-42=-107/0, 4-43=-104/0,

3-44=-115/0, 2-45=-75/0

### NOTES

**WEBS** 

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SP No.2 .
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



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

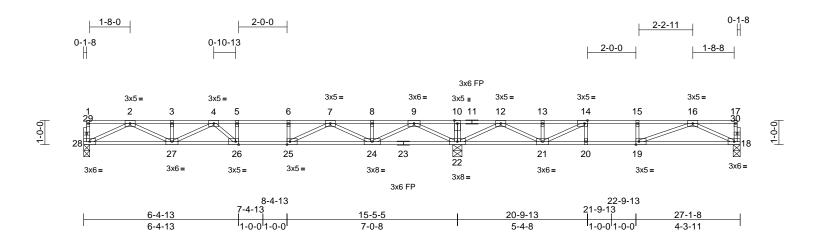
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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.sbcacomponents.com)



| Job        | Truss | Truss Type | Qty | Ply | 32 Magnolia Acres-Crawl-Grayson EC 3CG SL RH |
|------------|-------|------------|-----|-----|--|
| 25080088-A | F105  | Floor      | 10  | 1   | I75669043<br>Job Reference (optional)        |

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Aug 15 08:09:35 ID:Aq60S\_lgT1DyJqleXEQjX6zTATC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



### Scale = 1:47.6

Plate Offsets (X, Y): [14:0-1-8,Edge], [19:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge]

| Loading | (psf) | Spacing         | 1-7-3           | csı        |      | DEFL     | in    | (loc) | I/defI | L/d | PLATES         | GRIP            |
|---------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC         | 0.69 | Vert(LL) | -0.18 | 26    | >999   | 480 | MT20           | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC         | 0.83 | Vert(CT) | -0.24 | 26-27 | >765   | 360 |                |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB         | 0.58 | Horz(CT) | 0.04  | 18    | n/a    | n/a |                |                 |
| BCDL    | 5.0   | Code            | IRC2018/TPI2014 | Matrix-MSH |      |          |       |       |        |     | Weight: 129 lb | FT = 20%F, 11%E |

### LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) **OTHERS** 

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

18=0-3-8, 22=0-4-8, 28=0-3-0 REACTIONS (size)

18=433 (LC 4), 22=1419 (LC 1), Max Grav

28=592 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-28=-57/0, 17-18=-51/0, 1-2=-4/0,

2-3=-1802/0, 3-4=-1802/0, 4-5=-2263/0, 5-6=-2263/0, 6-7=-2263/0, 7-8=-1078/134, 8-9=-1078/134, 9-10=0/1779, 10-12=0/1779,

12-13=-788/552, 13-14=-788/552, 14-15=-1221/134, 15-16=-1221/134,

16-17=-4/0

**BOT CHORD** 27-28=0/1074, 26-27=0/2188, 25-26=0/2263,

24-25=0/1779, 22-24=-490/58, 21-22=-885/113, 20-21=-134/1221, 19-20=-134/1221, 18-19=0/768

5-26=-148/65, 6-25=-254/0, 10-22=-165/0, WEBS

14-20=0/121, 15-19=-155/47, 2-28=-1191/0, 2-27=0/816, 3-27=-136/0, 4-27=-433/0, 4-26=-190/259, 9-22=-1536/0, 9-24=0/1213, 8-24=-151/0, 7-24=-851/0, 7-25=0/768, 12-22=-1231/0, 12-21=0/881, 13-21=-121/59, 16-18=-847/0, 14-21=-830/0, 16-19=-172/485

### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2.

- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 28.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



August 18,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

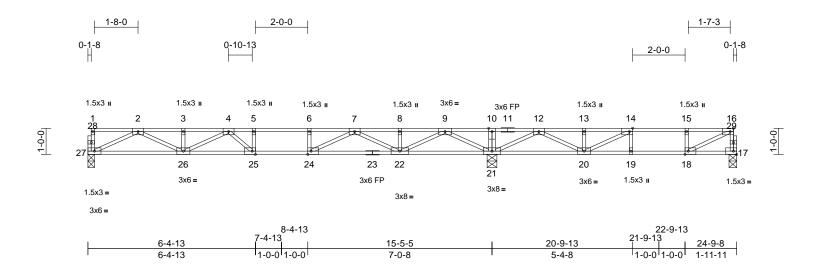
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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.sbcacomponents.com)



| Job        | Truss | Truss Type | Qty | Ply | 32 Magnolia Acres-Crawl-Grayson EC 3CG SL RH |
|------------|-------|------------|-----|-----|--|
| 25080088-A | F106  | Floor      | 3   | 1   | Job Reference (optional)                     |

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Aug 15 08:09:36 ID:Aq60S\_lgT1DyJqleXEQjX6zTATC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:44

Plate Offsets (X, Y): [14:0-1-8,Edge], [16:0-1-8,Edge], [18:0-1-8,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge]

| Loading | (psf) | Spacing         | 1-7-3           | CSI        |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP            |
|---------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC         | 0.67 | Vert(LL) | -0.18 | 25    | >999   | 480 | MT20           | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC         | 0.83 | Vert(CT) | -0.24 | 25-26 | >766   | 360 |                |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB         | 0.58 | Horz(CT) | 0.03  | 21    | n/a    | n/a |                |                 |
| BCDL    | 5.0   | Code            | IRC2018/TPI2014 | Matrix-MSH |      |          |       |       |        |     | Weight: 119 lb | FT = 20%F, 11%E |

### LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) **OTHERS** 

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

17=0-3-8, 21=0-4-8, 27=0-3-0 **REACTIONS** (size)

Max Uplift 17=-18 (LC 3)

17=306 (LC 4), 21=1358 (LC 1), Max Grav

27=592 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-27=-57/0, 16-17=-317/48, 1-2=-4/0,

2-3=-1799/0, 3-4=-1799/0, 4-5=-2257/0, 5-6=-2257/0, 6-7=-2257/0, 7-8=-1068/184 8-9=-1068/184, 9-10=0/1805, 10-12=0/1805,

12-13=-432/566, 13-14=-432/566, 14-15=-578/171, 15-16=-578/171

BOT CHORD 26-27=0/1073, 25-26=0/2184, 24-25=0/2257,

22-24=0/1771, 21-22=-548/47, 20-21=-901/0, 19-20=-171/578, 18-19=-171/578,

17-18=-3/23

5-25=-143/71, 6-24=-258/0, 10-21=-166/0,

14-19=-36/86, 15-18=-219/35, 2-27=-1190/0, 2-26=0/814, 3-26=-136/0, 4-26=-431/0, 4-25=-201/250, 9-21=-1540/0, 9-22=0/1217, 8-22=-151/0, 7-22=-854/0, 7-24=0/779, 12-21=-1089/0, 12-20=0/765, 13-20=-163/21,

14-20=-596/0, 16-18=-187/623

### NOTES

WFBS

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2.

- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 27.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



August 18,2025

Page: 1

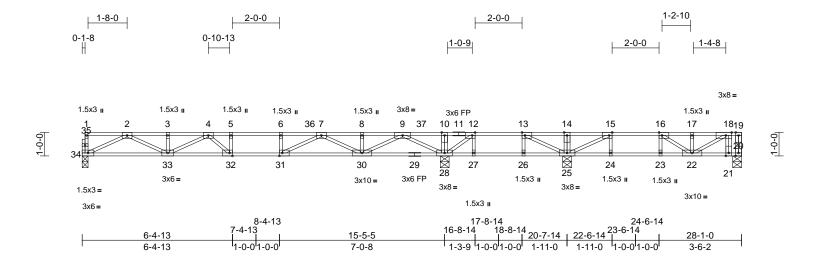
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/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.sbcacomponents.com)



| Job        | Truss | Truss Type | Qty | Ply | 32 Magnolia Acres-Crawl-Grayson EC 3CG SL RH |
|------------|-------|------------|-----|-----|--|
| 25080088-A | F107  | Floor      | 11  | 1   | I75669045<br>Job Reference (optional)        |

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Aug 15 08:09:36 ID:3bMXHLpBXGkOnScPm4VfhyzTAT8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:49.1

Plate Offsets (X, Y): [12:0-1-8,Edge], [13:0-1-8,Edge], [15:0-1-8,Edge], [16:0-1-8,Edge], [18:0-3-0,Edge], [31:0-1-8,Edge], [32:0-1-8,Edge]

| Loading | (psf) | Spacing         | 1-7-3           | CSI        |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP            |
|---------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC         | 0.97 | Vert(LL) | -0.18 | 31-32 | >999   | 480 | MT20           | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC         | 0.92 | Vert(CT) | -0.27 | 31-32 | >671   | 360 |                |                 |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB         | 0.66 | Horz(CT) | 0.04  | 20    | n/a    | n/a |                |                 |
| BCDL    | 5.0   | Code            | IRC2018/TPI2014 | Matrix-MSH |      |          |       |       |        |     | Weight: 137 lb | FT = 20%F, 11%E |

TOP CHORD 2x4 SP No.1(flat) \*Except\* 11-1:2x4 SP No.2

(flat)

2x4 SP No.2(flat) \*Except\* 29-20:2x4 SP **BOT CHORD** 

No.1(flat)

2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) **OTHERS** 

WEBS

**BRACING** TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing

REACTIONS (size) 20=0-4-8, 25=0-4-8, 28=0-4-8,

34=0-3-0

Max Grav 20=642 (LC 4), 25=924 (LC 4),

28=1273 (LC 16), 34=641 (LC 16) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-34=-58/0, 19-20=-300/0, 1-2=-4/0,

2-3=-1994/0, 3-4=-1994/0, 4-5=-2668/0, 5-6=-2668/0, 6-7=-2668/0, 7-8=-1619/0,

8-9=-1619/0, 9-10=0/1448, 10-12=0/1448, 12-13=0/1010, 13-14=0/755, 14-15=0/755,

15-16=-1069/127, 16-17=-1180/0, 17-18=-1180/0, 18-19=0/0

**BOT CHORD** 33-34=0/1170, 32-33=0/2484, 31-32=0/2668,

30-31=0/2340, 28-30=0/404, 27-28=-1010/0, 26-27=-1010/0, 25-26=-1010/0,

24-25=-127/1069, 23-24=-127/1069, 22-23=-127/1069, 21-22=0/0, 20-21=0/0

5-32=-251/0, 6-31=-179/0, 10-28=-52/0, 12-27=0/157, 13-26=-98/0, 14-25=-204/0, 15-24=0/207, 16-23=-264/0, 2-34=-1298/0, 2-33=0/923, 3-33=-142/0, 4-33=-549/0, 4-32=0/470, 9-28=-1925/0, 9-30=0/1379,

8-30=-221/0, 7-30=-826/0, 7-31=0/524, 12-28=-763/0, 13-25=-195/370,

15-25=-1735/0, 18-21=-456/0, 17-22=-504/0,

18-22=0/1353, 16-22=0/365

### **NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- Bearings are assumed to be: Joint 34 SP No.2 , Joint 28 SP No.1 , Joint 25 SP No.1 , Joint 20 SP No.1 .
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
- 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) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 20-34=-8, 1-36=-80, 36-37=-127, 14-37=-80, 14-19=-180 (F=-100)



August 18,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

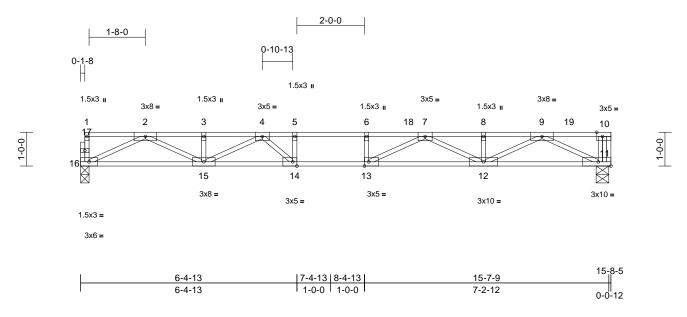
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.sbcacomponents.com)



| Job        | Truss | Truss Type | Qty | Ply | 32 Magnolia Acres-Crawl-Grayson EC 3CG SL RH |
|------------|-------|------------|-----|-----|--|
| 25080088-A | F108  | Floor      | 1   | 1   | Job Reference (optional)                     |

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Aug 15 08:09:36 ID: XovvVhpplasFPbAcKn0uEAzTAT7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:34.1

Plate Offsets (X, Y): [10:0-2-0,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge]

| Loading | (psf) | Spacing         | 2-0-0           | csı        |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.Ó  | Plate Grip DOL  | 1.00            | TC         | 0.64 | Vert(LL) | -0.24 | 12-13 | >781   | 480 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC         | 1.00 | Vert(CT) | -0.38 | 12-13 | >481   | 360 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB         | 0.67 | Horz(CT) | 0.06  | 11    | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2018/TPI2014 | Matrix-MSH |      |          |       |       |        |     | Weight: 77 lb | FT = 20%F, 11%E |

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.1(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

### BRACING

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 11=0-4-8, 16=0-3-0 (size)

Max Grav 11=993 (LC 1), 16=882 (LC 1)

**FORCES** Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-16=-75/0, 10-11=-82/0, 1-2=-5/0, 2-3=-2813/0, 3-4=-2813/0, 4-5=-4005/0,

5-6=-4005/0, 6-7=-4005/0, 7-8=-3147/0,

8-9=-3147/0, 9-10=0/0

**BOT CHORD** 15-16=0/1620, 14-15=0/3584, 13-14=0/4005,

12-13=0/3841, 11-12=0/1897

WEBS 5-14=-457/0, 6-13=-183/20, 2-16=-1797/0, 2-15=0/1337, 3-15=-194/0, 4-15=-865/0,

4-14=0/846, 7-13=-170/507, 7-12=-778/0, 8-12=-230/0, 9-12=0/1400, 9-11=-2099/0

### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP No.1.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 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) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

### LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 11-16=-10, 1-18=-100, 18-19=-140, 10-19=-100



August 18,2025

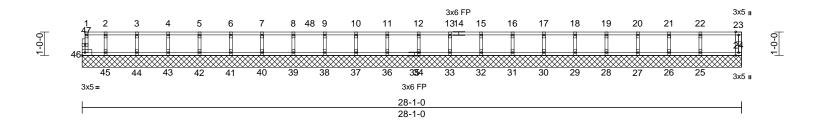


| Job        | Truss | Truss Type            | Qty | Ply | 32 Magnolia Acres-Crawl-Grayson EC 3CG SL RH |
|------------|-------|-----------------------|-----|-----|--|
| 25080088-A | F109  | Floor Supported Gable | 1   | 1   | Job Reference (optional)                     |

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Aug 15 08:09:36 ID:XovvVhpplasFPbAcKn0uEAzTAT7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:49.1

| Loading | (psf) | Spacing         | 1-7-3           | csı       |      | DEFL      | in   | (loc) | I/defl | L/d | PLATES         | GRIP            |
|---------|-------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|----------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.10 | Vert(LL)  | n/a  | -     | n/a    | 999 | MT20           | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC        | 0.03 | Vert(TL)  | n/a  | -     | n/a    | 999 |                |                 |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB        | 0.03 | Horiz(TL) | 0.00 | 24    | n/a    | n/a |                |                 |
| BCDL    | 5.0   | Code            | IRC2018/TPI2014 | Matrix-MR |      |           |      |       |        |     | Weight: 110 lb | FT = 20%F, 11%E |

LUMBER TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS BRACING TOP CHORD

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

**BOT CHORD** 

**REACTIONS** (size) 24=28-1-0, 25=28-1-0, 26=28-1-0, 27=28-1-0, 28=28-1-0, 29=28-1-0, 30=28-1-0, 31=28-1-0, 32=28-1-0, 33=28-1-0, 34=28-1-0, 36=28-1-0, 37=28-1-0, 38=28-1-0, 39=28-1-0, 40=28-1-0, 41=28-1-0, 42=28-1-0, 43=28-1-0, 44=28-1-0, 45=28-1-0, 46=28-1-0

Max Grav 24=66 (LC 1), 25=141 (LC 1), 26=110 (LC 1), 27=119 (LC 1), 28=117 (LC 1), 29=117 (LC 1), 30=117 (LC 1), 31=117 (LC 1), 32=117 (LC 1), 33=117 (LC 1), 34=118 (LC 1), 36=118 (LC 1), 37=118 (LC 1), 38=118 (LC 1), 39=117 (LC 1), 40=117 (LC 1),

41=117 (LC 1), 42=118 (LC 1), 43=116 (LC 1), 44=123 (LC 1), 45=90 (LC 1), 46=36 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

TOP CHORD

Tension 1-46=-29/0, 23-24=-63/0, 1-2=-12/0, 2-3=-12/0, 3-4=-12/0, 4-5=-12/0, 5-6=-12/0, 6-7=-12/0, 7-8=-12/0, 8-9=-12/0, 9-10=-12/0, 10-11=-12/0. 11-12=-12/0. 12-13=-12/0. 13-15=-12/0, 15-16=-12/0, 16-17=-12/0, 17-18=-12/0. 18-19=-12/0. 19-20=-12/0. 20-21=-12/0, 21-22=-12/0, 22-23=-12/0

BOT CHORD 45-46=0/12, 44-45=0/12, 43-44=0/12, 42-43=0/12, 41-42=0/12, 40-41=0/12,

39-40=0/12, 38-39=0/12, 37-38=0/12, 36-37=0/12, 34-36=0/12, 33-34=0/12, 32-33=0/12, 31-32=0/12, 30-31=0/12, 29-30=0/12, 28-29=0/12, 27-28=0/12, 26-27=0/12, 25-26=0/12, 24-25=0/12 21-26=-101/0, 20-27=-108/0, 19-28=-106/0, 18-29=-107/0, 17-30=-107/0, 16-31=-107/0, 15-32=-107/0, 13-33=-107/0, 12-34=-107/0, 11-36=-107/0, 10-37=-107/0, 9-38=-107/0, 8-39=-107/0, 7-40=-107/0, 6-41=-107/0, 5-42=-107/0, 4-43=-106/0, 3-44=-111/0,

### NOTES

**WEBS** 

All plates are 1.5x3 MT20 unless otherwise indicated.

2-45=-87/0, 22-25=-125/0

- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SP No.2 .
- 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) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 9) CAUTION, Do not erect truss backwards.

### LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 24-46=-8 1-48=-80 12-48=-80 12-23=-80



August 18,2025

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

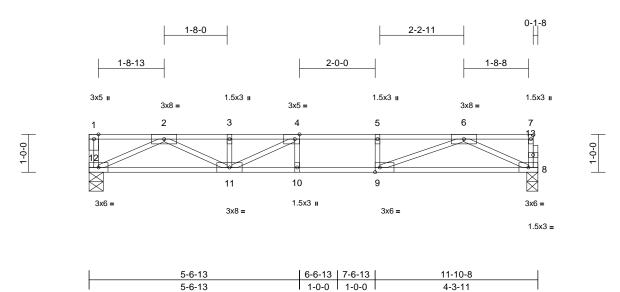
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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.sbcacomponents.com)



| Job        | Truss | Truss Type | Qty | Ply | 32 Magnolia Acres-Crawl-Grayson EC 3CG SL RH |
|------------|-------|------------|-----|-----|--|
| 25080088-A | F110  | Floor      | 2   | 1   | I75669048<br>Job Reference (optional)        |

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Aug 15 08:09:36 ID: XovvVhpplasFPbAcKn0uEAzTAT7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:30.5

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

| Loading | (psf) | Spacing         | 2-0-0           | CSI        |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC         | 0.93 | Vert(LL) | -0.22 | 10-11 | >622   | 480 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC         | 0.79 | Vert(CT) | -0.29 | 10-11 | >481   | 360 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB         | 0.79 | Horz(CT) | 0.03  | 8     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2018/TPI2014 | Matrix-MSH |      |          |       |       |        |     | Weight: 57 lb | FT = 20%F, 11%E |

LUMBER

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-7 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 8=0-3-8, 12=0-4-8

Max Grav 8=1093 (LC 1), 12=1105 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** 

Tension

TOP CHORD 1-12=-141/0, 7-8=-128/0, 1-2=0/0, 2-3=-3189/0, 3-4=-3189/0, 4-5=-3541/0,

5-6=-3541/0, 6-7=-9/0

**BOT CHORD** 11-12=0/2019, 10-11=0/3541, 9-10=0/3541,

8-9=0/2011

**WEBS** 4-10=-196/71, 5-9=-484/0, 4-11=-848/36, 3-11=-392/0, 2-11=0/1311, 2-12=-2231/0,

6-8=-2219/0, 6-9=0/1651

### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP 2400F 2.0E
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 8-12=-10, 1-7=-180 (F=-80)

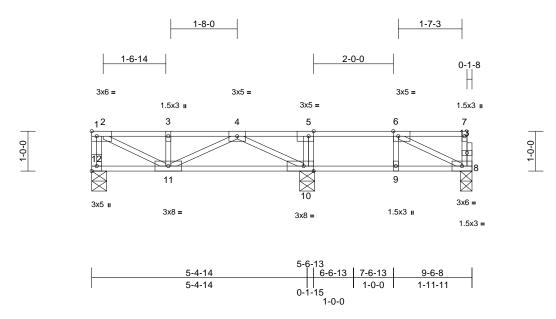




| Job        | Truss | Truss Type | Qty | Ply | 32 Magnolia Acres-Crawl-Grayson EC 3CG SL RH |
|------------|-------|------------|-----|-----|--|
| 25080088-A | F111  | Floor      | 1   | 1   | Job Reference (optional)                     |

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Mon Aug 18 08:36:29 ID:XovvVhpplasFPbAcKn0uEAzTAT7-vyKerHWGRTyjiQtLhCjGoPye9GMZ76R8e69L6wymgyn

Page: 1



Scale = 1:28.9

Plate Offsets (X, Y): [5:0-1-8,Edge], [6:0-1-8,Edge], [10:0-3-0,Edge], [12:Edge,0-1-8]

| Loading | (psf) | Spacing         | 2-0-0           | CSI        |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC         | 0.70 | Vert(LL) | -0.03 | 9     | >999   | 480 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC         | 0.47 | Vert(CT) | -0.04 | 9     | >999   | 360 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB         | 0.50 | Horz(CT) | 0.01  | 8     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2018/TPI2014 | Matrix-MSH |      |          |       |       |        |     | Weight: 48 lb | FT = 20%F, 11%E |

Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 8-12=-10, 1-7=-180 (F=-80)

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

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

REACTIONS (lb/size)

8=483/0-3-8, 10=687/0-4-8,

12=585/0-4-8

Max Grav 8=506 (LC 4), 10=730 (LC 9),

12=585 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-571/0, 7-8=-134/0, 1-2=0/0,

2-3=-923/0, 3-4=-923/0, 4-5=-717/0,

5-6=-738/0, 6-7=-10/0

**BOT CHORD** 11-12=0/0, 10-11=0/1026, 9-10=0/738,

8-9=0/738

WEBS 5-10=-433/0, 6-9=-22/0, 4-10=-692/153,

4-11=-179/46, 3-11=-431/0, 2-11=0/1046,

6-8=-812/0

### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



August 18,2025

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

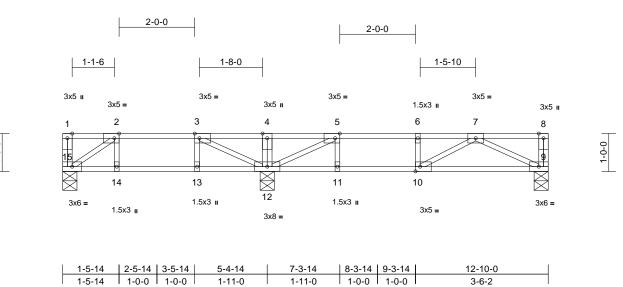
building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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.sbcacomponents.com)



| Job        | Truss | Truss Type | Qty | Ply | 32 Magnolia Acres-Crawl-Grayson EC 3CG SL RH |
|------------|-------|------------|-----|-----|--|
| 25080088-A | F112  | Floor      | 1   | 1   | I75669050<br>Job Reference (optional)        |

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Aug 15 08:09:36 ID: XovvVhpplasFPbAcKn0uEAzTAT7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

3-6-2



Scale = 1:30.5

1-5-14

| Loading | (psf) | Spacing         | 2-0-0           | CSI        |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC         | 0.98 | Vert(LL) | -0.13 | 9-10  | >673   | 480 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC         | 0.96 | Vert(CT) | -0.18 | 9-10  | >490   | 360 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB         | 0.36 | Horz(CT) | 0.02  | 9     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2018/TPI2014 | Matrix-MSH |      |          |       |       |        |     | Weight: 62 lb | FT = 20%F, 11%E |

1-11-0

### LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

**BRACING** 

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

bracing.

REACTIONS (size) 9=0-4-8, 12=0-4-8, 15=0-4-8

9=709 (LC 7), 12=1208 (LC 8), Max Grav

15=514 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-15=-70/33, 8-9=-126/0, 1-2=0/0,

2-3=-734/0, 3-4=-140/194, 4-5=-140/194, 5-6=-1410/0, 6-7=-1410/0, 7-8=0/0

**BOT CHORD** 14-15=0/734, 13-14=0/734, 12-13=0/734, 11-12=0/1410, 10-11=0/1410, 9-10=0/1133

2-14=0/85, 3-13=-35/8, 4-12=-302/0,

WEBS 5-11=0/138, 6-10=-190/0, 2-15=-884/0

3-12=-854/0, 5-12=-1476/0, 7-9=-1261/0,

7-10=0/350

### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

1-11-0

Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 9-15=-10, 1-8=-180 (F=-80)



August 18,2025

Page: 1

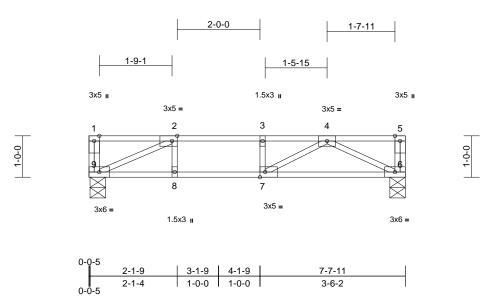
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/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.sbcacomponents.com)



| Job        | Truss | Truss Type | Qty | Ply | 32 Magnolia Acres-Crawl-Grayson EC 3CG SL RH |
|------------|-------|------------|-----|-----|--|
| 25080088-A | F113  | Floor      | 1   | 1   | Job Reference (optional)                     |

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Aug 15 08:09:36 ID:?\_THi1qR3t\_61llouVX7nNzTAT6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:27.8

| Loading | (psf) | Spacing         | 1-7-3           | CSI        |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC         | 0.90 | Vert(LL) | -0.12 | 6-7   | >734   | 480 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC         | 0.84 | Vert(CT) | -0.16 | 6-7   | >552   | 360 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB         | 0.32 | Horz(CT) | 0.01  | 6     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2018/TPI2014 | Matrix-MSH |      |          |       |       |        |     | Weight: 37 lb | FT = 20%F, 11%E |

### LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

**BRACING** 

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

bracing.

REACTIONS (size) 6=0-4-8, 9=0-4-8

Max Grav 6=621 (LC 1), 9=621 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-9=-117/28, 5-6=-109/0, 1-2=0/0,

2-3=-1217/0, 3-4=-1217/0, 4-5=0/0 8-9=0/1217, 7-8=0/1217, 6-7=0/980

**BOT CHORD** WEBS 2-8=0/119, 3-7=-188/0, 2-9=-1334/0,

4-6=-1094/0, 4-7=0/427

### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP No.2 .
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 6-9=-8, 1-5=-160 (F=-80)



Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

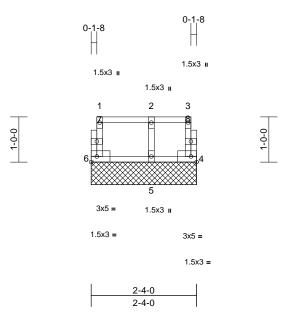
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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.sbcacomponents.com)



| Job        | Truss | Truss Type            | Qty | Ply | 32 Magnolia Acres-Crawl-Grayson EC 3CG SL RH |
|------------|-------|-----------------------|-----|-----|--|
| 25080088-A | F114  | Floor Supported Gable | 1   | 1   | Job Reference (optional)                     |

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Aug 15 08:09:36  $ID:?\_THi1qR3t\_61IlouVX7nNzTAT6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?fdraces and the state of the property of the proper$ 

Page: 1



Scale = 1:25.5

| Loading | (psf) | Spacing         | 1-7-3           | CSI       |      | DEFL      | in   | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC        | 0.04 | Vert(LL)  | n/a  | -     | n/a    | 999 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC        | 0.02 | Vert(TL)  | n/a  | -     | n/a    | 999 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB        | 0.02 | Horiz(TL) | 0.00 | 4     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | IRC2018/TPI2014 | Matrix-MR |      |           |      |       |        |     | Weight: 12 lb | FT = 20%F, 11%E |

### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

### BRACING

TOP CHORD Structural wood sheathing directly applied or

2-4-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4=2-4-0, 5=2-4-0, 6=2-4-0

4=33 (LC 1), 5=93 (LC 1), 6=48 Max Grav

(LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-6=-44/0, 3-4=-28/0, 1-2=-9/0, 2-3=-9/0

**BOT CHORD** 5-6=0/9, 4-5=0/9 WEBS 2-5=-86/0

### NOTES

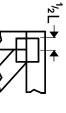
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SP  $\ensuremath{\text{No.2}}$  .
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

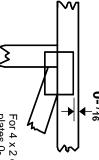


## Symbols

## PLATE LOCATION AND ORIENTATION



offsets are indicated and fully embed teeth Center plate on joint unless x, y Apply plates to both sides of truss Dimensions are in ft-in-sixteenths



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

connector plates. required direction of slots in This symbol indicates the

\* Plate location details available in MiTek software or upon request

### PLATE SIZE

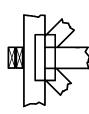
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. ndicated by symbol shown and/or

### **BEARING**



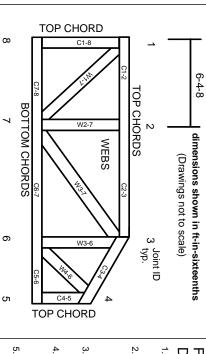
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### Industry Standards:

National Design Specification for Metal Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-22: ANSI/TPI1:

## Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

# Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

# Design General Notes

truss unless otherwise shown Trusses are designed for wind loads in the plane of the

established by others section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

© 2023 MiTek® All Rights Reserved

## MiTek



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

# General Safety Notes

## Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.