

RE: P20-04004 - JOB 09-2020-020 Site Information: Project Customer: **Project Name:** Lot/Block: Subdivision: Model: Address: State: City: General Truss Engineering Criteria & Design Loads (Individual Truss Design **Drawings Show Special Loading Conditions):** Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.3 Wind Code: N/A Wind Speed: 130 mph Design Method: User defined Roof Load: 40.0 psf Floor Load: 55.0 psf Mean Roof Height (feet): 12 Exposure Category: B No. Seal# **Truss Name Date** No. Seal# Truss Name Date E14282441 M01 E14282442 M02 E14282443 M03 E14282443 M03 E14282444 M04 E14282445 T01 E14282446 T01GE E14282447 T02 E14282447 T02 E14282407 F01 E14282408 F02 35 36 37 38 4/9/20 4/9/20 123456789111234 4/9/20 4/9/20 4/9/20 4/9/20 4/9/20 4/9/20 E14282409 F03 E14282410 F04 4/9/20 Δ /9/20 E14282411 E14282412 F05 **3**9 4 F06 **4**0 4/9/20 E14282412 F06 E14282413 F07 E14282414 F08 E14282415 F09 E14282416 F10 E14282416 F10 E14282417 F11 E14282418 F12 E14282419 F13 E14282420 F14 41 4/9/20 4/9/20 Ť02GE E14282449 T03 E14282450 T03GE E14282451 T04 E14282452 T04GE 43 4/9/20 4/9/20 4/9/20 44 45 4/9/20 4/9/20 46 4/9/20 4/9/20 E14282453 T05 47 4/9/20 4/9/20 4/9/20 E14282421 E14282422 F15 F16 4/9/20 16 17 18 19 20 21 22 23 4/9/20 E14282423 E14282424 F17 F18 4/9/20 Ē142 Ē142 F19 F20 32425 26 Ē 28 Ē 2429 30 25 26 27 28 29 30 31 32 34 4 82435 2436 Δ E14282438 F32 33 34 E14282440 G01 The truss drawing(s) referenced above have been prepared by

In use Company. In use Design Engineer's Name: Gilbert, Eric My license renewal date for the state of North Carolina is December 31, 2020 **IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified designs comply with ANSI/TPL1. These distances of the state of t 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.

ATTIC CONTRACTOR G THIN

April 9,2020

1 of 1

Gilbert, Eric

Trenco 818 Soundside Rd Edenton, NC 27932



|   |   |  | 11-11-8<br>11-11-8                        |                                       |  |  |   |
|---|---|--|---|---------------------------------------|--|--|---|
| Plate Offsets (X,Y)   | [1:Edge,0-1-8], [21:0-1-8,0-1-4], [22:0-1   | -8,0-1-4]  | -   |                                       |  |  |   |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2018/TPI2014 | <b>CSI.</b><br>TC 0.06<br>BC 0.01<br>WB 0.03<br>Matrix-R | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in (loc)<br>n/a -<br>n/a -<br>D.00 11 | l/defl L/d<br>n/a 999<br>n/a 999<br>n/a n/a      | PLATES<br>MT20<br>Weight: 57 lb                    | <b>GRIP</b><br>244/190<br>FT = 8%F, 4%E |
| LUMBER-<br>TOP CHORD 2x4 SF<br>BOT CHORD 2x4 SF<br>WEBS 2x4 SF<br>OTHERS 2x4 SF   | P No.1(flat)<br>P No.1(flat)<br>P No.3(flat)<br>P No.3(flat)                        |  | BRACING-<br>TOP CHORD<br>BOT CHORD        | Sheath<br>Rigid c                     | ed or 6-0-0 oc purlin<br>eiling directly applied | s, except end verticals<br>I or 10-0-0 oc bracing. | i.                                      |

# REACTIONS. All bearings 11-11-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

# NOTES-

- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is
- the responsibility of the fabricator to increase plate sizes to account for these factors.
- 2) All plates are 1.5x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 0 degree rotation about its center.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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

| Job                     | Truss                 | Truss Type |           | Qty       | Ply        | JOB 09-2020-020        |               |                   |                |
|-------------------------|-----------------------|------------|-----------|-----------|------------|------------------------|---------------|-------------------|----------------|
| P20 04004               | E02                   |            |           | 1         | 1          |                        |               |                   | E14282408      |
| F20-04004               | FUZ                   | GABLE      |           | 1         | '          | Job Reference (option  | al)           |                   |                |
| Longleaf Truss Company, | West End, NC - 27376, | 1          |           | 8         | 3.330 s Ma | r 23 2020 MiTek Indust | tries, Inc. T | hu Apr 9 13:42:45 | 2020 Page 1    |
|                         |                       |            | ID:kM0    | BjIH5nfL_ | _QdPs3XV   | V2ZzSTv?-gYdQzjFKa     | w5QBAobP      | 3cAydxAfo7vKgKts  | ?o7I_zSR3O     |
| 0-1 <mark>-1</mark> 8   |                       |            |           |           |            |                        |               |                   |                |
|                         |                       |            |           |           |            |                        |               |                   | Casta 4:04.0   |
|                         |                       |            |           |           |            |                        |               |                   | Scale = 1:24.3 |
|                         |                       |            |           |           |            |                        |               |                   |                |
|                         |                       |            |           |           |            |                        |               |                   |                |
|                         |                       |            |           |           |            |                        |               |                   |                |
| 3x4                     |                       |            |           |           |            |                        |               |                   |                |
| 2.5x6 =                 |                       |            |           |           |            |                        |               |                   | 3x4            |
| 1 2                     | 3 4                   | 5          | 6 7 8     |           | 9          | 10                     | 11            | 12                | 13             |
| I Primer                |                       | •          |           |           | -          | •                      | -             | •                 |                |
| 27                      |                       |            | H $H$ $H$ |           | H          | H                      | Н             | H                 | H L            |
|                         |                       |            |           |           |            |                        |               |                   |                |
|                         |                       |            |           |           | H          |                        | Н             | H                 |                |
|                         |                       |            |           | ******    |            |                        |               | ****              |                |
|                         |                       |            |           | ******    |            |                        |               |                   | ******         |
| 26 25                   | 24 23                 | 22         | 21 20 19  |           | 18         | 17                     | 16            | 15                | 14             |
| 3x6 =                   |                       |            |           |           |            |                        |               |                   | 3x4            |
|                         |                       |            |           |           |            |                        |               |                   |                |
|                         |                       |            |           |           |            |                        |               |                   |                |
|                         |                       |            |           |           |            |                        |               |                   |                |
|                         |                       |            |           |           |            |                        |               |                   |                |

|              | 1-4-0         | 1-4-0                | 1-4-0                       | 1-4-0  | 1-4-0               | 0-8-0 | 0-8-0                | 1-4-0      | 1     | 1-4-0      | 1-4-0 | 1-4-0         | 1-4-0         |
|--------------|---------------|----------------------|-----------------------------|--------|---------------------|-------|----------------------|------------|-------|------------|-------|---------------|---------------|
| Plate (      | Offsets (X,Y) | [1:Edge,0-1-8],      | [27:0-1-8,0-1-4             |        |                     |       |                      |            |       |            |       |               |               |
| LOAD         | ING (psf)     | SPACING              | <b>G-</b> 2-0               | 0      | CSI.                |       | DEFL.                | in         | (loc) | l/defl     | L/d   | PLATES        | GRIP          |
| TCDL         | 40.0<br>10.0  | Lumber E             | DOL 1.0<br>DOL 1.0          | 0      | BC 0.06             |       | Vert(LL)<br>Vert(CT) | n/a<br>n/a | -     | n/a<br>n/a | 999   | MT20          | 244/190       |
| BCLL<br>BCDL | 0.0<br>5.0    | Rep Stree<br>Code IR | ss Incr YE<br>C2018/TPI2014 | S<br>I | WB 0.03<br>Matrix-R |       | Horz(CT)             | 0.00       | 14    | n/a        | n/a   | Weight: 69 lb | FT = 8%F, 4%E |
|              |               |                      |                             |        |                     |       |                      |            |       |            |       |               |               |

7-4-0 8-0-0

# LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

1-4-0

2-8-0

BRACING-TOP CHORD BOT CHORD

9-4-0

10-8-0

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

12-0-0

13-4-0

14-8-0

### REACTIONS. All bearings 14-8-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 20, 15, 16, 17, 18, 19, 25, 24, 23, 22, 21

5-4-0

6-8-0

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

4-0-0

# NOTES-

- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 2) All plates are 1.5x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 0 degree rotation about its center.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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|   | 7-8-4   |  | 0-0-4 9-8-4                               | +   | 14-0-0  | 1478-0   | 10-0-0                                     |
|---|---|--|---|---|---|--|--|
|   | 7-8-4   | I  | 1-0-0 1-0-0                               |   | 4-10-4  | 0-1-8  | 2-0-0                                      |
| Plate Offsets (X,Y)   | [1:Edge,0-1-8], [6:0-3-0,Edge], [7:0-3-0,0  | <u>)-0-0], [18:0-1-8,Edge], [1</u>   | 19:0-1-8,Edge], [24                       | 4:0-1-8,0-1-4],                                   | [25:0-1-8,0-1-4]                              |  |  |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0   | SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCode IRC2018/TPI2014  | <b>CSI.</b><br>TC 0.47<br>BC 0.57<br>WB 0.47<br>Matrix-S   | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in (loc)<br>-0.11 19-20<br>-0.14 19-20<br>0.03 16 | l/defl L/d<br>>999 480<br>>999 360<br>n/a n/a | PLATES<br>MT20<br>Weight: 105                            | <b>GRIP</b><br>244/190<br>lb FT = 8%F, 4%E |
| LUMBER-   |   |  | BRACING-                                  |   |   |  |  |
| TOP CHORD2x4 SPBOT CHORD2x4 SPWEBS2x4 SP  | No.1(flat)<br>No.1(flat)<br>No.3(flat)  |  | TOP CHOR<br>BOT CHOR                      | D Sheath<br>D Rigid c                             | ed or 6-0-0 oc p<br>eiling directly ap        | urlins, except end vertica<br>plied or 6-0-0 oc bracing. | ls.  |
| REACTIONS. (size<br>Max G   | ) 23=Mechanical, 16=0-5-8<br>av 23=752(LC 3), 16=1577(LC 1)   |  |   |   |   |  |  |
| FORCES. (lb) - Max.<br>TOP CHORD 14-15<br>8-10=   | Comp./Max. Ten All forces 250 (lb) or<br>=-338/0, 2-4=-1313/0, 4-5=-2066/0, 5-6:<br>-1018/216, 10-12=0/694, 12-13=0/693   | less except when shown<br>=-2060/0, 6-7=-2060/0, 7   | -8=-2060/0,                               |   |   |  |  |
| BOT CHORD 21-23<br>16-17  | =0/786, 20-21=0/1831, 19-20=0/2256, 1<br>=-427/438, 15-16=-389/0  | 8-19=0/2060, 17-18=-20   | /1595,                                    |   |   |  |  |
| WEBS 6-19=<br>5-20=<br>13-15  | -73/331, 7-18=-689/0, 2-23=-1046/0, 2-2<br>-259/16, 5-19=-508/124, 10-16=-1179/0<br>=0/518, 13-16=-772/0  | 21=0/725, 4-21=-710/0, 4<br>, 10-17=0/811, 8-17=-80  | I-20=0/318,<br>9/0, 8-18=0/980,           |   |   |  |  |
| NOTES-<br>1) Unbalanced floor live<br>2) As requested, plates<br>the responsibility of t<br>3) All plates are 3x4 MT<br>4) Plates checked for a<br>5) Refer to girder(s) for<br>6) This truss is designe<br>referenced standard | e loads have been considered for this de<br>have not been designed to provide for p<br>he fabricator to increase plate sizes to a<br>'20 unless otherwise indicated.<br>plus or minus 0 degree rotation about it<br>truss to truss connections.<br>d in accordance with the 2018 Internatic<br>ANSI/TPI 1 | sign.<br>blacement tolerances or r<br>ccount for these factors.<br>s center.<br>nal Residential Code sec | rough handling and<br>ctions R502.11.1 a  | d erection cond                                   | itions. It is<br>and                          | THO  | ARO  |
| 7) Load case(s) 11, 12<br>of this truss.  | has/have been modified. Building design   | ner must review loads to   | verify that they are                      | e correct for the                                 | intended use                                  | CI DOLEES  | Signation                                  |
| <ol> <li>8) Recommend 2x6 strongbacks to be at</li> <li>9) CAUTION, Do not er</li> </ol>  | ongbacks, on edge, spaced at 10-0-0 or<br>tached to walls at their outer ends or res<br>ect truss backwards.  | c and fastened to each tr<br>strained by other means.  | uss with 3-10d (0.                        | 131" X 3") nails                                  | i.  | R SF   | AL   |
| 10) In the LOAD CASE  | (S) section, loads applied to the face of   | the truss are noted as fro   | ont (F) or back (B).                      |   |   | 036  | 322  |
| LOAD CASE(S) Stand<br>1) Dead + Floor Live (b<br>Uniform Loads (plf)<br>Vert: 15-23=  | lard Except:<br>alanced): Lumber Increase=1.00, Plate<br>-10, 1-12=-100, 12-14=-280(F=-180)   | Increase=1.00  |   |   |   | The SNG!   | NEEREAL                                    |
| Concentrated Loads<br>Vert: 14=-18  | (lb)<br>0   |  |   |   |   | A.   | GILBERN                                    |

# Continued on page 2

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April 9,2020



| Job                     | Truss                 | Truss Type | Qty      | Ply       | JOB 09-2020-020   |
|-------------------------|-----------------------|------------|----------|-----------|---|
|                         |                       |            |          |           | E14282409   |
| P20-04004               | F03                   | Floor      | 5        | 1         |   |
|                         |                       |            |          |           | Job Reference (optional)  |
| Longleaf Truss Company, | West End, NC - 27376, |            | 8        | .330 s Ma | r 23 2020 MiTek Industries, Inc. Thu Apr 9 13:42:46 2020 Page 2 |
|                         |                       | ID:kMCBjIH | 5nfL_QdP | s3XVV2Zz  | STv?-8kBpA3GyLDDHpKNoyn7PUqUE2CLN30n05fYhHQzSR3N                |

LOAD CASE(S)

- 11) User defined: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 15-23=-10(F), 1-12=-100(F), 12-14=-280(F) Concentrated Loads (lb)
  - Vert: 14=-180
- 12) User defined: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
  - Vert: 15-23=-10(F), 1-12=-100(F), 12-14=-280(F) Concentrated Loads (lb) Vert: 14=-180

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





| 1-5-12<br>1-5-12   | 2-5-12 3-5-12<br>1-0-0 1-0-0   | -  | <u>8-4-0</u><br>4-10-4  |   |  | 8-5-8 10<br>0-1-8 2                          | 0-5-8<br>2-0-0                          |
|--|--|--|---|---|--|--|---|
| Plate Offsets (X,Y)  | [9:Edge,0-1-8], [9:0-1-8,0-1-4], [12:0-1-8   | ,Edge], [13:0-1-8,Edge],   | [14:Edge,0-1-8], [15:0-1-   | 8,0-1-4]  |  |  |   |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0  | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr NO<br>Code IRC2018/TPI2014   | CSI.<br>TC 0.60<br>BC 0.42<br>WB 0.35<br>Matrix-S  | DEFL. in<br>Vert(LL) 0.10<br>Vert(CT) 0.11<br>Horz(CT) -0.01  | (loc) l/defl<br>11-12 >999<br>11-12 >908<br>10 n/a  | L/d<br>480<br>360<br>n/a                         | PLATES<br>MT20<br>Weight: 61 lb              | <b>GRIP</b><br>244/190<br>FT = 8%F, 4%E |
| LUMBER-<br>TOP CHORD 2x4 SP<br>BOT CHORD 2x4 SP<br>WEBS 2x4 SP   | No.1(flat)<br>No.1(flat)<br>No.3(flat)   |  | BRACING-<br>TOP CHORD<br>BOT CHORD  | Sheathed or 6-0<br>Rigid ceiling dir<br>10-0-0 oc bracir  | 0-0 oc purlins,<br>ectly applied o<br>ng: 13-14. | except end verticals<br>or 6-0-0 oc bracing, | s.<br>Except:                           |
| REACTIONS. (size<br>Max U<br>Max G   | e) 14=Mechanical, 10=0-5-8<br>plift 14=-90(LC 4)<br>rav 14=273(LC 3), 10=1869(LC 1)  |  |   |   |  |  |   |
| FORCES.         (lb) - Max.           TOP CHORD         1-14=           5-6=0           BOT CHORD         12-13           WEBS         3-12=           7-10=         7-10=   | Comp./Max. Ten All forces 250 (lb) or<br>-272/157, 8-9=-656/0, 1-2=-254/250, 2-<br>/1404, 6-7=0/1404<br>=-250/254, 11-12=-530/156, 10-11=-10<br>-310/0, 6-10=-260/0, 5-10=-877/0, 5-11<br>-1490/0, 7-9=0/722, 1-13=-342/348  | less except when shown<br>3=-254/250, 3-4=-254/250<br>35/0, 9-10=-288/0<br>=0/552, 4-11=-534/0, 4-12   | 0, 4-5=0/822,<br>2=0/536,   |   |  |  |   |
| NOTES-<br>1) Unbalanced floor live<br>2) As requested, plates<br>the responsibility of t<br>3) All plates are 3x4 MT<br>4) Plates checked for a<br>5) Refer to girder(s) for<br>6) Provide mechanical<br>7) This truss is designer<br>referenced standard<br>8) Load case(s) 1, 2, 3,<br>correct for the intend<br>9) Recommend 2x6 stro<br>Strongbacks to be at<br>10) CAUTION, Do not at<br>11) Hanger(s) or other<br>chord. The design/<br>12) In the LOAD CASE<br>LOAD CASE(S) Stand<br>1) Dead + Floor Live (b<br>Uniform Loads (plf)<br>Vert: 9-14=- | e loads have been considered for this de<br>have not been designed to provide for<br>the fabricator to increase plate sizes to a<br>720 unless otherwise indicated.<br>plus or minus 0 degree rotation about it<br>truss to truss connections.<br>connection (by others) of truss to bearin<br>d in accordance with the 2018 Internation<br>ANSI/TPI 1.<br>4, 5, 6, 7, 8, 9, 10, 11 has/have been m<br>led use of this truss.<br>ongbacks, on edge, spaced at 10-0-0 o<br>ttached to walls at their outer ends or re-<br>erect truss backwards.<br>connection device(s) shall be provided s<br>(selection of such connection device(s) i<br>(S) section, loads applied to the face of<br>fard Except:<br>alanced): Lumber Increase=1.00, Plate<br>10, 1-6=-100, 6-8=-280(F=-180) | asign.<br>blacement tolerances or r<br>account for these factors.<br>s center.<br>g plate capable of withsta<br>anal Residential Code sec<br>odified. Building designer<br>c and fastened to each tro<br>strained by other means.<br>sufficient to support conce<br>s the responsibility of other<br>the truss are noted as fro<br>Increase=1.00 | ough handling and erect<br>inding 90 lb uplift at joint<br>tions R502.11.1 and R8<br>r must review loads to ve<br>uss with 3-10d (0.131" X<br>entrated load(s) 180 lb do<br>ers.<br>nt (F) or back (B). | ion conditions. It<br>14.<br>02.10.2 and<br>arify that they are<br>3") nails.<br>own at 10-2-8 on | top  | SE<br>036                                    | ARO<br>AL<br>322<br>NEERRATION          |

# Continued on page 2

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

818 Soundside Road Edenton, NC 27932

April 9,2020

| jub         Trues         Trues Type         Oty         Piy         Del 00 00 00 00 00 00 00 00 00 00 00 00 00  |  |                                   |  |                 |           |                                   |                                |
|--|--|-----------------------------------|--|-----------------|-----------|-----------------------------------|--------------------------------|
| Point         Point <th< td=""><td>Job</td><td>Truss</td><td>Truss Type</td><td>Qty</td><td>Ply</td><td>JOB 09-2020-020</td><td></td></th<>  | Job  | Truss                             | Truss Type                             | Qty             | Ply       | JOB 09-2020-020                   |                                |
| Concentration         Case         Partial         Initial Company           Langleat Trust Company.         West End. NC-22736.         8.330 etc.         8.330 etc.         9.440 etc.         9.312 etc.  | B20.04004  | E04                               | Eleor                                  | 2               | 1         |                                   | E14282410                      |
| Longleal Truss Company,         West End, NC-27276,         8.330 s Mar 232 2020 MTak Industries, Inc. Thu Apr 9 13.4247 2020 Page 2           LOAD CASE(5)         Standard Except:         DDM/CB/IHGHL_OdP33/WZZ/STV? cw/BCPHaSXLSQU/_WUes120Nispc0/hAJJHE(ssSR3M           Concentrated Loads (0)         Vett 8 = 800(F=180)         DDM/CB // FM //  | P20-04004  | F04                               | FIOO                                   | 2               | 1         | lob Reference (optional)          |                                |
| IDMMC9[HI6rIL_00Ps3X/V22:51V*:cvIBOPH48XL80Uy_WUes120Nip;coUnAUHEqs3SR3M<br>IDMMC9[HI6rIL_00Ps3X/V22:51V*:cvIBOPH48XL80Uy_WUes120Nip;coUnAUHEqs3SR3M<br>V10: 0 = 400(F=180)<br>2) Dead: Lumber Increase=1.00, Plate Increase=1.00<br>V10: 0 = 400(F=180)<br>V10: 0 = 400(F=180) | Longleaf Truss Company,                                    | West End, NC - 27376              | ,                                      |                 | 8.330 s M | ar 23 2020 MiTek Industries, Inc. | Thu Apr 9 13:42:47 2020 Page 2 |
| LOD CASE(S) Sensitive 1200;<br>Concentrate Increase=1.00, Plate Increase=1.00<br>Uniform Loads (U)<br>Ver. 12-41-0, 12-41-00, 68-280(F=180)<br>Concentrate I.cods (B)<br>Ver. 12-41-0, 12-41-00, 68-280(F=140)<br>Concentrate I.cods (B)<br>Ver. 12-420(F=140)<br>4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Cods (In)<br>Ver. 12-420(F=140)<br>5) 3d unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (ID)<br>Ver. 12-420(F=140)<br>5) 3d unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (ID)<br>Ver. 12-44-0, 12-420(F=140)<br>5) 3d unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (ID)<br>Ver. 12-44-0, 12-420(F=140)<br>5) 3d unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (ID)<br>Ver. 12-420(F=140)<br>5) 3d unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (ID)<br>Ver. 12-420(F=140)<br>5) 3d unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (ID)<br>Ver. 12-420(F=140)<br>5) 3d unbalanced II (Increase=1.00, Plate Increase=1.00, Plate Increase=1.00<br>Uniform Loads (ID)<br>Ver. 12-420(F=140)<br>5) 3d unbalanced; Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (ID)<br>Ver. 12-420(F=140)<br>5) 3d unbalanced; Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (ID)<br>Ver. 12-420(F=140)<br>5) 3d unbalanced; Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (ID)<br>Ver. 12-420(F=140)<br>5) 3d unbalanced; Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (ID)<br>Ver. 12-420(F=140)<br>5) 3d unbalanced; Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (ID)<br>Ver. 12-420(F=140)<br>5) 3d unbalanced; Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (ID)<br>Ver. 12-420(F=140)<br>5) 3d unbalanced; Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (ID)<br>Ver. 12-420(F=140)<br>5) 3d unbalanced; Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (ID)<br>Ver. 12-420(F=140)<br>5) 3d unbalanced; Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (ID)<br>Ver. 12-420(F=140)<br>5)   |  |                                   |  | ID:kMCBjIH5nfL_ | QdPs3XVV  | 2ZzSTv?-cwlBOPHa6XL8QUy_W         | /Uee120NibjzoUnAJJHEqszSR3M    |
| Lond Under Londs (In)<br>Vert: 9-460(F=180)<br>12) Dead Lumber Increase=1.00, Flate Increase=1.00<br>Unform Loads (In)<br>Vert: 9-14-10, 1-4=-100, 6-8=-280(F=-180)<br>Concentrated Loads (In)<br>Vert: 9-460(F=180)<br>13 It Dead + Proor Live (unbalanced): Lumber Increase=1.00, Flate Increase=1.00<br>Unform Loads (In)<br>Vert: 9-460(F=180)<br>12 And Dead + Thoor Live (unbalanced): Lumber Increase=1.00, Flate Increase=1.00<br>Unform Loads (In)<br>Vert: 9-460(F=180)<br>13 It Dead + Proor Live (unbalanced): Lumber Increase=1.00, Flate Increase=1.00<br>Unform Loads (In)<br>Vert: 9-460(F=180)<br>13 It Dead + Proor Live (unbalanced): Lumber Increase=1.00, Flate Increase=1.00<br>Unform Loads (In)<br>Vert: 9-460(F=180)<br>13 It Dead + Proor Live (unbalanced): Lumber Increase=1.00<br>Unform Loads (In)<br>Vert: 9-460(F=180)<br>14 It Dead Hond Loads (In)<br>Vert: 9-460(F=180)<br>13 It chase Ince 4 Floor Live (unbalanced): Lumber Increase=1.00<br>Unform Loads (In)<br>Vert: 9-460(F=180)<br>13 It chase Ince 4 Floor Live (unbalanced): Lumber Increase=1.00<br>Unform Loads (In)<br>Vert: 9-460(F=180)<br>14 It chase Ince 4 Floor Live (unbalanced): Lumber Increase=1.00, Flate Increase=1.00<br>Unform Loads (In)<br>Vert: 9-460(F=180)<br>14 It chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Flate Increase=1.00<br>Unform Loads (In)<br>Vert: 9-460(F=180)<br>14 It chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Flate Increase=1.00<br>Unform Loads (In)<br>Vert: 9-460(F=180)<br>10 It chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Flate Increase=1.00<br>Unform Loads (In)<br>Vert: 9-460(F=180)<br>10 It chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Flate Increase=1.00<br>Unform Loads (In)<br>Vert: 9-460(F=180)<br>10 It chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Flate Increase=1.00<br>Unform Loads (In)<br>Vert: 9-460(F=180)<br>10 It chase Dead + Floor Live (unbalanced): Lumber Increase=1.00<br>Unform Loads (In)<br>Vert: 9-460(F=180)<br>10 It chase Dead + Floor Live (Inbalanced): Lumber Increase=1.00<br>Unform Loads (In)<br>Vert: 9-460(F=180)<br>10 It chase Dead + Floor Live (Inbala  |  | d Eveent                          |  |                 |           |                                   |                                |
| Vert. 9-e60(P=+10)           Vert. 9-e60(P=+10)           Vort. 9-e620(P=+140)           4) 2nd Dead + Floor. Live (unbalanced): Lumber Increase=1.00           Vort. 9-e620(P=+140)           Concentrated Loads. (b)           Vort. 9-e620(P=+140)           Concentrated Loads. (b)           Vort. 9-e620(P=+10)  | Concentrated Loads (II                                     | a Except:                         |  |                 |           |                                   |                                |
| <ol> <li>Dead: Lumber increase=1.00, Plate increase=1.00</li> <li>Vert: 9-1410, 1-5100, 6-8280(F=-180)</li> <li>Vert: 8680(F=-180)</li> <li>J at Dead + Poor Live (inbalanced): Lumber increase=1.00, Plate increase=1.00</li> <li>Uniform Loads (inf)</li> <li>Vert: 8680(F=-180)</li> <li>J and Dead + Poor Live (inbalanced): Lumber increase=1.00, Plate increase=1.00</li> <li>Uniform Loads (inf)</li> <li>Vert: 8680(F=-180)</li> <li>J and Dead + Foor Live (inbalanced): Lumber increase=1.00, Plate increase=1.00</li> <li>Uniform Loads (inf)</li> <li>Vert: 8680(F=-180)</li> <li>Stational - 100, 6-8280(F=-180)</li> <li>Concentrated Loads (inf)</li> <li>Vert: 8680(F=-180)</li> <li>Stational - 100, 6-8160(F=-140)</li> <li>Concentrated Loads (inf)</li> <li>Vert: 8680(F=-180)</li> <li>Stational - 100, 6-8160(F=-140)</li> <li>Concentrated Loads (inf)</li> <li>Vert: 860(F=-180)</li> <li>Stational - 100, 6-8160(F=-140)</li> <li>Concentrated Loads (inf)</li> <li>Vert: 860(F=-180)</li> <li>Yet: 9-14-0(-1, 1-60, 6-8280(F=-180)</li> <li>Vert: 9-14-0(-1, 1-60, 6-8280(F=-180)</li> <li>Vert: 9-14-0(-1, 1-1, 1-0, -0, 6-8280(F=-180)</li> <li>Yet: 9-14-0(-1, 1-2-0, 2-8100, F=-140)</li> <li>Concentrated Loads (inf)</li> <li>Vert: 9-14-0(-1, 1-2-0, 2-8100, F=-180)</li> <li>Yet: 9-14-0(-1, 1-2-20, 2-8100, F=-180)</li> <li>Yet: 9-14-0(-1, 1-2-20, 2-8100, F=-180)</li> <li>Yet: 9-14-0(-1, 1-2-20, 2-8100, F=-180)</li> <li></li></ol>   | Vert: 8=-660(F   |                                   |  |                 |           |                                   |                                |
| Uniform Leads (pil)  | 2) Dead: Lumber Increas                                    | e=1.00, Plate Increase=1.         | 00                                     |                 |           |                                   |                                |
| Vert: 9-14-10, 1-5-100, 6-8-280(F=-180)           Concentrated Leads (b)           Vert: 8-680(F=-180)           J 15 Deal + Foor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00           Unitom Leads (b)           Vert: 8-620(F=-140)           4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00           Unitom Leads (b)           Vert: 8-620(F=-140)           5) 3d unbalanced Leads (b)           Vert: 8-630(F=-180)           5) 3d unbalanced Leads (b)           Vert: 8-630(F=-180)           5) 3d unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00           Uniform Leads (pf)           Vert: 8-630(F=-180)           6           7) 4d unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00           Uniform Leads (pf)           Vert: 8-630(F=-180)           6           7) 4d unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00           Uniform Leads (pf)           Vert: 8-630(F=-180)           Concentrated Leads (b)           Vert: 8-630(F=-180)  | Uniform Loads (plf)  | ,                                 |  |                 |           |                                   |                                |
| Concentrated Leads (b)<br>Vert: 9-149-10, 1-69-100, 6-8-160(F=-140)<br>Concentrated Leads (b)<br>Vert: 9-149-10, 1-69-20, 6-8-280(F=-180)<br>Concentrated Leads (b)<br>Vert: 9-149-10, 1-30-20, 6-8-280(F=-180)<br>Concentrated Leads (b)<br>Vert: 9-4-80(F=-180)<br>Concentrated Leads (b)<br>Vert: 9-4-90(F, 180)<br>Concentrated Leads (b)<br>Concentrated Leads (b)<br>C                                 | Vert: 9-14=-10   | ), 1-6=-100, 6-8=-280(F=-         | 180)                                   |                 |           |                                   |                                |
| Vert 8860(F=-160)           1 st Dead + Thoro Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00           Unform Loads (pl/)           2) and Deat + Sta-To.1, 16=-100, 6-8=-160(F=-140)           Concentrated Loads (pl/)           2) and Deat + Sta-To.1, 16=-20, 6-8=-280(F=-180)           Concentrated Loads (pl/)           Vert 8860(F=-140)           5) and unbalanced Deat. Lumber Increase=1.00, Plate Increase=1.00           Unform Loads (pl/)           Vert 8860(F=-140)           5) and unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00           Unform Loads (pl/)           Vert 8860(F=-140)           Concentrated Loads (b)           Vert 8860(F=-140)  | Concentrated Loads (II                                     | o)                                |  |                 |           |                                   |                                |
| <ul> <li>3) Tat Dead + Hoor Live (unbalanced): Lumber Increase=1.00.</li> <li>9) Homom Loads (p)</li> <li>Vert: 9-14=-10, 1-6=-100, F-8=-160(F=-140)</li> <li>Concentrated Loads (b)</li> <li>Vert: 8-e80(F=-140)</li> <li>Vert: 8-e80(F=-160)</li> <li>Vert: 8-e80(F=-160)<!--</td--><td>Vert: 8=-660(F</td><td>F=-180)</td><td></td><td></td><td></td><td></td><td></td></li></ul>  | Vert: 8=-660(F   | F=-180)                           |  |                 |           |                                   |                                |
| Online Loads (b)         Vert: 5=4a=10, 1=6=100, 6=8=-160(F=-140)           Vort: 5=6=20(F=-140)         Vert: 5=6=20(F=-140)           4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00         Unform Loads (p)           Vert: 5=14=-10, 1=6=-20, 6=8=-280(F=-180)         Concentrate Loads (P=-100)           5) 3rd unruber Increase=1.00, Plate Increase=1.00         Unform Loads (p)           Vert: 5=14=-10, 1=6=-100, 6=8=-160(F=-140)         Concentrate Loads (D)           Concentrate Loads (D)         Vert: 5=450(F=-140)           Concentrate Loads (D)         Vert: 5=450(F=-140)           Occoncentrate Loads (D)         Vert: 5=450(F=-140)           Vert: 5=450(F=-140)         Vert: 5=450(F=-160)           Vert: 5=450(F=-160)         Vert: 5=450(F=-160)   | 3) 1st Dead + Floor Live (                                 | unbalanced): Lumber Inc           | ease=1.00, Plate Increase=1.00         |                 |           |                                   |                                |
| Concentrate Lasts (b) To the Normal Stressen 1.00 Plate Increase=1.00 Plate Increase=1   | Vert: 9-1410   | 1-6100 6-8160(F                   | 140)                                   |                 |           |                                   |                                |
| Ver. 3 = -502(F=-140)           9 / adl Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (pl)           Vert: 9 = -4.00, 1.6=-20, 6-8=-280(F=-180)           Concentrated Loads (pl)           Vert: 9 = -4.00, 1.6=-20, 6-8=-280(F=-180)           Si ad unbalanced Deads: Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (pl)           Vert: 9 = -4.00, 1-6=-100, 6-8=-160(F=-140)           Concentrated Loads (b)           Vert: 9 = -4.00, 1-6=-20, 6-8=-280(F=-180)           Concentrated Loads (b)           Vert: 9 = -4.01, 1-6=-20, 6-8=-280(F=-180)           Concentrated Loads (b)           Vert: 9 = -4.01, 1-6=-20, 6-8=-280(F=-180)           Concentrated Loads (b)           Vert: 9 = -4.01, 1-6=-20, 6-8=-280(F=-180)           Concentrated Loads (b)           Vert: 9 = -4.01, 1-6=-20, 6-8=-280(F=-180)           Concentrated Loads (b)           Vert: 9 = -4.01, 1-5=-20, 2-6=-100, F=-160)           Vert: 9 = -4.01, 1-5=-20, 2-6=-160(F=-140)           Concentrated Loads (b)           Vert: 9 = -4.01, 1-2=-20, 2-6=-160(F=-140)           Concentrated Loads (b)           Vert: 9 = -4.01, 1-2=-20, 2-6=-160(F=-140)           Concentrated Loads (b)           Vert: 9 = -4.01, 1-2=-20, 2-6=-160(F=-140)           Variorm Loads (  | Concentrated Loads (II                                     | ), 1 0= 100, 0 0= 100(1 =         | (140)                                  |                 |           |                                   |                                |
| <ul> <li>4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00<br/>Uniform Loads (bit)<br/>Vert: 3-4-10, 1-6=-20, 6-8=-280(F=-180)</li> <li>Concentrated Loads (b)<br/>Vert: 3-4-60(F=-180)</li> <li>5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00<br/>Uniform Loads (b)<br/>Vert: 4-4-10, 1-6=-100, 6-8=-160(F=-140)</li> <li>Concentrated Loads (b)<br/>Vert: 4-4-20, 1-6=-20, 6-8=-280(F=-180)</li> <li>Concentrated Loads (b)<br/>Vert: 5-460(F=-180)</li> <li>7) 1st Asase Dead + Lumber Increase=1.00, Plate Increase=1.00<br/>Uniform Loads (p)<br/>Vert: 5-14=-10, 1-5=-20, 6-8=-280(F=-180)</li> <li>Concentrated Loads (b)<br/>Vert: 5-460(F=-180)</li> <li>7) 1st Asase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00<br/>Uniform Loads (p)<br/>Vert: 5-460(F=-180)</li> <li>8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00<br/>Uniform Loads (p)</li> <li>Vert: 5-460(F=-180)</li> <li>Concentrated Loads (b)<br/>Vert: 5-460(F=-180)</li> <li>9) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00<br/>Uniform Loads (p)</li> <li>Vert: 5-460(F=-180)</li> <li>10 chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00</li> <li>10 form Loads (p)</li> <li>Vert: 5-460(F=-180)</li> <li>10 chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00</li> <li>10 drint Loads (p)</li> <li>Vert: 5-460(F=-180)</li> <li>10 chase Dead + Floor Live (unbalanced): Lumber Increase=1.00</li> <li>10 inform Loads (p)</li> <li>Vert: 5-460(F=-180)</li> <li>10 drint Loads (p)</li> <li>10 drint Loads (p)</li> <li>10 drint Loads (p)</li> <li>10 drint Loa</li></ul>   | Vert: 8=-620(F   |                                   |  |                 |           |                                   |                                |
| Uniform Loads (pi)<br>Vert: 8-460(F=-180)<br>5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pi)<br>Vert: 9-14=-10, 1-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (p)<br>Vert: 9-14=-10, 1-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (p)<br>Vert: 9-14=-10, 1-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (p)<br>Vert: 9-14=-10, 1-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (p)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Vert: 9-14=-10, 1-3=-20, 2-6=-100, F=-140)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Vert: 9-14=-10, 1-3=-100, 6-8=-160(F=-140)<br>Concentrated Loads (b)<br>Vert: 8-8-20(F=-140)<br>1) User delined: Lumber Increase=1.00<br>Uniform Loads (b)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (b)<br>Vert: 9-14=-10, 1-2=-20, 0-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (b)   | 4) 2nd Dead + Floor Live                                   | (unbalanced): Lumber Inc          | rease=1.00, Plate Increase=1.00        |                 |           |                                   |                                |
| Vert: 9-14-9-10, 16=-20, 6-88-230(F=-180)           Concentrated Loads (b)           Vert: 8-630(F=-180)           5) 37 durbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (b)           Vert: 9-14-9-10, 1-6=-100, 6-8=-160(F=-140)           Concentrated Loads (b)           Vert: 9-14-9-10, 1-6=-20, 6-8=-280(F=-180)           Concentrated Loads (b)           Vert: 9-14-9-10, 1-6=-20, 6-8280(F=-180)           Concentrated Loads (b)           Vert: 8-660(F=-180)           7) 1st chase Bead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (b)           Vert: 8-660(F=-180)           7) 1st chase Bead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (b)           Vert: 8-660(F=-180)           8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Vert 3-64-610, Fe-180)           Concentrated Loads (b)           Vert: 9-14-10, 1-2=-20, 2-6=-100, 6-8=-180(F=-140)           Concentrated Loads (b)           Vert: 9-14-10, 1-2=-20, 2-6=-100, 6-8=-280(F=-180)           Concentrated Loads (b)           Vert: 9-14-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)           Concentrated Loads (b)           Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-280(F=-140)           10 drindm Loads (pf)  | Uniform Loads (plf)  |                                   |  |                 |           |                                   |                                |
| Concentrated Loads (lb)<br>Vert: 8-660(F=180)<br>5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 8-620(F=-140)<br>6) 4ft unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 8-620(F=-180)<br>7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-3=-20, 6-8=-280(F=-180)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-3=-20, 6-8=-280(F=-180)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20(F=-180)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20(F=-180)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-3=-100, 6-8=-160(F=-140)<br>Concentrated Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (plf)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20(F=-140)<br>Vert: 8-680(F=-140)<br>9) 3rd chase Dead: Lumber Increase=1.00<br>Uniform Loads (plf)<br>Vert: 8-620(F=-140)<br>9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 8-620(F=-140)<br>10) 4ft chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 8-620(F=-140)<br>10) 4ft chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 8-620(F=-140)<br>10) 4ft chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 8-620(F=-140)<br>10) 4ft chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 8-620(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 8-620(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 8-620(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 8-620(F=-140)<br>12) Vert: 8-620(F=-140)<br>13) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 8-620(F=-140)<br>14) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 8-620(F=-140)<br>15) Vert: 8-620(F=-140)<br>16) Vert: 8-620(F   | Vert: 9-14=-10   | ), 1-6=-20, 6-8=-280(F=-1         | 80)                                    |                 |           |                                   |                                |
| Vert: 8-500(F=-180)           5) 3rd unblanced Dead: Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (plf)           Vert: 8-620(F=-140)           6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (plf)           Vert: 9-14=-10, 1-6=-20, 6-8=-280(F=-180)           Concentrated Loads (plf)           Vert: 9-14=-10, 1-6=-20, 6-8=-280(F=-180)           Concentrated Loads (plf)           Vert: 9-14=-10, 1-3=-100, 3-68=-20, 6-8=-280(F=-180)           Concentrated Loads (plf)           Vert: 9-14=-10, 1-3=-100, 3-68=-20, 6-8=-280(F=-180)           Concentrated Loads (plf)           Vert: 8-660(F=-180)           8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (plf)           Vert: 8-660(F=-180)           9) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (plf)           Vert: 8-620(F=-140)           9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (plf)           Vert: 8-620(F=-140)           10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (plf)           Vert: 8-620(F=-140)           Vert: 8-620(F=-140)           Vert: 8-620(F=-14  | Concentrated Loads (II                                     | D)                                |  |                 |           |                                   |                                |
| (a) do induitation deals (pf)           Vert: 9-14a=-10, 1-6a=-100, 6-8a=-160(F=-140)           Concentrated Loads (pl)           Vert: 8-4620(F=-140)           (b) 4th unblanced Dead: Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (pl)           Vert: 8-4620(F=-140)           (c) 4th unblanced Dead: Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (pl)           Vert: 9-14a=-10, 1-6=-20, 6-8a=-280(F=-180)           Concentrated Loads (b)           Vert: 9-14a=-10, 1-3=-100, 3-6a=-280(F=-180)           Concentrated Loads (b)           Vert: 9-4a=-10, 1-3=-100, 3-6a=-280(F=-180)           Concentrated Loads (b)           Vert: 9-4a=-10, 1-3=-100, 3-6a=-280(F=-180)           Concentrated Loads (b)           Vert: 9-4a=-10, 1-2=-20, 2-6a=-100, 6-8a=-160(F=-140)           Concentrated Loads (b)           Vert: 8-620(F=-140)           9) 3rd chase Dead: Lumber Increase=1.00           Uniform Loads (pl)           Vert: 8-420(F=-140)           9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (pl)           Vert: 8-420(F=-140)           9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (pl)           Vert: 8-420(F=-140)           10) 4th chase Dead: Lu  | Vert: 8=-660(F   | ·=-180)<br>Lumbor Incrosco=1.00 P | late Increase-1.00                     |                 |           |                                   |                                |
| Wart: 9:14=-10, 1-6=-100, 6-8=-160(F=-140)           Concentrated Loads (lth)           Vert: 8=-620(F=-140)           6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (plf)           Vert: 9:14=-10, 1-6=-20, 6-8=-280(F=-180)           Concentrated Loads (b)           Vert: 9:14=-10, 1-6=-20, 6-8=-280(F=-180)           Concentrated Loads (plf)           Vert: 9:14=-10, 1:3=-100, 3-6=-2, 6-8=-280(F=-180)           Concentrated Loads (plf)           Vert: 9:14=-10, 1:3=-100, 3-6=-2, 6-8=-280(F=-180)           Concentrated Loads (plf)           Vert: 9:14=-10, 1:2=-20, 2-6=-100, 6-8=-160(F=-140)           Concentrated Loads (b)           Vert: 9:14=-10, 1:2=-20, 2-6=-100, 6-8=-160(F=-140)           Concentrated Loads (b)           Vert: 8=-620(F=-140)           9) 3rd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00           Uniform Loads (plf)           Vert: 8=-620(F=-140)           9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (b)           Vert: 8=-620(F=-180)           Concentrated Loads (b)           Vert: 8=-620(F=-180)           10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00           Uniform Loads (plf)           Vert: 8=-620(F=-140)  | Uniform Loads (nlf)  | Lumber micrease=1.00, F           |  |                 |           |                                   |                                |
| Concentrated Loads (lb)<br>Vert: 8=-620(F=-140)<br>6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 9:14=-10, 1-5=-20, 6-8=-280(F=-180)<br>Concentrated Loads (lb)<br>Vert: 8=-660(F=-180)<br>7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 9:14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (lb)<br>Vert: 8=-660(F=-180)<br>8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 8=-660(F=-180)<br>8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 9:14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9:14=-10, 1.3=-100, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 9:14=-10, 1.3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (lb)<br>Vert: 9:460(F=-180)<br>10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 9:460(F=-180)<br>10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 9:460(F=-180)<br>10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 9:4620(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 9:4620(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 9:44=-10, 1:2=-20, 2:48=-100, Fe=-8=10(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9:44=-10, 1:2=-20, 2:48=-100, Fe=-8=100(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9:44=-10, 1:2=-20, 2:48=-100, Fe=-8=10(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9:44=-10, 1:48=-100, Fe=-8=-100(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9:44=-10, 1:48=-100, Fe=-8=0(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9:44=-10(F), 1:48=-100(F), 6:48=-280(F)<br>Concentrated Loads (lb)   | Vert: 9-14=-10   | ). 1-6=-100. 6-8=-160(F=-         | 140)                                   |                 |           |                                   |                                |
| Vert: 8620(F=-140) (6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 9-14-10, 1-6=-20, 6-8=-280(F=-180) Concentrated Loads (lb) Vert: 9-460(F=-180) (7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180) Concentrated Loads (lb) Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140) Concentrated Loads (lb) Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140) Concentrated Loads (lb) Vert: 9-14=-10, 1-2=-20, 2-6=-100, F=-180) Concentrated Loads (lb) Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180) Concentrated Loads (lb) Vert: 9-14=-10, 1-2=-20, 2-6=-100, F=-180) Concentrated Loads (lb) Vert: 9-14=-10, 1-2=-20, 6-8=-280(F=-180) Concentrated Loads (lb) Vert: 8=-680(F=-180) Concentrated Loads (lb) Vert: 8=-680(F=-180) Concentrated Loads (lb) Vert: 8=-620(F=-140) Concentrated Loads (lb) Concentrated Loads (lb) Vert: 8=-620(F=-140) Concentrated Loads (lb)  | Concentrated Loads (II                                     | )<br>)                            | - /                                    |                 |           |                                   |                                |
| <ul> <li>(6) thi unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (pl)</li> <li>Vert: 8-460(F=-180)</li> <li>(7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (pl)</li> <li>Vert: 8-460(F=-180)</li> <li>(7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (pl)</li> <li>Vert: 9-460(F=-180)</li> <li>(8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (pl)</li> <li>Vert: 9-600(F=-180)</li> <li>(8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (pl)</li> <li>Vert: 9-620(F=-140)</li> <li>(9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00</li> <li>Vert: 8-620(F=-140)</li> <li>(9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (pl)</li> <li>Vert: 8-620(F=-140)</li> <li>(9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (pl)</li> <li>Vert: 8-620(F=-180)</li> <li>(10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (pl)</li> <li>Vert: 8-660(F=-180)</li> <li>(10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (pl)</li> <li>Vert: 8-660(F=-140)</li> <li>(10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (pl)</li> <li>Vert: 8-620(F=-140)</li> <li>(10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (pl)</li> <li>Vert: 8-620(F=-140)</li> <li>(10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (pl)</li> <li>Vert: 8-620(F=-140)</li> <li>(11) User defined: Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (pl)</li> <li>Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)</li> <li>Concentrated Loads (pl)</li> <li>Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)</li> </ul>  | Vert: 8=-620(F   | =-140)                            |  |                 |           |                                   |                                |
| Uniform Loads (pl/<br>Vert: 9-14=-10, 1-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (b)<br>Vert: 9-660(F=-180)<br>7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl/<br>Vert: 9-14=-10, 1-3=-100, 3-6=-280(F=-180)<br>Concentrated Loads (b)<br>Vert: 9-660(F=-180)<br>8) 2nd chase Dead + Eloro Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl/<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (b)<br>Vert: 9-620(F=-140)<br>9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl/<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (b)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (b)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (b)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-280(F)<br>Concentrated Loads (b)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-280(F=-160)<br>Uniform Loads (pl/<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-280(F)<br>Concentrated Loads (b)  | 6) 4th unbalanced Dead:                                    | Lumber Increase=1.00, P           | late Increase=1.00                     |                 |           |                                   |                                |
| Vert: 9-14a-10, 1-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (b)<br>Vert: 8-660(F=-180)<br>7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00<br>Uniform Loads (pl)<br>Vert: 9-14a-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (b)<br>8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00<br>Uniform Loads (pl)<br>Vert: 8-660(F=-180)<br>8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00<br>Uniform Loads (pl)<br>Vert: 9-14a-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (b)<br>Vert: 8-620(F=-140)<br>9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 9-14a-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (pl)<br>Vert: 8-660(F=-180)<br>10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 9-14a-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (pl)<br>Vert: 8-660(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 8200(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 8200(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 8200(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 8200(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (pl)<br>Vert: 8200(F=-140)<br>12) User defined: Lumber Increase=1.00(F], 6-8=-280(F]<br>Concentrated Loads (pl)   | Uniform Loads (plf)  |                                   |  |                 |           |                                   |                                |
| Vert: 8-e60(F=180)         Yet: 8-e60(F=180)         Yet: 9:14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)         Concentrated Loads (lb)         Vert: 9:14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)         Concentrated Loads (lb)         Vert: 8-e60(F=-180)         8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00         Uniform Loads (plf)         Vert: 9:14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)         Concentrated Loads (lb)         Vert: 8=620(F=-140)         9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00         Uniform Loads (plf)         Vert: 9:14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)         Concentrated Loads (lb)         Vert: 9:14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)         Concentrated Loads (lb)         Vert: 9:14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)         Concentrated Loads (plf)         Vert: 9:14=-10, 1, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)         Concentrated Loads (plf)         Vert: 9:14=-10, 1, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)         Concentrated Loads (lb)         Vert: 9:14=-10, 1, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)         Concentrated Loads (lb)         Vert: 9:14=-10, 1, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)         Concentrated Loads (lb)         Vert: 9:14=-10(F), 1.6=-1  | Vert: 9-14=-10<br>Concontrated Loads (II                   | ), 1-6=-20, 6-8=-280(F=-1)        | 80)                                    |                 |           |                                   |                                |
| <ul> <li>7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (plf)</li> <li>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)</li> <li>Concentrated Loads (lb)</li> <li>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)</li> <li>Concentrated Loads (lb)</li> <li>Vert: 8620(F=-140)</li> <li>9) 3rd chase Dead + Elor Live (unbalanced): Lumber Increase=1.00</li> <li>Uniform Loads (plf)</li> <li>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)</li> <li>Concentrated Loads (lb)</li> <li>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)</li> <li>Concentrated Loads (lb)</li> <li>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)</li> <li>Concentrated Loads (lb)</li> <li>Vert: 8=-680(F=-180)</li> <li>10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (plf)</li> <li>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)</li> <li>Concentrated Loads (lb)</li> <li>Vert: 8=-620(F=-140)</li> <li>11) User defined: Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (plf)</li> <li>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)</li> <li>Concentrated Loads (lb)</li> <li>Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)</li> <li>Concentrated Loads (lb)</li> </ul>   | Vert: 8=-660(F   | 5)<br>=-180)                      |  |                 |           |                                   |                                |
| Uniform Loads (plf)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (lb)<br>Vert: 8=-660(F=-180)<br>8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 8-420(F=-140)<br>9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, F=-180)<br>10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, F=-180)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, F=-140)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, F=-140)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, F=-140)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)<br>Concentrated Loads (lb)  | 7) 1st chase Dead + Floo                                   | r Live (unbalanced): Lumb         | per Increase=1.00. Plate Increase=1.00 |                 |           |                                   |                                |
| Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (lb)<br>Vert: 8660(F=-180)<br>8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 8620(F=-140)<br>9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (lb)<br>Vert: 8=-660(F=-180)<br>10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 8=-660(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 8=-620(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10(F, 1-6=-100(F, 6-8=-280(F)<br>Concentrated Loads (lb)   | Uniform Loads (plf)  | . (                               |  |                 |           |                                   |                                |
| Concentrated Loads (lb)<br>Vert: 8660(F=-180)<br>8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 8-620(F=-140)<br>9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-3=-100, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, F-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-6=-100(F), 6-8=-280(F)<br>Concentrated Loads (lb)  | Vert: 9-14=-10   | ), 1-3=-100, 3-6=-20, 6-8=        | -280(F=-180)                           |                 |           |                                   |                                |
| Vert: 860(F=-180)<br>8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 8-620(F=-140)<br>9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)<br>Concentrated Loads (lb)   | Concentrated Loads (II                                     | o)                                |  |                 |           |                                   |                                |
| <ul> <li>a) 2nd chase Dead + Floot Live (unbalanced): Lumber increase=1.00, Plate increase=1.00<br/>Uniform Loads (plf)<br/>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)</li> <li>concentrated Loads (lb)<br/>Vert: 8620(F=-140)</li> <li>g) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br/>Uniform Loads (plf)<br/>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)</li> <li>Concentrated Loads (lb)<br/>Vert: 9=-660(F=-180)</li> <li>10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br/>Uniform Loads (plf)<br/>Vert: 9=-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)</li> <li>Concentrated Loads (lb)<br/>Vert: 9=-620(F=-140)</li> <li>11) User defined: Lumber Increase=1.00, Plate Increase=1.00</li> <li>Uniform Loads (plf)<br/>Vert: 9=-14=-100, Flate Increase=1.00</li> <li>Vert: 9=-14=-100, Flate Increase=1.00</li> </ul>  | Vert: 8=-660(F   | -=-180)                           |  |                 |           |                                   |                                |
| Wart: 9:14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)         Concentrated Loads (lb)         Vert: 9:-620(F=-140)         9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00         Uniform Loads (plf)         Vert: 9:14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)         Concentrated Loads (lb)         Vert: 9:14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)         Concentrated Loads (lb)         Vert: 8=-660(F=-180)         10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00         Uniform Loads (plf)         Vert: 9:14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)         Concentrated Loads (lb)         Vert: 9:14=-10, F, 1-6=-100(F), 6-8=-280(F)         Concentrated Loads (plf)         Vert: 9:14=-10(F), 1-6=-100(F), 6-8=-280(F)         Concentrated Loads (plf)         Vert: 9:14=-10(F), 1-6=-100(F), 6-8=-280(F)         Concentrated Loads (lb)   | <li>8) 2nd chase Dead + Floor<br/>Uniform Loads (nlf)</li> | or Live (unbalanced): Lum         | ber Increase=1.00, Plate Increase=1.00 |                 |           |                                   |                                |
| Concentrated Loads (lb)<br>Vert: 8=-620(F=-140)<br>9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (lb)<br>Vert: 8=-660(F=-180)<br>10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 8=-620(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)<br>Concentrated Loads (plf)<br>Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)<br>Concentrated Loads (lb)  | Vert: 9-14=-10   | ). 1-2=-20. 2-6=-100. 6-8=        | -160(F=-140)                           |                 |           |                                   |                                |
| Vert: 8=-620(F=-140)<br>9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (lb)<br>Vert: 8=-660(F=-180)<br>10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 8=-620(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)<br>Concentrated Loads (lb)  | Concentrated Loads (II                                     | o)                                |  |                 |           |                                   |                                |
| <ul> <li>9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br/>Uniform Loads (plf)<br/>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br/>Concentrated Loads (lb)<br/>Vert: 8=-660(F=-180)</li> <li>10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br/>Uniform Loads (plf)<br/>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br/>Concentrated Loads (lb)<br/>Vert: 8=-620(F=-140)</li> <li>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br/>Uniform Loads (plf)<br/>Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)<br/>Concentrated Loads (lb)</li> </ul>   | Vert: 8=-620(F   |                                   |  |                 |           |                                   |                                |
| Uniform Loads (plf)<br>Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (lb)<br>Vert: 8=-660(F=-180)<br>10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 8=-620(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)<br>Concentrated Loads (lb)  | 9) 3rd chase Dead: Lumb                                    | er Increase=1.00, Plate Ir        | crease=1.00                            |                 |           |                                   |                                |
| Vert: 9-14=-10, 1-3=-100, 3-6=-20, 6-8=-280(F=-180)<br>Concentrated Loads (lb)<br>Vert: 8=-660(F=-180)<br>10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 8=-620(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)<br>Concentrated Loads (lb)   | Uniform Loads (plf)  |                                   | 202(5 422)                             |                 |           |                                   |                                |
| Vert: 860(F=-180)         10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00         Uniform Loads (plf)         Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)         Concentrated Loads (lb)         Vert: 8-620(F=-140)         11) User defined: Lumber Increase=1.00, Plate Increase=1.00         Uniform Loads (plf)         Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)         Concentrated Loads (lb)  | Vert: 9-14=-10   | ), 1-3=-100, 3-6=-20, 6-8=        | -280(F=-180)                           |                 |           |                                   |                                |
| 10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00         Uniform Loads (plf)         Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)         Concentrated Loads (lb)         Vert: 8=-620(F=-140)         11) User defined: Lumber Increase=1.00, Plate Increase=1.00         Uniform Loads (plf)         Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)         Concentrated Loads (lb)   | Vert: 8660(F   | 5)<br>=180)                       |  |                 |           |                                   |                                |
| Uniform Loads (plf)<br>Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 8=-620(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)<br>Concentrated Loads (lb)  | 10) 4th chase Dead: Lum                                    | ber Increase=1.00. Plate          | Increase=1.00                          |                 |           |                                   |                                |
| Vert: 9-14=-10, 1-2=-20, 2-6=-100, 6-8=-160(F=-140)<br>Concentrated Loads (lb)<br>Vert: 8=-620(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)<br>Concentrated Loads (lb)   | Uniform Loads (plf)  |                                   |  |                 |           |                                   |                                |
| Concentrated Loads (lb)<br>Vert: 8=-620(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)<br>Concentrated Loads (lb)  | Vert: 9-14=-1  | 0, 1-2=-20, 2-6=-100, 6-8         | =-160(F=-140)                          |                 |           |                                   |                                |
| Vert: 8=-620(F=-140)<br>11) User defined: Lumber Increase=1.00, Plate Increase=1.00<br>Uniform Loads (plf)<br>Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)<br>Concentrated Loads (lb)   | Concentrated Loads   | (lb)                              |  |                 |           |                                   |                                |
| Uniform Loads (plf)<br>Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)<br>Concentrated Loads (lb)  | Vert: 8=-620   | (F=-140)                          |  |                 |           |                                   |                                |
| Vert: 9-14=-10(F), 1-6=-100(F), 6-8=-280(F)<br>Concentrated Loads (Ib)   | 11) User defined: Lumbe                                    | r increase=1.00, Plate Inc        | rease=1.00                             |                 |           |                                   |                                |
| Concentrated Loads (lb)  | Vert· 9-141  | 0(F) 1-6=-100(F) 6-82             | 80(F)                                  |                 |           |                                   |                                |
|  | Concentrated Loads   | (lb)                              |  |                 |           |                                   |                                |

Vert: 8=-660(F=-180)





2) Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 11-17=-10, 1-8=-100, 8-10=-280

# Continued on page 2

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



818 Soundside Road Edenton, NC 27932

A. GILD

April 9,2020

| Job                     | Truss                 | Truss Type | Qty | Ply        | JOB 09-2020-020   |       |
|-------------------------|-----------------------|------------|-----|------------|---|-------|
|                         |                       |            |     |            | E1428   | 82411 |
| P20-04004               | F05                   | Floor      | 3   | 1          |   |       |
|                         |                       |            |     |            | Job Reference (optional)                                      |       |
| Longleaf Truss Company, | West End, NC - 27376, |            | 8   | 3.330 s Ma | r 23 2020 MiTek Industries, Inc. Thu Apr 9 13:42:48 2020 Page | e 2   |

8.330 s Mar 23 2020 MiTek Industries, Inc. Thu Apr 9 13:42:48 2020 Page 2 ID:kMCBjIH5nfL\_QdPs3XVV2ZzSTv?-47JZbIHCtrT?2eXA4C9taFZSh??8XxqJYz10MJzSR3L

| LOAD CASE(S) Standard Except:   |
|---|
| Concentrated Loads (lb)   |
| Vert: 10=-660   |
| 3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00                      |
| Uniform Loads (plf)   |
| Vert: 11-17=-10, 1-8=-100, 8-10=-160  |
| Concentrated Loads (lb)   |
| Vert: 10=-620   |
| 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00                      |
| Uniform Loads (plf)   |
| Vert: 11-17=-10, 1-8=-20, 8-10=-280   |
| Concentrated Loads (lb)   |
| Vert: 10=-660   |
| <ol><li>3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00</li></ol>                      |
| Uniform Loads (plf)   |
| Vert: 11-17=-10, 1-8=-100, 8-10=-160  |
| Concentrated Loads (Ib)   |
| Vert: 10=-620   |
| <ol><li>6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00</li></ol>                   |
| Uniform Loads (plf)   |
| Vert: 11-17=-10, 1-8=-20, 8-10=-280   |
| Concentrated Loads (lb)   |
| Vert: 10=-660   |
| 7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00                |
| Uniform Loads (plf)   |
| Vert: 11-17=-10, 1-5=-100, 5-8=-20, 8-10=-280   |
| Concentrated Loads (lb)   |
| Vert: 10=-660   |
| 8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00                |
| Uniform Loads (plf)   |
| Vert: 11-17=-10, 1-4=-20, 4-8=-100, 8-10=-160   |
| Concentrated Loads (lb)   |
| Vert: 10=-620   |
| 9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00  |
|   |
| Vert: 11-17=-10, 1-5=-100, 5-8=-20, 8-10=-280   |
| Concentrated Loads (Ib)   |
| Vert: 10=-660   |
| 10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00   |
|   |
| Vert: 11-17=-10, 1-4=-20, 4-8=-100, 8-10=-160   |
| Concentrated Loads (ID)   |
| Vert: 10=-620   |
| Liniform Loado (olf)  |
| Unitoriti Lucius (pii)<br>$V_{\text{ort}}$ 11 17 - 10/E) 1.8 - 100/E) 8.10 - 280/E - 100)             |
| $v_{\text{eff}}$ , $11-1/=-10(\Gamma)$ , $1-\delta=-100(\Gamma)$ , $\delta-10=-2\delta0(\Gamma=-100)$ |
| Vort: 10- 660   |
|   |

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





|   | 7-8-4<br>7-8-4  |   | 8-8-4  | 9-8-4<br>1-0-0                                    |                                  |   | 14-8-0<br>4-11-12                      |   |
|---|---|---|--|---|----------------------------------|---|--|---|
| Plate Offsets (X,Y)   | [10:0-1-8,Edge], [12:0-1-8,Edge], [13:0-  | 1-8,Edge], [16:0-1-8,Edge], [                           | 17:0-1-8,0-1-4]                                  |   |                                  |   |  |   |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2018/TPI2014 | CSI.<br>TC 0.84<br>BC 0.78<br>WB 0.36<br>Matrix-S       | <b>DEFL.</b><br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in (loc)<br>-0.17 13-14<br>-0.23 13-14<br>0.03 10 | l/defl<br>>998<br>>736<br>n/a    | L/d<br>480<br>360<br>n/a                      | <b>PLATES</b><br>MT20<br>Weight: 80 lb | <b>GRIP</b><br>244/190<br>FT = 8%F, 4%E |
| LUMBER-<br>TOP CHORD 2x4 SP<br>BOT CHORD 2x4 SP<br>WEBS 2x4 SP  | No.1(flat)<br>No.1(flat)<br>No.3(flat)  | BRACING-<br>TOP CHOR<br>BOT CHOR                        | D Sheath<br>D Rigid c                            | ned or 6-0-<br>eiling direc                       | 0 oc purlins,<br>ctly applied or | except end verticals.<br>• 10-0-0 oc bracing. |  |   |
| REACTIONS. (size<br>Max G   | e) 16=Mechanical, 10=0-5-8<br>rav 16=789(LC 1), 10=783(LC 1)                        |   |  |   |                                  |   |  |   |
| FORCES. (lb) - Max.<br>TOP CHORD 2-3=-  | Comp./Max. Ten All forces 250 (lb) or<br>1425/0, 3-4=-2162/0, 4-5=-2225/0, 5-6=     | less except when shown.<br>-2225/0, 6-7=-2225/0, 7-8=-' | 1382/0   |   |                                  |   |  |   |

BOT CHORD 15-16=0/902, 14-15=0/1927, 13-14=0/2330, 12-13=0/2225, 11-12=0/1911, 10-11=0/871

6-12=-475/0, 2-16=-1158/0, 2-15=0/727, 3-15=-698/0, 3-14=0/327, 8-10=-1136/0,

8-11=0/711, 7-11=-734/0, 7-12=0/754, 4-13=-321/220

NOTES-

WEBS

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

2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

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

4) Plates checked for a plus or minus 0 degree rotation about its center.

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

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

7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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Concentrated Loads (lb) Vert: 10=-660

2) Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf) Vert: 11-17=-10, 1-8=-100, 8-10=-280

# Continued on page 2

🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not being read to be only with thread outpetting the boots into besign is based only door parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Edenton, NC 27932

G 11111111

| Job                         | Truss                            | Truss Type                           | Qty            | Ply       | JOB 09-2020-020   |                                |
|-----------------------------|----------------------------------|--------------------------------------|----------------|-----------|---|--------------------------------|
|                             |                                  |                                      |                |           |   | E14282413                      |
| P20-04004                   | F07                              | Floor                                | 1              | 1         |   |                                |
|                             | West End NC - 27376              |                                      |                | 8 330 s M | JOB Reference (optional)<br>ar 23 2020 MiTek Industries Ind | Thu Apr 9 13:42:50 2020 Page 2 |
| Longiear muss company,      | West Life, NC - 27570,           |                                      | ID:kMCBjIH5nfL | QdPs3XV   | /2ZzSTv?-1VRJ0QJSPSjjHyhZ                                   | BdCLfgeoBphc?rJc?GWuQBzSR3J    |
|                             |                                  |                                      |                |           |   | •                              |
| LOAD CASE(S) Standard       | Except:                          |                                      |                |           |   |                                |
| Concentrated Loads (lb      | )                                |                                      |                |           |   |                                |
| Vert: 10=-660               | wholen and \. I work as in area  | and 1.00 Plate Increases 1.00        |                |           |   |                                |
| 3) ISt Dead + Floor Live (L | inbalanced): Lumber Increa       | ise=1.00, Plate increase=1.00        |                |           |   |                                |
| Vert: 11-17=-1(             | ) 1-8=-100 8-10=-160             |                                      |                |           |   |                                |
| Concentrated Loads (Ib      | )                                |                                      |                |           |   |                                |
| Vert: 10=-620               | ,                                |                                      |                |           |   |                                |
| 4) 2nd Dead + Floor Live (  | unbalanced): Lumber Increa       | ase=1.00, Plate Increase=1.00        |                |           |   |                                |
| Uniform Loads (plf)         |                                  |                                      |                |           |   |                                |
| Vert: 11-17=-10             | ), 1-8=-20, 8-10=-280            |                                      |                |           |   |                                |
| Concentrated Loads (Ib      | )                                |                                      |                |           |   |                                |
| Vert: 10=-660               |                                  |                                      |                |           |   |                                |
| 5) 3rd unbalanced Dead: L   | umber increase=1.00, Plate       | e Increase=1.00                      |                |           |   |                                |
| Vort: 11 17- 10             | 1 9- 100 9 10- 160               |                                      |                |           |   |                                |
| Concentrated Loads (Ib)     | )                                |                                      |                |           |   |                                |
| Vert: 10=-620               |                                  |                                      |                |           |   |                                |
| 6) 4th unbalanced Dead: L   | umber Increase=1.00, Plate       | e Increase=1.00                      |                |           |   |                                |
| Uniform Loads (plf)         |                                  |                                      |                |           |   |                                |
| Vert: 11-17=-10             | ), 1-8=-20, 8-10=-280            |                                      |                |           |   |                                |
| Concentrated Loads (Ib      | )                                |                                      |                |           |   |                                |
| Vert: 10=-660               |                                  |                                      |                |           |   |                                |
| 7) 1st chase Dead + Floor   | Live (unbalanced): Lumber        | Increase=1.00, Plate Increase=1.00   |                |           |   |                                |
| Uniform Loads (pif)         |                                  | 200                                  |                |           |   |                                |
| Vent: 11-17=-10             | ), 1-5=-100, 5-8=-20, 8-10=<br>\ | -280                                 |                |           |   |                                |
| Vert: 10=-660               | )                                |                                      |                |           |   |                                |
| 8) 2nd chase Dead + Floo    | r Live (unbalanced): Lumbe       | r Increase=1.00. Plate Increase=1.00 | 1              |           |   |                                |
| Uniform Loads (plf)         |                                  |                                      |                |           |   |                                |
| Vert: 11-17=-10             | 0, 1-4=-20, 4-8=-100, 8-10=      | -160                                 |                |           |   |                                |
| Concentrated Loads (Ib      | )                                |                                      |                |           |   |                                |
| Vert: 10=-620               |                                  |                                      |                |           |   |                                |
| 9) 3rd chase Dead: Lumbe    | er Increase=1.00, Plate Incre    | ease=1.00                            |                |           |   |                                |
| Uniform Loads (plf)         |                                  | 222                                  |                |           |   |                                |
| Vert: 11-17=-10             | ), 1-5=-100, 5-8=-20, 8-10=      | -280                                 |                |           |   |                                |
| Vert: 10660                 | )                                |                                      |                |           |   |                                |
| 10) 4th chase Dead: Lumb    | per Increase=1.00 Plate Inc      | rease=1 00                           |                |           |   |                                |
| Uniform Loads (plf)         |                                  |                                      |                |           |   |                                |
| Vert: 11-17=-               | 10, 1-4=-20, 4-8=-100, 8-10      | =-160                                |                |           |   |                                |
| Concentrated Loads (I       | b)                               |                                      |                |           |   |                                |
| Vert: 10=-620               |                                  |                                      |                |           |   |                                |
| 11) User defined: Lumber    | Increase=1.00, Plate Increa      | ase=1.00                             |                |           |   |                                |
| Uniform Loads (plf)         |                                  | 20/F 400)                            |                |           |   |                                |
| Vert: 11-17=-               | 10(F), 1-8=-100(F), 8-10=-2      | 80(F=-100)                           |                |           |   |                                |
| Concentrated Loads (I       | u)                               |                                      |                |           |   |                                |

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Vert: 10=-660





|   | 4-11-12<br>4-11-12   | 5-11-12<br>1-0-0   | 6-11-12<br>1-0-0  | 11<br>4-  | -11-8<br>11-12                                 |  |
|---|--|--|---|---|--|--|
| Plate Offsets (X,Y)   | [1:Edge,0-1-8], [9:0-1-8,Edge], [11:0-1-8  | ,Edge], [12:0-1-8,Edge], [14                             | :0-1-8,Edge], [15:0-1   | -8,0-1-4], [16:0-1-8,0-1-4]   |  |  |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES<br>Code. IRC2018/TPI2014 | <b>CSI.</b><br>TC 0.33<br>BC 0.35<br>WB 0.24<br>Matrix-S | <b>DEFL.</b> i<br>Vert(LL) -0.00<br>Vert(CT) -0.07<br>Horz(CT) 0.02 | n (loc) I/defl L/d<br>5 12-13 >999 480<br>7 12-13 >999 360<br>2 9 n/a n/a | PLATES<br>MT20<br>Weight: 66 lb                | <b>GRIP</b><br>244/190<br>FT = 8%F 4%F |
| LUMBER-<br>TOP CHORD 2x4 SP<br>BOT CHORD 2x4 SP<br>WEBS 2x4 SP  | P No.1(flat)<br>P No.1(flat)<br>P No.3(flat)   |  | BRACING-<br>TOP CHORD<br>BOT CHORD                                  | Sheathed or 6-0-0 oc purlins,<br>Rigid ceiling directly applied o         | except end verticals.<br>or 10-0-0 oc bracing. |  |
| REACTIONS. (size<br>Max G   | e) 14=0-10-0, 9=0-5-8<br>irav 14=631(LC 1), 9=631(LC 1)  |  |   |   |  |  |
| FORCES. (lb) - Max.   | Comp./Max. Ten All forces 250 (lb) or  | less except when shown.                                  |   |   |  |  |

TOP CHORD 2-3=-1059/0, 3-4=-1494/0, 4-5=-1494/0, 5-6=-1494/0, 6-7=-1059/0

BOT CHORD 13-14=0/693, 12-13=0/1397, 11-12=0/1494, 10-11=0/1397, 9-10=0/693

WEBS 4-12=-262/0, 5-11=-262/0, 2-14=-903/0, 2-13=0/509, 3-13=-470/0, 3-12=-22/393,

7-9=-903/0, 7-10=0/509, 6-10=-470/0, 6-11=-22/393

# NOTES-

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

2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

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

4) Plates checked for a plus or minus 0 degree rotation about its center.

5) 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.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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|   |   |   | 10-11-8   |   |  | 1                                       |
|---|---|---|---|---|--|---|
| Plate Offsets (X,Y)   | [1:Edge,0-1-8], [19:0-1-8,0-1-4]  |   |   |   |  |   |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014 | CSI.<br>TC 0.07<br>BC 0.02<br>WB 0.03<br>Matrix-R | DEFL. ir<br>Vert(LL) n/a<br>Vert(CT) n/a<br>Horz(CT) 0.00 | n (loc) l/defl L/d<br>a - n/a 999<br>a - n/a 999<br>0 10 n/a n/a  | <b>PLATES</b><br>MT20<br>Weight: 51 lb       | <b>GRIP</b><br>244/190<br>FT = 8%F, 4%E |
| LUMBER-<br>TOP CHORD 2x4 SF<br>BOT CHORD 2x4 SF<br>WEBS 2x4 SF  | P No.1(flat)<br>P No.1(flat)<br>No.3(flat)  |   | BRACING-<br>TOP CHORD<br>BOT CHORD                        | Sheathed or 6-0-0 oc purlins,<br>Rigid ceiling directly applied o | except end verticals<br>r 10-0-0 oc bracing. |   |

10-11-8

# REACTIONS. All bearings 10-11-8.

2x4 SP No.3(flat)

(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

# NOTES-

OTHERS

- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is
- the responsibility of the fabricator to increase plate sizes to account for these factors.
- 2) All plates are 1.5x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 0 degree rotation about its center.

4) Gable requires continuous bottom chord bearing.

- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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|   | 4-5-12  | 5-5-12  | 6-5-12  | 1   | 10-11-8                                       |   |
|---|---|---|---|---|---|---|
| Plate Offsets (X,Y)   | 4-5-12<br>[1:Edge,0-1-8], [9:0-1-8,Edge], [11:0-1-8   | <u>1-0-0</u><br>3,Edge], [12:0-1-8,Edge], [14                             | <u>1-0-0</u><br>1:0-1-8,Edge], [15:0-1-6                      | 8,0-1-4]  | 4-5-12  |   |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014                 | CSI.<br>TC 0.31<br>BC 0.31<br>WB 0.22<br>Matrix-S                         | DEFL. in<br>Vert(LL) -0.05<br>Vert(CT) -0.06<br>Horz(CT) 0.01 | (loc) l/defl L/d<br>11 >999 480<br>11 >999 360<br>9 n/a n/a       | <b>PLATES</b><br>MT20<br>Weight: 63 lb        | <b>GRIP</b><br>244/190<br>FT = 8%F, 4%E |
| LUMBER-<br>TOP CHORD 2x4 SP<br>BOT CHORD 2x4 SP<br>WEBS 2x4 SP  | 2 No.1(flat)<br>2 No.1(flat)<br>2 No.3(flat)  | · · · · · ·   | BRACING-<br>TOP CHORD<br>BOT CHORD                            | Sheathed or 6-0-0 oc purlins,<br>Rigid ceiling directly applied o | except end verticals.<br>r 10-0-0 oc bracing. |   |
| REACTIONS. (size<br>Max G   | e) 14=0-10-0, 9=Mechanical<br>rav 14=579(LC 1), 9=586(LC 1)   |   |   |   |   |   |
| FORCES. (lb) - Max.<br>TOP CHORD 2-3=-<br>BOT CHORD 13-14   | Comp./Max. Ten All forces 250 (lb) or<br>947/0, 3-4=-1258/0, 4-5=-1261/0, 5-6=-<br>4=0/630, 12-13=0/1243, 11-12=0/1261. | less except when shown.<br>1259/0, 6-7=-963/0<br>10-11=0/1248, 9-10=0/653 |   |   |   |   |

 BOT CHORD
 13-14=0/630, 12-13=0/1243, 11-12=0/1261, 10-11=0/1248, 9-10=0/653

 WEBS
 4-12=-399/147, 5-11=-385/160, 2-14=-820/0, 2-13=0/441, 3-13=-409/0, 7-9=-839/0,

7-10=0/431, 6-10=-395/0, 3-12=-178/469, 6-11=-194/451

NOTES-

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

2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

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

4) Plates checked for a plus or minus 0 degree rotation about its center.

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

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

7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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

818 Soundside Road Edenton, NC 27932



REACTIONS. (size) 5=0-3-8, 7=0-10-0 Max Grav 5=290(LC 1), 7=284(LC 1)

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

 TOP CHORD
 2-3=-293/0

 BOT CHORD
 6-7=0/282, 5-6=0/271

 WEBS
 2-7=-366/0, 3-5=-365/0

# NOTES-

 As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

2) Plates checked for a plus or minus 0 degree rotation about its center.

3) 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.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

5) CAUTION, Do not erect truss backwards.



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



| Job                     | Truss                 | Truss Type            | Qty      | Ply        | JOB 09-2020-020   |
|-------------------------|-----------------------|-----------------------|----------|------------|---|
| B20 04004               | E12                   | Elear Supported Cable | 1        | 1          | E14282418   |
| F20-04004               |                       |                       | 1        |            | Job Reference (optional)  |
| Longleaf Truss Company, | West End, NC - 27376, | 1                     |          | 3.330 s Ma | r 23 2020 MiTek Industries, Inc. Thu Apr 9 13:42:54 2020 Page 1 |
|                         |                       | ID:kMCBjIH5           | nfL QdPs | 3XVV2ZzS   | Tv?-vHqqsoMzThD9mZ KQSGHpWpiOQBwxkZCwuU6ZyzSR3F                 |



Scale = 1:23.1



|   |   |   | 13-11-0  |   |   |   |
|---|---|---|--|---|---|---|
| I   |   |   | 13-11-8  |   |   | 1                                       |
| Plate Offsets (X,Y) [   | [1:Edge,0-1-8], [25:0-1-8,0-1-4]  |   |  |   |   |   |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014 | CSI.<br>TC 0.06<br>BC 0.01<br>WB 0.03<br>Matrix-R | DEFL. i<br>Vert(LL) n/.<br>Vert(CT) n/.<br>Horz(CT) 0.00 | n (loc) l/defl L/d<br>a - n/a 999<br>a - n/a 999<br>0 13 n/a n/a  | PLATES<br>MT20<br>Weight: 65 lb               | <b>GRIP</b><br>244/190<br>FT = 8%F, 4%E |
| LUMBER-<br>TOP CHORD 2x4 SP<br>BOT CHORD 2x4 SP   | No.1(flat)<br>No.1(flat)  |   | BRACING-<br>TOP CHORD<br>BOT CHORD                       | Sheathed or 6-0-0 oc purlins,<br>Rigid ceiling directly applied o | except end verticals<br>or 10-0-0 oc bracing. |   |

12-11-9

# REACTIONS. All bearings 13-11-8.

2x4 SP No.3(flat)

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

# NOTES-

OTHERS

- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is
- the responsibility of the fabricator to increase plate sizes to account for these factors.
- 2) All plates are 1.5x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 0 degree rotation about its center.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Non Standard bearing condition. Review required.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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| Plate Offsets (X,Y)   | [1:Edge,0-1-8], [12:Edge,0-1-8]   |  |   |   |  |   |
|---|---|--|---|---|--|---|
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2018/TPI2014 | <b>CSI.</b><br>TC 0.06<br>BC 0.02<br>WB 0.03<br>Matrix-R | DEFL.irVert(LL)n/aVert(CT)n/aHorz(CT)0.00 | n (loc) l/defl L/d<br>a - n/a 999<br>a - n/a 999<br>) 7 n/a n/a | PLATES<br>MT20<br>Weight: 30 lb                  | <b>GRIP</b><br>244/190<br>FT = 8%F, 4%E |
| LUMBER-<br>TOP CHORD 2x4 SF<br>BOT CHORD 2x4 SF<br>WEBS 2x4 SF  | <ul> <li>No.1(flat)</li> <li>No.1(flat)</li> <li>No.3(flat)</li> </ul>              |  | BRACING-<br>TOP CHORD<br>BOT CHORD        | Sheathed or 5-11-0 oc purlin Rigid ceiling directly applied     | s, except end verticals<br>or 10-0-0 oc bracing. |   |

## REACTIONS. All bearings 5-11-0.

2x4 SP No.3(flat)

(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

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

# NOTES-

OTHERS

- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 2) All plates are 1.5x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 0 degree rotation about its center.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Non Standard bearing condition. Review required.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. ARXING - Verify design parameters and READ NOTES ON THIS AND INCLODED WITER REFERENCE PAGE MIL-14's rev. 10/03/2013 BEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





# LUMBER-

| TOP CHORD | 2x4 SP No.1(flat |
|-----------|------------------|
| BOT CHORD | 2x4 SP No.1(flat |
| WEBS      | 2x4 SP No.3(flat |
| OTHERS    | 2v4 SP No 3(flat |

BRACING-TOP CHORD BOT CHORD

Sheathed or 5-8-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

### REACTIONS. All bearings 5-8-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 8, 9, 11, 10

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

# NOTES-

- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 2) All plates are 1.5x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 0 degree rotation about its center.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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| Job                     | Truss                 | Truss Type            | Qty | Ply        | JOB 09-2020-020   |
|-------------------------|-----------------------|-----------------------|-----|------------|---|
|                         |                       |                       |     |            | E14282421   |
| P20-04004               | F15                   | Floor Supported Gable | 1   | 1          |   |
|                         |                       |                       |     |            | Job Reference (optional)  |
| Longleaf Truss Company, | West End, NC - 27376, |                       | 8   | 3.330 s Ma | r 23 2020 MiTek Industries, Inc. Thu Apr 9 13:42:56 2020 Page 1 |

Thu Ap ID:kMCBjIH5nfL\_QdPs3XVV2ZzSTv?-rfobGUOD\_IUs?t8jYtlluxu2wEtSPe2VOCzDerzSR3D

Scale = 1:19.6



|   |   |   | 11-10-0   |  |  |   |
|---|---|---|---|--|--|---|
| I   |   |   | 11-10-8   |  |  | I.                                      |
| Plate Offsets (X,Y)   | [1:Edge,0-1-8], [20:Edge,0-1-8]   |   |   |  |  |   |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014 | CSI.<br>TC 0.06<br>BC 0.01<br>WB 0.03<br>Matrix-R | DEFL. ir<br>Vert(LL) n/a<br>Vert(CT) n/a<br>Horz(CT) 0.00 | n (loc) l/defl L/d<br>a - n/a 999<br>a - n/a 999<br>) 11 n/a n/a   | PLATES<br>MT20<br>Weight: 55 lb            | <b>GRIP</b><br>244/190<br>FT = 8%F, 4%E |
| LUMBER-<br>TOP CHORD 2x4 S<br>BOT CHORD 2x4 S<br>WEBS 2x4 S   | SP No.1(flat)<br>SP No.1(flat)<br>SP No.3(flat)   | 1   | BRACING-<br>TOP CHORD<br>BOT CHORD                        | Sheathed or 6-0-0 oc purlins,<br>Rigid ceiling directly applied or | except end verticals<br>10-0-0 oc bracing. | i.                                      |

44 40 0

### REACTIONS. All bearings 11-10-8.

2x4 SP No.3(flat)

(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

# NOTES-

OTHERS

- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is
- the responsibility of the fabricator to increase plate sizes to account for these factors.
- 2) All plates are 1.5x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 0 degree rotation about its center.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Non Standard bearing condition. Review required.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. WARNING - Verify design parameters and KEAD NOTES ON THIS AND INCLUDED MITER KETERENCE PAGE MIT-14's rev. 10/04/2013 BETORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





|   |   |   | 10-9-10  |     |
|---|---|---|--|-----|
| Plate Offsets (X,Y)   | [1:Edge,0-1-8], [19:0-1-8,0-1-4]  |   |  |     |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014 | CSI.<br>TC 0.06<br>BC 0.01<br>WB 0.03<br>Matrix-R | DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         n/a         -         n/a         999           Vert(CT)         n/a         -         n/a         999           Horz(CT)         0.00         10         n/a         n/a           Weight:         48 lb         FT = 8%F, 4 | •%E |
| LUMBER-<br>TOP CHORD 2x4 SP<br>BOT CHORD 2x4 SP<br>WEBS 2x4 SP  | P No.1(flat)<br>P No.1(flat)<br>P No.3(flat)  |   | BRACING-TOP CHORDSheathed or 6-0-0 oc purlins, except end verticals.BOT CHORDRigid ceiling directly applied or 10-0-0 oc bracing.  |     |

10-9-10

# REACTIONS. All bearings 10-9-10.

2x4 SP No.3(flat)

(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

# NOTES-

OTHERS

- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is
- the responsibility of the fabricator to increase plate sizes to account for these factors.
- 2) All plates are 1.5x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 0 degree rotation about its center.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.

6) Non Standard bearing condition. Review required.

- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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| Job                     | Truss                 | Truss Type            | Qty | Ply        | JOB 09-2020-020   |
|-------------------------|-----------------------|-----------------------|-----|------------|---|
| D20 04004               | E17                   | Floor Supported Coble | 1   | 1          | E14282423   |
| P20-04004               |                       |                       | 1   | 1          | Job Reference (optional)  |
| Longleaf Truss Company, | West End, NC - 27376, |                       |     | 3.330 s Ma | r 23 2020 MiTek Industries, Inc. Thu Apr 9 13:42:57 2020 Page 1 |

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| <u> </u>  |   |  | 11-11-8<br>11-11-8                          |                                      |  |  |   |
|---|---|--|---|--------------------------------------|--|--|---|
| Plate Offsets (X,Y)   | [1:Edge,0-1-8], [20:Edge,0-1-8], [21:0-1  | -8,0-1-4]  |   |                                      |  |  |   |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2018/TPI2014 | <b>CSI.</b><br>TC 0.06<br>BC 0.01<br>WB 0.03<br>Matrix-R | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) 0 | in (loc)<br>n/a -<br>n/a -<br>.00 11 | l/defl L/d<br>n/a 999<br>n/a 999<br>n/a n/a      | PLATES<br>MT20<br>Weight: 53 lb                    | <b>GRIP</b><br>244/190<br>FT = 8%F, 4%E |
| LUMBER-<br>TOP CHORD 2x4 SF<br>BOT CHORD 2x4 SF<br>WEBS 2x4 SF  | <sup>⊃</sup> No.1(flat)<br><sup>⊃</sup> No.1(flat)<br><sup>⊃</sup> No.3(flat)       |  | BRACING-<br>TOP CHORD<br>BOT CHORD          | Sheath<br>Rigid c                    | ed or 6-0-0 oc purlin<br>eiling directly applied | s, except end verticals<br>d or 10-0-0 oc bracing. | 5.                                      |

# REACTIONS. All bearings 11-11-8.

2x4 SP No.3(flat)

(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

# NOTES-

OTHERS

- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is
- the responsibility of the fabricator to increase plate sizes to account for these factors.
- 2) All plates are 1.5x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 0 degree rotation about its center.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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<sup>0-&</sup>lt;u>1-</u>8



| L  | 4-11-12  | 5-11-12 6-11-12                       | 14-8-2   |  |
|--|--|---------------------------------------|--|--|
|  | 4-11-12  | 1-0-0 1-0-0                           | 7-8-6  |  |
| Plate Offsets (X,Y)  | [1:Edge,0-1-8], [10:0-1-8,Edge], [13:0-1-  | 8,Edge], [14:0-1-8,Edge], [16         | 6:0-1-8,Edge], [17:0-1-8,0-1-4]  |  |
| LOADING (psf)<br>TCLL 40.0<br>TCDL 10.0<br>BCLL 0.0            | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Bep Stress Incr. YES | CSI.<br>TC 0.85<br>BC 0.84<br>WB 0.38 | DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.20         12-13         >876         480           Vert(CT)         -0.27         12-13         >638         360           Horz(CT)         0.04         10         p/a         p/a | PLATES         GRIP           MT20         244/190 |
| BCDL 5.0   | Code IRC2018/TPI2014   | Matrix-S                              |  | Weight: 76 lb FT = 8%F, 4%E                        |
| LUMBER-<br>TOP CHORD 2x4 SP<br>BOT CHORD 2x4 SP<br>WEBS 2x4 SP | 2 No.1(flat)<br>2 No.1(flat)<br>2 No.3(flat)                                     |                                       | BRACING-           TOP CHORD         Sheathed or 6-0-0 oc purlins,           BOT CHORD         Rigid ceiling directly applied or   | except end verticals.<br>· 10-0-0 oc bracing.      |
| REACTIONS. (size<br>Max G                                      | e) 16=0-3-8, 10=Mechanical<br>irav 16=784(LC 1), 10=790(LC 1)                    |                                       |  |  |
| FORCES (Ib) Max  | Comp (Max Top All forces 250 (lb) or   | loss avcont when shown                |  |  |

cept wh 0 (ID) 0

TOP CHORD 2-3=-1603/0, 3-4=-2581/0, 4-5=-2581/0, 5-6=-2581/0, 6-7=-2507/0, 7-8=-1652/0

BOT CHORD 15-16=0/1010, 14-15=0/2215, 13-14=0/2581, 12-13=0/2703, 11-12=0/2234, 10-11=0/1045 WEBS

4-14=-477/0, 2-16=-1245/0, 2-15=0/771, 3-15=-797/0, 3-14=0/793, 8-10=-1273/0,

8-11=0/789, 7-11=-758/0, 7-12=0/356, 6-12=-270/0, 6-13=-342/235

NOTES-

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

2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

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

4) Plates checked for a plus or minus 0 degree rotation about its center.

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

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

7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. ARXING - Verify design parameters and READ NOTES ON THIS AND INCLODED WITER REFERENCE PAGE MIL-14's rev. 10/03/2013 BEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





|   | 4-8-4  | 5-8-4 6-8-4                                       |  |   | 14-4-10<br>7-8-6                               |  |   |  |
|---|--|---|--|---|--|--|---|--|
| Plate Offsets (X,Y)   | [10:0-1-8,Edge], [13:0-1-8,Edge], [14:0-   | 1-8,Edge], [16:0-1-8,Edge]                        |  |   |  |  |   |  |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0     | SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2018/TPI2014  | CSI.<br>TC 0.93<br>BC 0.82<br>WB 0.42<br>Matrix-S | DEFL.         ir           Vert(LL)         -0.19           Vert(CT)         -0.26           Horz(CT)         0.04 | n (loc) //<br>12-13 ><br>512-13 ><br>10 | /defl L/d<br>884 480<br>643 360<br>n/a n/a     | <b>PLATES</b><br>MT20<br>Weight: 76 lb       | <b>GRIP</b><br>244/190<br>FT = 8%F, 4%E |  |
| LUMBER-<br>TOP CHORD 2x4 S<br>BOT CHORD 2x4 S<br>WEBS 2x4 S   | P No.1(flat)<br>P No.1(flat)<br>P No.3(flat)   |   | BRACING-<br>TOP CHORD<br>BOT CHORD   | Sheathed<br>Rigid ceili                 | or 2-2-0 oc purlins,<br>ng directly applied or | except end verticals<br>r 10-0-0 oc bracing. |   |  |
| REACTIONS. (siz<br>Max (  | ze) 16=Mechanical, 10=Mechanical<br>Grav 16=777(LC 1), 10=777(LC 1)  |   |  |   |  |  |   |  |
| FORCES.         (lb) - Max           TOP CHORD         2-3=           BOT CHORD         15-1           WEBS         4-14           7-11 | Max Grav 16=777(LC 1), 10=777(LC 1)<br>DRCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.<br>DP CHORD 2-3=-1603/0, 3-4=-2453/0, 4-5=-2482/0, 6-7=-2445/0, 7-8=-1619/0<br>DT CHORD 15-16=0/1028, 14-15=0/2216, 13-14=0/2482, 12-13=0/2626, 11-12=0/2186, 10-11=0/1028<br>EBS 4-14=-648/0, 2-16=-1252/0, 2-15=0/747, 3-15=-795/0, 8-10=-1251/0, 8-11=0/769,<br>7-11=-738/0, 7-12=0/337, 6-12=-253/0, 3-14=0/872, 6-13=-359/208 |   |  |   |  |  |   |  |
| NOTES-  |  |   |  |   |  |  |   |  |

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

2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

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

4) Plates checked for a plus or minus 0 degree rotation about its center.

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

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

7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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| <b> </b>  | 4-11-12  | 5-11-12 6-11-12   | +   |  | 14-8-2                                |  |   |
|---|--|---|---|--|---------------------------------------|--|---|
| Plate Offsets (X,Y)   | [1:Edge,0-1-8], [10:0-1-8,Edge], [13:0-1-  | -8,Edge], [14:0-1-8,Edge],  | [16:0-1-8,Edge], [17:0-1                                      | 1-8,0-1-4]   | 7-0-0                                 |  |   |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014                  | CSI.<br>TC 0.85<br>BC 0.84<br>WB 0.38<br>Matrix-S                               | DEFL. in<br>Vert(LL) -0.20<br>Vert(CT) -0.27<br>Horz(CT) 0.04 | (loc) l/defl<br>12-13 >876<br>12-13 >638<br>10 n/a | L/d<br>480<br>360<br>n/a              | <b>PLATES</b><br>MT20<br>Weight: 76 lb     | <b>GRIP</b><br>244/190<br>FT = 8%F, 4%E |
| LUMBER-<br>TOP CHORD 2x4 SP<br>BOT CHORD 2x4 SP<br>WEBS 2x4 SP  | No.1(flat)<br>No.1(flat)<br>No.3(flat)   |   | BRACING-<br>TOP CHORD<br>BOT CHORD                            | Sheathed or 6-0<br>Rigid ceiling dire              | )-0 oc purlins, o<br>ectly applied or | except end verticals<br>10-0-0 oc bracing. |   |
| REACTIONS. (size<br>Max G   | e) 16=0-3-8, 10=Mechanical<br>rav 16=784(LC 1), 10=790(LC 1)   |   |   |  |                                       |  |   |
| FORCES. (lb) - Max.<br>TOP CHORD 2-3=-<br>BOT CHORD 15-16   | Comp./Max. Ten All forces 250 (lb) or<br>1603/0, 3-4=-2581/0, 4-5=-2581/0, 5-6=<br>3=0/1010, 14-15=0/2215, 13-14=0/2581, | less except when shown.<br>-2581/0, 6-7=-2507/0, 7-8<br>12-13=0/2703, 11-12=0/2 | =-1652/0<br>2234, 10-11=0/1045                                |  |                                       |  |   |

WEBS 4-14=-477/0, 2-16=-1245/0, 2-15=0/771, 3-15=-797/0, 3-14=0/793, 8-10=-1273/0,

8-11=0/789, 7-11=-758/0, 7-12=0/356, 6-12=-270/0, 6-13=-342/235

NOTES-

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

2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

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

4) Plates checked for a plus or minus 0 degree rotation about its center.

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

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

7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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| L  | 4-3-15   | 5-3-15   | 6-3-15  | 5 10-9-10                  |                          |                               |                                  |  |   |
|--|--|--|---|----------------------------|--------------------------|-------------------------------|----------------------------------|--|---|
|  | 4-3-15   | 1-0-0  | 1-0-0   | 1                          |                          |                               | 4-                               | -5-11  |   |
| Plate Offsets (X,Y)  | [3:0-1-8,Edge], [8:0-1-8,Edge], [10:0-1-8  | ,Edge], [13:0-1-8,Edge], [1  | 4:0-1-8,0-1-4]                                |                            |                          |                               |                                  |  |   |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0  | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014  | CSI.<br>TC 0.30<br>BC 0.39<br>WB 0.22<br>Matrix-S                              | DEFL.<br>Vert(LL) -<br>Vert(CT) -<br>Horz(CT) | in<br>0.06<br>0.07<br>0.02 | (loc)<br>9-10<br>11<br>8 | l/defl<br>>999<br>>999<br>n/a | L/d<br>480<br>360<br>n/a         | PLATES<br>MT20<br>Weight: 58 lb                | <b>GRIP</b><br>244/190<br>FT = 8%F, 4%E |
| LUMBER-<br>TOP CHORD 2x4 SP<br>BOT CHORD 2x4 SP<br>WEBS 2x4 SP   | No.1(flat)<br>No.1(flat)<br>No.3(flat)   |  | BRACING-<br>TOP CHORD<br>BOT CHORD            | S                          | Sheath<br>Rigid ce       | ed or 6-0<br>eiling dire      | -0 oc purlins,<br>ctly applied o | except end verticals.<br>or 10-0-0 oc bracing. |   |
| REACTIONS. (size<br>Max G  | EACTIONS. (size) 13=Mechanical, 8=0-3-8<br>Max Grav 13=577(LC 1), 8=571(LC 1)  |  |   |                            |                          |                               |                                  |  |   |
| FORCES.         (lb) - Max.           TOP CHORD         2-3=-           BOT CHORD         12-13           WEBS         4-10=           3-12=   | <b>ORCES.</b> (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         OP CHORD       2-3=-1089/0, 3-4=-1425/0, 4-5=-1423/0, 5-6=-1075/0         JOT CHORD       12-13=0/750, 11-12=0/1425, 9-10=0/1410, 8-9=0/718         VEBS       4-10=-372/150, 2-13=-913/0, 2-12=0/441, 6-8=-883/0, 6-9=0/465, 5-9=-435/0, 3-12=-453/0, 5-10=-203/463 |  |   |                            |                          |                               |                                  |  |   |
| NOTES-<br>1) Unbalanced floor live<br>2) As requested, plates<br>the responsibility of 1<br>3) All plates are 3x4 M <sup>2</sup><br>4) Plates checked for a<br>5) Refer to girder(s) for | e loads have been considered for this de<br>have not been designed to provide for<br>he fabricator to increase plate sizes to a<br>f20 unless otherwise indicated.<br>plus or minus 0 degree rotation about it<br>truss to truss connections.  | sign.<br>blacement tolerances or rou<br>ccount for these factors.<br>s center. | ugh handling and e                            | erectior                   | n condi                  | tions. It i                   | s                                |  |   |

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

7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLODED MITER REFERENCE PAGE MIT-1473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTeRky 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 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/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 2214.



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| TCLL<br>TCDL<br>BCLL<br>BCDI            | (pst)<br>40.0<br>10.0<br>0.0      | Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr        | 2-0-0<br>1.00<br>1.00<br>YES        | TC<br>BC<br>WB | 0.20<br>0.08<br>0.10 | Vert(LL)<br>Vert(CT)<br>Horz(CT) | -0.00<br>-0.01<br>0.00 | (IOC)<br>9<br>8-9<br>8       | >999<br>>999<br>>999<br>n/a          | L/d<br>480<br>360<br>n/a                     | MT20  | 244/190 |
|---|-----------------------------------|--|-------------------------------------|----------------|----------------------|----------------------------------|------------------------|------------------------------|--------------------------------------|--|---|---------|
| LUMBER-<br>TOP CHOP<br>BOT CHOP<br>WEBS | RD 2x4 SP<br>RD 2x4 SP<br>2x4 SP  | No.1(flat)<br>No.1(flat)<br>No.3(flat)                 |                                     |                |                      | BRACING-<br>TOP CHOF<br>BOT CHOF | RD<br>RD               | Sheath<br>Rigid c<br>6-0-0 o | ed or 6-0<br>eiling dir<br>c bracino | 0-0 oc purlins<br>ectly applied<br>g: 10-11. | , except end verticals<br>or 10-0-0 oc bracing, | Except: |
|   | <b>IS.</b> All be<br>lb) - Max Gr | arings 5-6-2 except (jt=le<br>rav All reactions 250 lb | ngth) 8=0-3-8.<br>or less at joint( | s) 12, 8 exce  | ept 10=521(          | (LC 1), 10=521(LC                | 1), 11=2               | 293(LC                       | 3)                                   |  |   |         |

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. BOT CHORD 8-9=0/275

WEBS 6-8=-337/0, 5-10=-447/0

# NOTES-

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

 As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

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

4) Plates checked for a plus or minus 0 degree rotation about its center.

5) 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.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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# **REACTIONS.** (size) 14=Mechanical, 9=0-3-8

Max Grav 14=682(LC 1), 9=806(LC 1)

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

TOP CHORD 2-3=-1482/0, 3-4=-2167/0, 4-5=-2167/0, 5-6=-2167/0, 6-7=-1743/0

BOT CHORD 13-14=0/955, 12-13=0/2006, 11-12=0/2167, 10-11=0/2235, 9-10=0/1200

WEBS 4-12=-413/0, 2-14=-1137/0, 2-13=0/653, 3-13=-650/0, 7-9=-1425/0, 7-10=0/673,

6-10=-610/0, 3-12=0/593, 6-11=-293/39

NOTES-

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

2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

3) Plates checked for a plus or minus 0 degree rotation about its center.

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

5) 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.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) Use Simpson Strong-Tie THAC422 (6-16d Girder, 6-16d Truss) or equivalent at 8-9-13 from the left end to connect truss(es) to front face of top chord.

8) Fill all nail holes where hanger is in contact with lumber.

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

# LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 9-14=-10, 1-8=-100 Concentrated Loads (lb)

Vert: 15=-234(F)



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| L   | 4-8-4   | 5-8-4   | 6-8-4                                     | 1  |                               | 11                                 | -8-0   |   |
|---|---|---|---|--|-------------------------------|------------------------------------|--|---|
|   | 4-8-4   | 1-0-0   | 1-0-0                                     | 1  |                               | 4-1                                | 11-12  | 1                                       |
| Plate Offsets (X  | Y) [9:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1   | -8,Edge], [14:0-1-8,Edge]   |   |  |                               |                                    |  |   |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2018/TPI2014   | CSI.<br>TC 0.36<br>BC 0.39<br>WB 0.25<br>Matrix-S   | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in (loc)<br>-0.07 10-11<br>-0.09 10-11<br>0.02 9 | l/defl<br>>999<br>>999<br>n/a | L/d<br>480<br>360<br>n/a           | PLATES<br>MT20<br>Weight: 63 lb              | <b>GRIP</b><br>244/190<br>FT = 8%F, 4%E |
| LUMBER-<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS.   | 2x4 SP No.1(flat)<br>2x4 SP No.1(flat)<br>2x4 SP No.3(flat)<br>(size) 14=Mechanical, 9=0-3-8<br>Max Grav 14=628(LC 1), 9=628(LC 1)  |   | BRACING-<br>TOP CHOR<br>BOT CHOR          | RD Sheath<br>RD Rigid c                          | ned or 6-0<br>eiling dire     | )-0 oc purlins,<br>ectly applied o | except end verticals<br>r 10-0-0 oc bracing. |   |
| FORCES. (Ib)<br>TOP CHORD<br>BOT CHORD<br>WEBS  | - Max. Comp./Max. Ten All forces 250 (lb) or<br>2-3=-1223/0, 3-4=-1672/0, 4-5=-1680/0, 5-6=<br>13-14=0/818, 12-13=0/1607, 11-12=0/1680,<br>4-12=-350/38, 2-14=-996/0, 2-13=0/528, 3-13<br>6-10=-480/0, 3-12=-69/452, 6-11=-48/377 | less except when shown.<br>-1680/0, 6-7=-1225/0<br>10-11=0/1594, 9-10=0/819<br>3=-497/0, 7-9=-998/0, 7-10=0 | 0/528,                                    |  |                               |                                    |  |   |
| NOTES-  |   |   |   |  |                               |                                    |  |   |

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

2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

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

4) Plates checked for a plus or minus 0 degree rotation about its center.

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

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

7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



818 Soundside Road Edenton, NC 27932

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|   | 4-11-12   | 5-11-12  | 2 6-11-12  | 11-  | 11-8  |   |
|---|---|--|--|--|---|---|
| Plate Offsets (X,Y)   | [1:Edge,0-1-8], [9:0-1-8,Edge], [11:0-1-8   | ,Edge], [12:0-1-8,Edge], [1                              | 4:0-1-8,Edge], [15:0-1-8,  | ,0-1-4]  | 1-12  |   |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2018/TPI2014 | <b>CSI.</b><br>TC 0.34<br>BC 0.39<br>WB 0.27<br>Matrix-S | DEFL.         in           Vert(LL)         -0.07         1           Vert(CT)         -0.09         1           Horz(CT)         0.02         1 | (loc) l/defl L/d<br>10-11 >999 480<br>10-11 >999 360<br>9 n/a n/a    | PLATES (<br>MT20 2<br>Weight: 63 lb         | <b>GRIP</b><br>244/190<br>FT = 8%F, 4%E |
| LUMBER-<br>TOP CHORD 2x4 SP<br>BOT CHORD 2x4 SP<br>WEBS 2x4 SP  | No.1(flat)<br>No.1(flat)<br>No.3(flat)  |  | BRACING-<br>TOP CHORD S<br>BOT CHORD I   | Sheathed or 6-0-0 oc purlins, a<br>Rigid ceiling directly applied or | except end verticals.<br>10-0-0 oc bracing. |   |
| REACTIONS. (size<br>Max G   | e) 14=0-3-8, 9=0-3-8<br>rav 14=634(LC 1), 9=640(LC 1)                               |  |  |  |   |   |

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

TOP CHORD 2-3=-1235/0, 3-4=-1750/0, 4-5=-1750/0, 5-6=-1750/0, 6-7=-1257/0

BOT CHORD 13-14=0/808, 12-13=0/1632, 11-12=0/1750, 10-11=0/1643, 9-10=0/837

4-12=-267/0, 5-11=-260/0, 2-14=-995/0, 2-13=0/557, 3-13=-517/0, 3-12=-18/421,

7-9=-1020/0, 7-10=0/547, 6-10=-502/0, 6-11=-31/408

# NOTES-

WEBS

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

2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

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

4) Plates checked for a plus or minus 0 degree rotation about its center.

5) 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.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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| Job       | Truss | Truss Type | Qty | Ply | JOB 09-2020-020          |          |
|-----------|-------|------------|-----|-----|--------------------------|----------|
| P20-04004 | F27   | GABLE      | 1   | 1   | 1                        | 14282433 |
|           |       |            |     |     | Job Reference (optional) |          |

# Longleaf Truss Company, West End, NC - 27376,

0-1<sub>1</sub>8

8.330 s Mar 23 2020 MiTek Industries, Inc. Thu Apr 9 13:43:05 2020 Page 1 ID:kMCBjIH5nfL\_QdPs3XVV2ZzSTv?-5Or\_9ZVtt3cbaFKRaGztmrmacsyb0iHpS6eBSqzSR34

# 0-1<sub>1</sub>8



| 1-4-0 2<br>1-4-0 1  | 2-8-0 4-0-0 5-4-0 6-8-0<br>-4-0 1-4-0 1-4-0 1-4-0   | 8-0-0 9-4-0<br>1-4-0 1-4-0                        | 10-7-0<br>9-11-8   11-11-0<br>0-7-8 0-7-8 1-4-0           | 13-3-0<br>1-4-0                         | <u>14-7-0 15-11-0</u><br>1-4-0 1-4-0          | <u>17-3-0</u> <u>18-7-0</u> <u>19-11-0</u><br><u>1-4-0</u> <u>1-4-0</u>                          |
|---|---|---|---|---|---|--|
| Plate Offsets (X,Y)   | [1:Edge,0-1-8], [37:0-1-8,0-1-4], [38:0-1   | -8,0-1-4]   |   |   |   |  |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.00<br>Lumber DOL 1.00<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014 | CSI.<br>TC 0.06<br>BC 0.01<br>WB 0.03<br>Matrix-R | DEFL. ir<br>Vert(LL) n/z<br>Vert(CT) n/z<br>Horz(CT) 0.00 | n (loc) l/d<br>a - r<br>a - r<br>) 19 r | lefi L/d<br>n/a 999<br>n/a 999<br>n/a n/a     | PLATES         GRIP           MT20         244/190           Weight: 87 lb         FT = 8%F, 4%E |
| LUMBER-<br>TOP CHORD 2x4 SF<br>BOT CHORD 2x4 SF<br>WEBS 2x4 SF<br>OTHERS 2x4 SF   | P No.1(flat)<br>P No.1(flat)<br>P No.3(flat)<br>P No.3(flat)  |   | BRACING-<br>TOP CHORD<br>BOT CHORD                        | Sheathed o<br>Rigid ceiling             | or 6-0-0 oc purlins,<br>g directly applied or | except end verticals.<br>· 10-0-0 oc bracing.  |

# REACTIONS. All bearings 19-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 19, 27, 20, 21, 22, 23, 24, 25, 26, 35, 34, 33, 32, 30, 29, 28

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

# NOTES-

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

2) All plates are 1.5x4 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 0 degree rotation about its center.

4) Gable requires continuous bottom chord bearing.

5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

6) Gable studs spaced at 1-4-0 oc.

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

 Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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|                           | 8-11-8                                      | 9-11-8                         | 10-11-8               |                | 19-1                 | 1-0                          |                     |
|---------------------------|---|--------------------------------|-----------------------|----------------|----------------------|------------------------------|---------------------|
|                           | 8-11-8                                      | 1-0-0                          | 1-0-0                 |                | 8-11                 | 1-8                          | 1                   |
| Plate Offsets (X,Y)       | [1:Edge,0-1-8], [2:0-1-12,Edge], [5:0-1-8   | 3,Edge], [6:0-1-8,Edge], [10:0 | 0-1-12,Edge], [12:0   | -3-8,Edge], [  | 13:0-1-12,Edge],     | , [15:0-2-8,Edge], [17:0-3-0 | ,0-0-0],            |
|                           | [18:0-3-0,Edge], [21:0-2-8,Edge], [23:0-    | 1-12,Edge], [24:0-3-8,Edge],   | , [25:0-1-8,0-1-4], [ | 26:0-1-8,0-1-4 | 4]                   |                              |                     |
| I OADING (nsf)            | SPACING. 2-0-0                              | CSI                            | DEEL                  | in (loc)       | l/defl l/d           | PLATES                       | GRIP                |
| TCU 40.0                  | Plate Grip DOI 1 00                         | TC 0.59                        | Vert(LL) -0           | 37 17-18       | ×629 480             | MT20                         | 244/190             |
| TCDI 10.0                 | Lumber DOL 1.00                             | BC 0.70                        | Vert(CT) -0           | 51 17-18       | >023 400<br>>457 360 | 11120                        | 244/100             |
| BCU 0.0                   | Rep Stress Incr VES                         | WB 0.59                        | Horz(CT) 0            | 07 12          | /a n/a               |                              |                     |
| BCDI 5.0                  | Code IRC2018/TPI2014                        | Matrix-S                       | 1012(01) 0            | .07 12         | 11/a 11/a            | Weight: 115 lb               | FT - 8%F 1%F        |
| DODE 5.0                  |   | Matrix-0                       |                       |                |                      | Weight: 113 lb               | 1 1 = 0 /01 , 4 /0L |
| LUMBER-                   |   |                                | BRACING-              |                |                      |                              |                     |
| TOP CHORD 2x4 SE          | No 1(flat)                                  |                                | TOP CHORD             | Sheather       | d or 5-1-10 oc pi    | urlins except end verticals  |                     |
| BOT CHORD 2x4 SE          | P No 1(flat)                                |                                | BOT CHORD             | Rigid cei      | ling directly appli  | ied or 10-0-0 oc bracing     | •                   |
| WEBS 2x4 SE               | P No 3(flat)                                |                                | 201 0110112           | r tigita oor   | ing aready appr      | ieu er re e e ee staeilig.   |                     |
|                           |   |                                |                       |                |                      |                              |                     |
| REACTIONS. (size          | e) 12=0-3-8, 24=0-3-8                       |                                |                       |                |                      |                              |                     |
| Max G                     | iray 12=1069(LC 1), 24=1069(LC 1)           |                                |                       |                |                      |                              |                     |
|                           |   |                                |                       |                |                      |                              |                     |
| FORCES. (lb) - Max.       | Comp./Max. Ten All forces 250 (lb) or       | less except when shown.        |                       |                |                      |                              |                     |
| TOP CHORD 2-3=-           | 2344/0, 3-4=-3988/0, 4-5=-5070/0, 5-6=      | -5277/0, 6-7=-5070/0, 7-9=-3   | 3988/0,               |                |                      |                              |                     |
| 9-10=                     | =-2344/0                                    |                                |                       |                |                      |                              |                     |
| BOT CHORD 23-24           | 4=0/1393, 21-23=0/3300, 19-21=0/4682,       | 18-19=0/5277, 17-18=0/527      | 77, 16-17=0/5277,     |                |                      |                              |                     |
| 15-1                      | 6=0/4682, 13-15=0/3300, 12-13=0/1393        |                                |                       |                |                      |                              |                     |
| WEBS 5-18:                | -320/306, 6-17=-320/306, 2-24=-1718/0       | , 2-23=0/1238, 3-23=-1244/     | 0, 3-21=0/874,        |                |                      |                              |                     |
| 4-21:                     | -882/0, 4-19=0/576, 5-19=-670/181, 10       | 12=-1718/0, 10-13=0/1238,      | 9-13=-1244/0,         |                |                      |                              |                     |
| 9-15                      | =0/874, 7-15=-882/0, 7-16=0/576, 6-16=      | -670/181                       |                       |                |                      |                              |                     |
|                           |   |                                |                       |                |                      |                              |                     |
| NOTES-                    |   |                                |                       |                |                      |                              |                     |
| 1) Unbalanced floor liv   | e loads have been considered for this de    | esign.                         |                       |                |                      |                              |                     |
| 2) As requested, plates   | s have not been designed to provide for     | placement tolerances or rough  | gh handling and er    | ection conditi | ons. It is           |                              |                     |
| the responsibility of     | the fabricator to increase plate sizes to a | account for these factors.     |                       |                |                      |                              |                     |
| 3) All plates are 3x4 M   | T20 unless otherwise indicated.             |                                |                       |                |                      |                              |                     |
| 4) The Fabrication Tole   | erance at joint 20 = 4%                     |                                |                       |                |                      |                              | 1111                |
| 5) Plates checked for a   | a plus or minus 0 degree rotation about i   | s center.                      |                       |                |                      | IN CA                        | Dall                |
| 6) This truss is designed | ed in accordance with the 2018 Internation  | onal Residential Code sectio   | ns R502.11.1 and      | R802.10.2 an   | nd                   | "TH UT                       | O Mar               |
| referenced standard       | ANSI/TPI 1.                                 |                                |                       |                |                      | 2 ON SECK                    | id All              |
|                           |   |                                |                       |                |                      | A VIEFEUU                    |                     |

7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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|   | <u>8-11-8</u><br>8-11-8  | <mark>9-11-8</mark><br>  <mark>1-0-0</mark>   | 10-11-8   |  | 19-11-0<br>8-11-8                   |   |   |
|---|--|---|---|--|-------------------------------------|---|---|
| Plate Offsets (X,Y)   | [5:0-1-8,Edge], [6:0-1-8,Edge], [10:0-1-1<br>[23:0-1-12,Edge], [24:0-3-8,Edge], [25:0  | 2,Edge], [12:0-3-8,Edge], [13<br>-1-8,0-1-4]  | :0-1-12,Edge], [15:                                     | :0-2-8,Edge], [17:0  | 9-3-0,0-0-0], [18                   | :0-3-0,Edge], [21:0-2-                        | 8,Edge],                                |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0     | SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2018/TPI2014  | <b>CSI.</b><br>TC 0.59<br>BC 0.71<br>WB 0.59<br>Matrix-S                            | DEFL.<br>Vert(LL) -0.3<br>Vert(CT) -0.5<br>Horz(CT) 0.0 | in (loc) l/defl<br>88 17-18 >623<br>62 17-18 >452<br>17 12 n/a | L/d<br>480<br>360<br>n/a            | <b>PLATES</b><br>MT20<br>Weight: 115 lb       | <b>GRIP</b><br>244/190<br>FT = 8%F, 4%E |
| LUMBER-<br>TOP CHORD 2x4 Si<br>BOT CHORD 2x4 Si<br>WEBS 2x4 Si  | P No.1(flat)<br>P No.1(flat)<br>P No.3(flat)   |   | BRACING-<br>TOP CHORD<br>BOT CHORD                      | Sheathed or 5-<br>Rigid ceiling dir                            | 1-3 oc purlins,<br>ectly applied or | except end verticals.<br>r 10-0-0 oc bracing. |   |
| REACTIONS. (siz<br>Max (  | ze) 12=0-3-8, 24=0-3-8<br>Grav 12=1072(LC 1), 24=1078(LC 1)  |   |   |  |                                     |   |   |
| FORCES. (lb) - Max<br>TOP CHORD 2-3=<br>9-10<br>BOT CHORD 23-2<br>15-   | . Comp./Max. Ten All forces 250 (lb) or<br>2400/0, 3-4=-4036/0, 4-5=-5112/0, 5-6=<br>=-2353/0<br>4=0/1454, 21-23=0/3351, 19-21=0/4728,<br>6=0/4704 13-15=0/3313 12-13=0/1398                                 | less except when shown.<br>5311/0, 6-7=-5097/0, 7-9=-4<br>18-19=0/5311, 17-18=0/531 | 005/0,<br>I, 16-17=0/5311,                              |  |                                     |   |   |
| WEBS 5-18<br>4-21<br>7-15   | =-326/302, 6-17=-316/311, 2-24=-1770/0<br>=-879/0, 4-19=0/574, 10-12=-1723/0, 10-<br>=-888/0, 7-16=0/581, 6-16=-679/176, 5-1   | , 2-23=0/1232, 3-23=-1238/0<br>13=0/1243, 9-13=-1250/0, 9-<br>9=-665/190            | , 3-21=0/869,<br>15=0/880,                              |  |                                     |   |   |
| NOTES-<br>1) Unbalanced floor lin<br>2) As requested, plate<br>the responsibility of<br>3) The Fabrication Tol<br>4) Plates checked for | ve loads have been considered for this de<br>s have not been designed to provide for<br>the fabricator to increase plate sizes to a<br>erance at joint 20 = 4%<br>a plus or minus 0 degree rotation about it | sign.<br>placement tolerances or roug<br>ccount for these factors.<br>s center.     | h handling and erea                                     | ction conditions. In   | tis                                 |   | un,.                                    |

- 5) 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 10-0-0 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.



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| <b>⊢</b> −−−   | 4-8-4  |   |   | 5-8-4  | 6-8-4                                       | 6-9-12                   | 7-6-11 8-3-9                    | 8-8-1                                   |  |
|--|--|---|---|--|---|--------------------------|---------------------------------|---|--|
| Plate Offsets (X,Y)  | [8:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8  | ,Edge], [12:0-1-8,Edge]                           |   | 1-0-0  | 1-0-0                                       | 0-1-8                    | 0-6-15 0-6-15                   | 0-4-8                                   |  |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0      | SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2018/TPI2014  | CSI.<br>TC 0.72<br>BC 0.44<br>WB 0.40<br>Matrix-S | DEFL.<br>Vert(LL) -(<br>Vert(CT) -(<br>Horz(CT) ( | in (loc)<br>0.07 10-11<br>0.10 10-11<br>0.01 8 | I/defl<br>>999 -<br>>999 -<br>⊳999 :<br>n/a | L/d<br>480<br>360<br>n/a | PLATES<br>MT20<br>Weight: 49 lb | <b>GRIP</b><br>244/190<br>FT = 8%F, 4%E |  |
| LUMBER-<br>TOP CHORD 2x4 SF<br>BOT CHORD 2x4 SF<br>WEBS 2x4 SF   | JMBER-<br>JP CHORD     2x4 SP No.1(flat)     TOP CHORD     Sheathed or 6-0-0 oc purlins, except end verticals.       DT CHORD     2x4 SP No.1(flat)     BOT CHORD     Sheathed or 6-0-0 oc purlins, except end verticals.       EBS     2x4 SP No.3(flat)     BOT CHORD     Rigid ceiling directly applied or 10-0-0 oc bracing.               |   |   |  |   |                          |                                 |   |  |
| REACTIONS. (siz<br>Max C   | e) 12=Mechanical, 8=Mechanical<br>Srav 12=463(LC 1), 8=463(LC 1)   |   |   |  |   |                          |                                 |   |  |
| FORCES.         (lb) - Max.           TOP CHORD         2-3=           BOT CHORD         11-1           WEBS         4-10           6-9= | ORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         OP CHORD       2-3=-805/0, 3-4=-823/0, 4-5=-808/0, 5-6=-771/0         IOT CHORD       11-12=0/586, 10-11=0/943, 9-10=0/808, 8-9=0/614         VEBS       4-10=-46/261, 5-9=-718/0, 2-12=-713/0, 2-11=0/285, 6-8=-746/0, 3-10=-367/34, 6-9=0/845 |   |   |  |   |                          |                                 |   |  |
| NOTES-<br>1) Unbalanced floor liv<br>2) As requested, plate<br>the responsibility of   | 6-9=0/845<br><b>OTES-</b><br>) Unbalanced floor live loads have been considered for this design.<br>) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is<br>the responsibility of the fabricator to increase plate sizes to account for these factors.           |   |   |  |   |                          |                                 |   |  |

3) Plates checked for a plus or minus 0 degree rotation about its center.

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

5) 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.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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





Plates checked for a plus or minus 0 degree rotation about its center.

3) 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.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

5) CAUTION, Do not erect truss backwards.



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Edenton, NC 27932

| Job                     | Truss                 | Truss Type |       | Qty         | Ply                     | JOB 09-2020-020                                 |                           |                                      |                          |
|-------------------------|-----------------------|------------|-------|-------------|-------------------------|---|---------------------------|--------------------------------------|--------------------------|
| P20-04004               | F33                   | GABLE      |       | 1           | 1                       |   |                           |                                      | E14282439                |
|                         |                       |            |       |             |                         | Job Reference (optiona                          | l)                        |                                      |                          |
| Longleaf Truss Company, | West End, NC - 27376, |            | ID:kM | CBjIH5nfL_Q | 8.330 s Ma<br>dPs3XVV2Z | r 23 2020 MiTek Industri<br>zSTv?-RMetDGY?hbEth | es, Inc. Thu<br>0DPMpY2Ti | u Apr 9 13:43:10 2<br>uTRMtfmhzWYcON | 020 Page 1<br>//y81zSR3? |
| 0-1-18                  |                       |            |       |             |                         |   |                           |                                      |                          |
|                         |                       |            |       |             |                         |   |                           |                                      | Scale: 1/2"=1'           |
|                         |                       |            |       |             |                         |   |                           |                                      |                          |
|                         |                       |            |       |             |                         |   |                           |                                      |                          |
| 3x4                     |                       |            |       |             |                         |   |                           |                                      |                          |
| 2.5x6 =                 |                       |            |       |             |                         |   |                           |                                      | 3x6 =                    |
| 1 2                     | 3 4                   | 5          | 6 7   | 8           | 9                       | 10  | 11                        | 12                                   | 13                       |
|                         |                       |            |       |             |                         |   | -                         |                                      |                          |
|                         |                       |            |       |             |                         |   |                           | _                                    | 1-2-0                    |
|                         |                       |            |       |             |                         |   |                           |                                      |                          |
| 26 25                   | 24 23                 | 22         | 21 20 | 19          | 18                      | 17  | 16                        | 15                                   | 14                       |
| 3x6 =                   |                       |            |       |             |                         |   |                           |                                      | 3x6 =                    |
|                         |                       |            |       |             |                         |   |                           |                                      |                          |
|                         |                       |            |       |             |                         |   |                           |                                      |                          |
|                         |                       |            |       |             |                         |   |                           |                                      |                          |

| ⊢         | 1-4-0      | 2-8-0 4-0                | -0       | 5-4-0 | 6-8-0    | 7-4-1 | 8-0-2    | 9-4-2 |          | 10-8-2 |     | 12-0-2 | 13-4-2        | 14-8-2        |
|-----------|------------|--------------------------|----------|-------|----------|-------|----------|-------|----------|--------|-----|--------|---------------|---------------|
| Plate Off | sets (X,Y) | [1:Edge,0-1-8], [27:0-1- | 8,0-1-4] | 1-4-0 | 1-4-0    | 0-0-1 | 0-0-1    | 1-4-0 |          | 1-4-0  |     | 1-4-0  | 140           | 1-4-0         |
| LOADIN    | G (psf)    | SPACING-                 | 2-0-0    |       | CSI.     |       | DEFL.    | in    | (loc)    | l/defl | L/d |        | PLATES        | GRIP          |
| TCLL      | 40.0       | Plate Grip DOL           | 1.00     |       | TC 0.06  |       | Vert(LL) | n/a   | -        | n/a    | 999 |        | MT20          | 244/190       |
| TCDL      | 10.0       | Lumber DOL               | 1.00     |       | BC 0.01  |       | Vert(CT) | n/a   | -        | n/a    | 999 |        |               |               |
| BCLL      | 0.0        | Rep Stress Incr          | YES      |       | WB 0.03  |       | Horz(CT) | 0.00  | 14       | n/a    | n/a |        |               |               |
| BCDL      | 5.0        | Code IRC2018/            | TPI2014  |       | Matrix-R |       |          |       |          |        |     |        | Weight: 66 lb | FT = 8%F, 4%E |
| LUMBER    | LUMBER-    |                          |          |       |          |       |          |       | <b>.</b> |        |     |        |               |               |

### TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WEBS OTHERS 2x4 SP No.3(flat)

TOP CHORD BOT CHORD

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

### REACTIONS. All bearings 14-8-2.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 20, 15, 16, 17, 18, 19, 25, 24, 23, 22, 21

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

# NOTES-

- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is
- the responsibility of the fabricator to increase plate sizes to account for these factors.
- 2) All plates are 1.5x4 MT20 unless otherwise indicated. 3) Plates checked for a plus or minus 0 degree rotation about its center.

- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





# Continued on page

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April 9,2020

| Job                     | Truss                 | Truss Type    | Qty       | Ply        | JOB 09-2020-020   |           |
|-------------------------|-----------------------|---------------|-----------|------------|---|-----------|
|                         |                       |               |           |            |   | E14282440 |
| P20-04004               | G01                   | Common Girder | 1         | 2          |   |           |
|                         |                       |               |           | 3          | Job Reference (optional)                                |           |
| Longleaf Truss Company, | West End, NC - 27376, |               | 1         | 3.330 s Ma | r 23 2020 MiTek Industries, Inc. Thu Apr 9 13:43:13 202 | 20 Page 2 |
|                         |                       | ID:kM0        | CBjIH5nfL | _QdPs3X\   | V2ZzSTv?-sxK0rlbu_WdSYUx_2y6l4X5sE4UUu8N?IMad           | cjMzSR2y  |

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-43, 3-5=-43, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-800(B) 11=-800(B) 12=-800(B) 13=-800(B) 14=-800(B) 15=-800(B) 16=-800(B) 17=-800(B) 18=-800(B)

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# Plate Offsets (X,Y)-- [2:0-2-11,0-1-0], [2:0-1-0,0-6-11], [2:0-0-8,0-1-0], [4:0-3-4,0-1-4]

| LOADING (psf)<br>TCLL (roof) 2<br>Snow (Pf/Pg) 11.6/15<br>TCDL 1<br>BCLL<br>BCDL 1 | 20.0<br>5.0<br>10.0<br>0.0 *<br>10.0 | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2018/TP | 2-0-0<br>1.15<br>1.15<br>YES<br>I2014 | CSI.<br>TC<br>BC<br>WB<br>Matrix | 0.08<br>0.05<br>0.04<br><-P | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>0.00<br>0.00<br>-0.00 | (loc)<br>1<br>1<br>5   | l/defl<br>n/r<br>n/r<br>n/a | L/d<br>120<br>120<br>n/a     | PLATES<br>MT20<br>Weight: 26 lb  | <b>GRIP</b><br>244/190<br>FT = 20% |
|--|--------------------------------------|--|---------------------------------------|----------------------------------|-----------------------------|---|-----------------------------|------------------------|-----------------------------|------------------------------|----------------------------------|------------------------------------|
| LUMBER-<br>TOP CHORD 2x4 S<br>BOT CHORD 2x4 S<br>WEBS 2x4 S                        | SP No.1<br>SP No.1<br>SP No.3        |  |                                       |                                  | E<br>T<br>E                 | BRACING-<br>OP CHORD<br>OT CHORD          | Sheathe<br>Rigid cei        | d or 4-1<br>iling dire | 1-8 oc pu<br>ectly appli    | Irlins, excep<br>ed or 6-0-0 | ot end verticals.<br>oc bracing. |                                    |

WEBS

OTHERS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 5=4-10-0, 2=4-10-0, 6=4-10-0 Max Horz 2=80(LC 9) Max Uplift 5=-11(LC 9), 2=-17(LC 12), 6=-15(LC 12) Max Grav 5=36(LC 17), 2=162(LC 2), 6=257(LC 17)

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

# NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 5, 17 lb uplift at joint 2 and 15 lb uplift at joint 6.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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| Plate Offsets (X,Y) [2:0-2-11  | ,0-1-0], [2:0-1-0,0-6-11], [2:0-0-8,0-1-0],   | [3:0-3-4,0-1-4]                                   |   |                                  |                                    |                            |                            |                                    |                                    |
|--|---|---|---|----------------------------------|------------------------------------|----------------------------|----------------------------|------------------------------------|------------------------------------|
| LOADING         (psf)           ICLL (roof)         20.0           Snow (Pf/Pg)         11.6/15.0           ICDL         10.0           3CLL         0.0           3CDL         10.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014 | CSI.<br>TC 0.25<br>BC 0.11<br>WB 0.24<br>Matrix-R | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in (I<br>-0.01<br>-0.02<br>-0.00 | (loc) 1/0<br>2-4 >9<br>2-4 >9<br>6 | /defl<br>999<br>999<br>n/a | L/d<br>240<br>180<br>n/a   | PLATES<br>MT20<br>Weight: 24 lb    | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-           FOP CHORD         2x4 SP No.1           3OT CHORD         2x4 SP No.1           WEBS         2x4 SP No.3   |   | BR<br>TO<br>BO                                    | ACING-<br>P CHORD S<br>T CHORD F          | Sheathed o<br>Rigid ceiling      | or 4-11-8<br>ig directly           | 3 oc pur<br>y applie       | lins, excep<br>d or 10-0-0 | ot end verticals.<br>) oc bracing. |                                    |

OTHERS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 6=0-1-8 Max Horz 2=59(LC 12) Max Uplift 2=-14(LC 12), 6=-12(LC 12) Max Grav 2=260(LC 2), 6=172(LC 17)

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

# NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 2 and 12 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.



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2.5x6 ||

ł

1.5x4

# Plate Offsets (X,Y)-- [2:0-2-11,0-1-0], [2:0-1-0,0-6-11], [2:0-0-8,0-1-0], [3:0-3-4,0-1-4], [5:0-2-0,0-0-0]

|  | ,.                                       |  | ,                                     | ,.                                      | , |   |                             |                        |                             |                                 |                                 |                                 |
|--|--|--|---------------------------------------|---|---|---|-----------------------------|------------------------|-----------------------------|---------------------------------|---------------------------------|---------------------------------|
| LOADING (psf)<br>TCLL (roof)<br>Snow (Pf/Pg) 11.6/<br>TCDL<br>BCLL<br>BCDL | 20.0<br>/15.0<br>10.0<br>0.0 *<br>10.0   | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2018/TP | 2-0-0<br>1.15<br>1.15<br>YES<br>I2014 | <b>CSI.</b><br>TC<br>BC<br>WB<br>Matrix | 0.04<br>0.02<br>0.00<br>c-P             | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>0.00<br>-0.00<br>0.00 | (loc)<br>1<br>1<br>4   | l/defl<br>n/r<br>n/r<br>n/a | L/d<br>120<br>120<br>n/a        | PLATES<br>MT20<br>Weight: 10 lb | <b>GRIP</b> 244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD 2x4<br>BOT CHORD 2x4<br>WEBS 2x4<br>OTHERS 2x4        | SP No.1<br>SP No.1<br>SP No.3<br>SP No.3 |  |                                       |   | <b>В</b><br>Т<br>В                      | RACING-<br>OP CHORD<br>OT CHORD           | Sheathe<br>Rigid cei        | d or 1-1<br>iling dire | 1-8 oc pu<br>ectly appli    | urlins, excep<br>ied or 6-0-0 c | t end verticals.<br>oc bracing. |                                 |

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 4=1-11-8, 2=1-11-8 Max Horz 2=35(LC 9) Max Uplift 4=-8(LC 9), 2=-29(LC 12) Max Grav 4=57(LC 24), 2=133(LC 17)

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

# NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 4 and 29 lb uplift at joint 2.
- 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.



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-0-11-0

0-11-0

1-11-8

1-11-8

# 3x6 = 3x6 = 6 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00 |12 6.00

|  |   |  | 1-11-8   |                              |                        |                               |                                |                                 |                                    |
|--|---|--|--|------------------------------|------------------------|-------------------------------|--------------------------------|---------------------------------|------------------------------------|
| Plate Offsets (X,Y) [2:0-2-11,   | 0-1-0], [2:0-1-0,0-6-11], [2:0-0-8,0-1-0],  | [3:0-3-4,0-1-4], [5:0-2-0,0                              | -0-0]  |                              |                        |                               |                                |                                 |                                    |
| LOADING (psf)           TCLL (roof)         20.0           Snow (Pf/Pg)         11.6/15.0           TCDL         10.0           BCLL         0.0 *           BCDL         10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014 | <b>CSI.</b><br>TC 0.04<br>BC 0.02<br>WB 0.01<br>Matrix-R | <b>DEFL.</b><br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>-0.00<br>-0.00<br>0.00 | (loc)<br>2<br>2<br>6   | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a       | PLATES<br>MT20<br>Weight: 10 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-           TOP CHORD         2x4 SP No.1           BOT CHORD         2x4 SP No.1           WEBS         2x4 SP No.3           OTHERS         2x4 SP No.3                |   | <b>BR</b><br>TO<br>BO                                    | <b>ACING-</b><br>P CHORD<br>T CHORD              | Sheathe<br>Rigid cei         | d or 1-1<br>iling dire | l1-8 oc pi<br>ectly appl      | urlins, excep<br>ied or 10-0-0 | t end verticals.<br>oc bracing. |                                    |

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 6=0-1-8 Max Horz 2=26(LC 9) Max Uplift 2=-25(LC 12), 6=-1(LC 9) Max Grav 2=144(LC 17), 6=34(LC 24)

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

# NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 2 and 1 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.



Scale = 1.10 4

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818 Soundside Road Edenton, NC 27932



| <b> </b>   |   | <u>19-11-0</u>                                    | )   |                              |                         |                             |                          |                                  |                                 |  |
|--|---|---|---|------------------------------|-------------------------|-----------------------------|--------------------------|----------------------------------|---------------------------------|--|
| Plate Offsets (X,Y) [2:Edge,0-1-0], [2:0-2-8,Edge], [12:0-2-8,Edge], [12:Edge,0-1-0], [18:0-2-8,0-3-0] |   |   |   |                              |                         |                             |                          |                                  |                                 |  |
| LOADING (psf)<br>TCLL (roof) 20.0<br>Snow (Pf/Pg) 11.6/15.0<br>TCDL 10.0<br>BCLL 0.0 *<br>BCDL 10.0    | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IRC2018/TPI2014 | CSI.<br>TC 0.04<br>BC 0.02<br>WB 0.06<br>Matrix-S | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>-0.00<br>-0.00<br>0.00 | (loc)<br>12<br>13<br>12 | l/defl<br>n/r<br>n/r<br>n/a | L/d<br>120<br>120<br>n/a | PLATES<br>MT20<br>Weight: 105 lb | <b>GRIP</b> 244/190<br>FT = 20% |  |
| LUMBER-<br>TOP CHORD 2x4 SP No.1<br>BOT CHORD 2x4 SP No.1<br>OTHERS 2x4 SP No.3                        |   | BR/<br>TOI<br>BO                                  | ACING-<br>P CHORD S<br>T CHORD F          | Sheathed<br>Rigid ceilir     | or 6-0-0<br>ng direc    | 0 oc pur<br>tly appli       | ins.<br>ed or 10-0-0     | ) oc bracing.                    |                                 |  |

WEDGE Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. All bearings 19-11-0

ACTIONS. All bearings 19-11-0. (lb) - Max Horz 2=-94(LC 10)

Max Holz 2= 34(EC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12
 Max Grav All reactions 250 lb or less at joint(s) 2, 18, 19, 20, 21, 22, 17, 16, 15, 14, 12

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

# NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 1.5x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12.
- 13) 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.

![](_page_45_Picture_21.jpeg)

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![](_page_45_Picture_23.jpeg)

![](_page_46_Figure_0.jpeg)

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Edenton, NC 27932

April 9,2020

![](_page_47_Figure_0.jpeg)

25-11-0 25-11-0 Plate Offsets (X,Y)--[2:Edge,0-1-0], [2:0-2-8,Edge], [14:0-0-0,0-1-0], [14:0-2-8,Edge] LOADING (psf) SPACING-CSI. DEFL. PLATES GRIP 2-0-0 in (loc)l/defl I/d TCLL (roof) 20.0 Plate Grip DOL TC 0.06 Vert(LL) 0.00 120 244/190 1.15 14 n/r MT20 Snow (Pf/Pg) 11.6/15.0 BC Lumber DOL 1.15 0.04 Vert(CT) 0.00 15 n/r 120 TCDL 10.0 Rep Stress Incr YES WB 0.09 Horz(CT) 0.00 14 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 148 lb FT = 20%BCDL 10.0 LUMBER-BRACING-2x4 SP No.1 TOP CHORD Sheathed or 6-0-0 oc purlins.

BOT CHORD

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

# TOP CHORD

BOT CHORD 2x4 SP No.1 OTHERS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

- REACTIONS. All bearings 25-11-0.
  - (lb) Max Horz 2=-122(LC 10) Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14 Max Grav All reactions 250 lb or less at joint(s) 2, 21, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14

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

# NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=26ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 1.5x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 23, 24, 25, 26, 27. 20. 19. 18. 17. 16. 14.
- 13) 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.

![](_page_47_Picture_22.jpeg)

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![](_page_47_Picture_24.jpeg)

![](_page_48_Figure_0.jpeg)

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.

![](_page_48_Figure_10.jpeg)

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![](_page_49_Figure_0.jpeg)

| TCLL (roof)<br>Snow (Pf/Pg) 11.<br>TCDL<br>BCLL<br>BCDL | 20.0<br>.6/15.0<br>10.0<br>0.0 *<br>10.0 | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2018/TF | 2-0-0<br>1.15<br>1.15<br>YES<br>Pl2014 | CSI.<br>TC<br>BC<br>WB<br>Matri | 0.07<br>0.05<br>0.09<br><-S | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>-0.00<br>0.00<br>0.00 | (loc)<br>1<br>1<br>14  | l/defl<br>n/r<br>n/r<br>n/a | L/d<br>120<br>120<br>n/a | PLATES<br>MT20<br>Weight: 146 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|---|--|--|--|---------------------------------|-----------------------------|---|-----------------------------|------------------------|-----------------------------|--------------------------|----------------------------------|------------------------------------|
| LUMBER-<br>TOP CHORD 2x<br>BOT CHORD 2x<br>OTHERS 2x    | x4 SP No.1<br>x4 SP No.1<br>x4 SP No.3   |  |  |                                 | E<br>T<br>E                 | BRACING-<br>OP CHORD<br>OT CHORD          | Sheathe<br>Rigid cei        | d or 6-0<br>iling dire | -0 oc pur<br>ectly appl     | lins.<br>ed or 10-0-     | 0 oc bracing.                    |                                    |

WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

(lb) - Max Horz 2=121(LC 11) Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 23, 24, 25, 26, 19, 18, 17, 16, 15 Max Grav All reactions 250 lb or less at joint(s) 2, 20, 22, 23, 24, 25, 26, 19, 18, 17, 16, 15, 14

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

# NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=26ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 1.5x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 23, 24, 25, 26. 19. 18. 17. 16. 15.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 14.
- 14) 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.

![](_page_49_Figure_23.jpeg)

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REACTIONS. All bearings 25-11-0.

![](_page_50_Figure_0.jpeg)

![](_page_50_Picture_1.jpeg)

![](_page_50_Picture_2.jpeg)

4. GILD

![](_page_51_Figure_0.jpeg)

TOP CHORD

BOT CHORD

Sheathed or 6-0-0 oc purlins.

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

# LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 OTHERS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

- (lb) Max Horz 2=-45(LC 10)
  - Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8. 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.

THURTH CAA ORTH  $\cap$ Vermannen 1111111111 SEAL 036322 GI minin April 9,2020

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REACTIONS. All bearings 8-7-0.

![](_page_52_Figure_0.jpeg)

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

![](_page_52_Figure_8.jpeg)

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![](_page_53_Figure_0.jpeg)