

RE: J0720-3499 Weaver / 14 West Park / Harnett Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

| Customer:<br>Lot/Block: | Project Name: | J0720-3499 |
|-------------------------|---------------|------------|
| Address:                |               |            |
| City:                   |               |            |

Model: Subdivision: State:

# General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Wind Code: N/A Roof Load: N/A psf

Design Program: MiTek 20/20 8.3 Wind Speed: N/A mph Floor Load: 55.0 psf

This package includes 12 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal#     | Truss Name | Date     |
|-----|-----------|------------|----------|
| 1   | E14705820 | F1         | 8/6/2020 |
| 2   | E14705821 | F2         | 8/6/2020 |
| 3   | E14705822 | F3         | 8/6/2020 |
| 4   | E14705823 | F4         | 8/6/2020 |
| 5   | E14705824 | F4A        | 8/6/2020 |
| 6   | E14705825 | F5         | 8/6/2020 |
| 7   | E14705826 | F7         | 8/6/2020 |
| 8   | E14705827 | F7A        | 8/6/2020 |
| 9   | E14705828 | KW4        | 8/6/2020 |
| 10  | E14705829 | KW5        | 8/6/2020 |
| 11  | E14705830 | KW6        | 8/6/2020 |
| 12  | E14705831 | KW7        | 8/6/2020 |

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

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

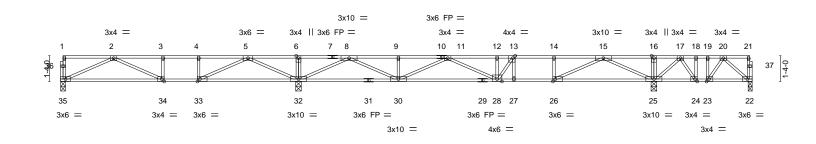
My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844

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



| Job                    | Truss             | Truss Type | Qty       | Ply            | Weaver / 14 West Park / Harnett                               |
|------------------------|-------------------|------------|-----------|----------------|---|
|                        |                   |            |           |                | E14705820   |
| J0720-3499             | F1                | Floor      | 3         | 1              |   |
|                        |                   |            |           |                | Job Reference (optional)                                      |
| Comtech, Inc, Fayettev | ille, NC - 28314, |            | 8         | .330 s Jul :   | 22 2020 MiTek Industries, Inc. Wed Aug 5 14:40:05 2020 Page 1 |
| -                      |                   | ID:6QM6    | oUdKO1jfj | INWahDSv       | tyxoet-VGTerwWYtDEwCCbPyn6GYfbJ0GXdC945pNLqWayqsze            |
| 0-1-8                  |                   |            |           |                | 0-9-0 0-9-0   |
|                        | 1-8-12            |            |           | <u>0-9-0</u> ⊢ | 1-11-8<br>Scale = 1:59.8                                      |



| l   | <u>12-4-4</u><br>12-4-4  |   | <u> </u>   |            |                          |                                  | <u>35-11-0</u>                            |  |
|---|--|---|--|------------|--------------------------|----------------------------------|---|--|
| Plate Offsets (X,Y)   | [13:0-1-8,Edge], [23:0-1-8,Edge], [24:0-1  | I-8,Edge], [26:0-1-8,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 IRC2015/TPI2014  | <b>CSI.</b><br>TC 0.88<br>BC 0.78<br>WB 0.74<br>Matrix-S  | DEFL.inVert(LL)-0.30Vert(CT)-0.39Horz(CT)0.03  |            | L/d<br>480<br>360<br>n/a | PLATES<br>MT20<br>Weight: 183 lb | <b>GRIP</b><br>244/190<br>FT = 20%F, 11%E |  |
| BOT CHORD 2x4 SP<br>22-29:  | TOP CHORD     2x4 SP No.1 (flat)     TOP CHORD     Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.       BOT CHORD     2x4 SP No.1 (flat) *Except*     except end verticals.       22-29: 2x4 SP 2400F 2.0E(flat)     BOT CHORD     Rigid ceiling directly applied or 6-0-0 oc bracing.  |   |  |            |                          |                                  |   |  |
| (lb) - Max U  | earings 0-3-8 except (jt=length) 35=0-3-0<br>plift All uplift 100 lb or less at joint(s) ex<br>rav All reactions 250 lb or less at joint(  | cept 22=-230(LC 6)  | C 3), 35=583(LC 5), 25=15  | 578(LC 11) |                          |                                  |   |  |
| TOP CHORD 2-3=-<br>9-11=<br>15-16<br>BOT CHORD 34-38<br>27-26<br>22-23<br>WEBS 6-32=<br>4-33<br>12-26<br>20-22  | Comp./Max. Ten All forces 250 (lb) or<br>1280/416, 3-4=-1280/416, 4-5=-1280/41<br>=-1609/0, 11-12=-2405/0, 12-13=-2405/0<br>3=0/1257, 16-17=0/1250, 17-18=-106/53<br>3=-781/102, 33-34=-416/1280, 32-33=-11<br>3=0/1943, 26-27=0/1943, 25-26=0/569, 2<br>3=-291/137<br>=-299/0, 16-25=-280/0, 2-35=-1098/87, 2<br>=-415/0, 8-32=-2177/0, 8-30=0/1554, 9-3<br>3=-413/0, 15-25=-1992/0, 15-26=0/1541,<br>2=-178/388, 13-27=-410/0, 17-25=-722/0<br>3=-445/0, 19-23=0/254 | 6, 5-6=0/2174, 6-8=0/21<br>, 13-14=-1943/0, 14-15=<br>9, 18-19=-106/539, 19-2(<br>101/519, 30-32=-274/291<br>4-25=-849/0, 23-24=-53<br>-34=-373/307, 5-32=-17(<br>30=-259/0, 11-30=-837/0<br>14-26=-445/0, 13-28=-3 | 74, 8-9=-1609/0,<br>-1943/0,<br>)=-106/539<br>, 28-30=0/2276,<br>9/106,<br>)0/0, 5-33=0/1243,<br>, 11-28=0/306,<br>/796, |            |                          |                                  |   |  |
| <ol> <li>All plates are 1.5x3</li> <li>Plates checked for a</li> <li>Provide mechanical</li> <li>Provide mechanical</li> <li>Recommend 2x6 str</li> </ol> | e loads have been considered for this de<br>MT20 unless otherwise indicated.<br>I plus or minus 1 degree rotation about it<br>connection (by others) of truss to bearin<br>connection (by others) of truss to bearin<br>ongbacks, on edge, spaced at 10-0-0 or<br>ttached to walls at their outer ends or res<br>rect truss backwards.   | s center.<br>g plate at joint(s) 22.<br>g plate capable of withsta<br>c and fastened to each tr   |  |            | Manual Marine            | THE A.                           | S22                                       |  |
| WARNING - Verify d  | esign parameters and READ NOTES ON THIS ANI  |   | CE PAGE MIL-7473 roy 5/19/2020   |            |                          | ENCINE                           | EDING BY                                  |  |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932

| Job           | Truss                 |       | Truss Type   |              | Qty      | Ply            | Weaver / 14 West F                      | Park / Harnett  |             | <b>E</b> 4.47          |               |
|---------------|-----------------------|-------|--------------|--------------|----------|----------------|---|-----------------|-------------|------------------------|---------------|
| J0720-3499    | F2                    |       | Floor Girder |              | 1        | 1              |   |                 |             | E147                   | 705821        |
|               |                       |       |              |              |          |                | Job Reference (opt                      | ional)          |             |                        |               |
| Comtech, Inc, | Fayetteville, NC - 28 | 314,  |              | I            |          |                | 22 2020 MiTek Indu<br>Svtyxoet-SfaOGbXo |                 |             |                        |               |
| 0-1-8         |                       |       |              |              |          |                |   |                 | 0-9-0 0     | )-9-0                  |               |
| 2-6-0         |                       | 2     |              |              |          | <u>0-9-0</u> ⊢ | 1-11-8                                  |                 | 1-3-0 0-5-1 | 2 1-3-00-1-<br>Scale = | 8<br>= 1:59.8 |
|               |                       |       |              |              |          |                |   |                 |             |                        |               |
|               |                       |       | 3x10 =       |              |          |                |   |                 |             |                        |               |
|               |                       |       |              | =P =         | 3x6 FP = |                |   |                 |             |                        |               |
| 3x4    4      | 4x6    3x6 =          | 3>    | <10 =        | 6x12 = 3x6 = | 3x4 =    | 4x4            | =                                       | 4x8 = 3x        | (4    4x4 = | 3x4 =                  |               |
| 1 38          | 2 39 3                | 4     | 5 6 7        | 8 40 9       | 10 11    | 12 13          | 14                                      | 15 1            | 16 17 18 19 | 9 20 21                |               |
|               |                       |       |              |              |          |                |   |                 |             |                        | 37 4-         |
| 35            | 34                    | 33    | 32           | 31 30        |          | 29 28 27       | 26                                      | 2               | 25 24 23    | 3 22                   |               |
| 3x6 =         | 3x4 =                 | 3x6 = | 4x12 =       | 3x6 FP =     |          | 4x6 =          | 4x6 =                                   | 3x <sup>-</sup> | 10 = 4x4 =  | 3x6 3                  | =             |

3x10 =

3x8 M18SHS FP =

| <b> </b>   | 12-4-4   |  | 9-12   | 35-11-0   |                          |   |  |
|--|--|--|--|---|--------------------------|---|--|
| Plate Offsets (X,Y)  | 12-4-4<br>[1:Edge,0-1-8], [3:0-1-8,Edge], [13:0-1-8  | 3,Edge], [23:0-1-8,Edge],  |  | -5-8<br>1-8,Edge], [33:0-1-                       | 8,Edge], [34:0           |   | 5-1-4  |
| 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 IRC2015/TPI2014   | CSI.<br>TC 0.94<br>BC 0.91<br>WB 0.95<br>Matrix-S  | DEFL.<br>Vert(LL) -0.3   | in (loc) l/defl<br>31 27-28 >723<br>41 27-28 >540 | L/d<br>480<br>360<br>n/a | PLATES<br>MT20<br>M18SHS<br>Weight: 198 lb      | <b>GRIP</b><br>244/190<br>244/190<br>FT = 20%F, 11%E |
| 1-7,10-<br>BOT CHORD 2x4 SP<br>22-29: 2  | No.1(flat) *Except*<br>21: 2x4 SP 2400F 2.0E(flat)<br>No.1(flat) *Except*<br>2x4 SP 2400F 2.0E(flat)<br>No.3(flat)   |  | BRACING-<br>TOP CHORD<br>BOT CHORD   | except end vert                                   | icals.                   | ectly applied or 6-0-0 c<br>r 6-0-0 oc bracing. | oc purlins,  |
| (lb) - Max U   | earings 0-3-8 except (jt=length) 35=0-3-0<br>plift All uplift 100 lb or less at joint(s) e<br>rav All reactions 250 lb or less at joint  | (cept 22=-260(LC 6)  | 5), 32=2556(LC 3), 25:   | =1660(LC 11)                                      |                          |   |  |
| TOP CHORD 2-3=-<br>9-11=<br>15-16<br>BOT CHORD 34-35<br>27-28<br>22-23<br>WEBS 6-32=<br>5-33=<br>20-23   | Comp./Max. Ten All forces 250 (lb) or<br>1101/389, 3-4=-1094/391, 4-5=-1094/39<br>2116/0, 11-12=-2684/0, 12-13=-2684/0<br>=0/1367, 16-17=0/1359, 17-18=-28/601<br>=0/1166, 33-34=-391/1094, 32-33=-144<br>3=0/2120, 26-27=0/2120, 25-26=0/571, 2<br>3=-324/92<br>267/0, 16-25=-295/0, 2-35=-1266/0, 2-<br>-0/1554, 4-33=-551/0, 20-22=-119/431,<br>3=-496/0, 19-23=0/298, 8-32=-3450/0, 8<br>3=-494/0, 15-25=-2110/0, 15-26=0/1722 | 11, 5-6=0/2880, 6-8=0/28<br>1, 13-14=-2120/0, 14-15=<br>, 18-19=-28/601, 19-20=<br>2/28, 30-32=0/685, 28-3(<br>24-25=-941/0, 23-24=-60<br>34=-783/0, 3-34=0/278, 5<br>17-25=-755/0, 17-24=0/6<br>-30=0/1655, 9-30=-350/0 | 50, 8-9=-2128/0,<br>-2120/0,<br>-28/601<br>0=0/2649,<br>1/28,<br>5-32=-2081/0,<br>86, 18-24=-404/0,<br>, 11-30=-656/0, |   |                          |   |  |
| <ol> <li>All plates are MT20 ;</li> <li>All plates are 1.5x3 M</li> <li>Plates checked for a</li> <li>Provide mechanical</li> <li>Provide mechanical</li> <li>Provide mechanical</li> <li>Recommend 2x6 str<br/>Strongbacks to be at</li> <li>CAUTION, Do not er</li> <li>Hanger(s) or other co<br/>down at 3-9-12, and<br/>device(s) is the response</li> </ol> | onnection device(s) shall be provided su<br>I 169 lb down at 14-2-12, and 550 lb do<br>onsibility of others.<br>:(S) section, loads applied to the face of   | s center.<br>g plate at joint(s) 22.<br>g plate capable of withsta<br>c and fastened to each tr<br>strained by other means.<br>Ifficient to support concer<br>wn at 15-9-8 on top chor                                   | uss with 3-10d (0.131"<br>htrated load(s) 169 lb d<br>rd. The design/selectio  | X 3") nails.<br>own at 1-9-12, 169                | e lb                     | SEA<br>0363                                     | EER.K  |

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

August 6,2020

3x4 =



| Job           |           | Truss             | Truss Type   | Qty | Ply        | Weaver / 14 West Park / Harnett                               |  |  |  |
|---------------|-----------|-------------------|--|-----|------------|---|--|--|--|
|               |           |                   |  |     |            | E14705821   |  |  |  |
| J0720-3499    |           | F2                | Floor Girder   | 1   | 1          |   |  |  |  |
|               |           |                   |  |     |            | Job Reference (optional)                                      |  |  |  |
| Comtech, Inc, | Fayettevi | ille, NC - 28314, |  | 8   | .330 s Jul | 22 2020 MiTek Industries, Inc. Wed Aug 5 14:40:07 2020 Page 2 |  |  |  |
|               |           |                   | ID:6QM6oUdKO1jfjlNWahDSvtyxoet-SfaOGbXoPqUeSVln4C8kd4gdd4A1g0LOHhqwbTyqszc |     |            |   |  |  |  |

# LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 22-35=-10, 1-21=-100

Concentrated Loads (lb)

Vert: 7=-89(F) 38=-89(F) 39=-89(F) 40=-470(F)



| Job                   | Truss   | Truss Type | Qty | Ply | Weaver / 14 West Park / Harnett |
|-----------------------|---|------------|-----|-----|---------------------------------|
|                       |   |            |     |     | E14705822                       |
| J0720-3499            | F3  | Floor      | 3 1 |     |                                 |
|                       |   |            |     |     | Job Reference (optional)        |
| Comtech, Inc, Fayette | Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Aug 5 14:40:11 2020 Page |            |     |     |                                 |

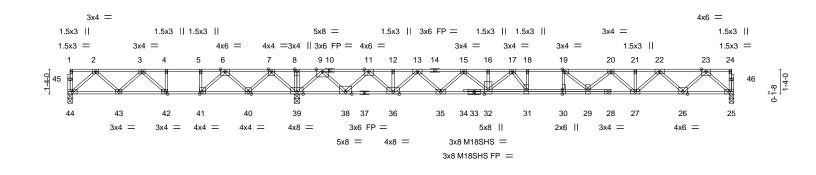
ID:6QM6oUdKO1jfjINWahDSvtyxoet-KQqv6zbJT3?3w73YJ1DgowrLUhYgcsJ\_CJo8kEyqszY

0-9-0 1-9-12

||<mark>1-3-0</mark>\_|

| 1-8-12 |  |  |  |
|--------|--|--|--|



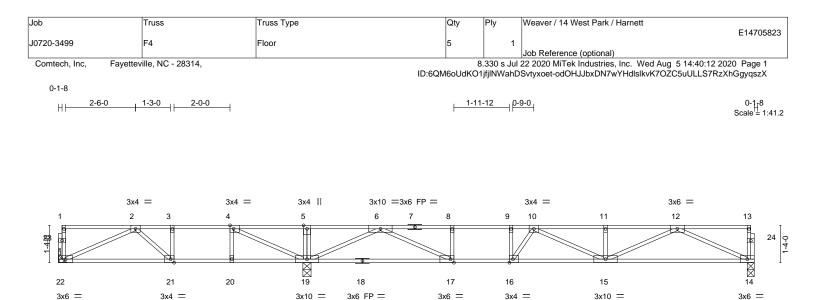


| I   | 12-4-4  | 1   |  | 35-11-0   |  | 1   |
|---|---|---|--|---|--|---|
|   | 12-4-4  | 1   |  | 23-6-12   |  |   |
| Plate Offsets (X,Y)-  | - [19:0-1-8,Edge], [30:0-3-0,0-0-0], [41:0-   | 1-8,Edge], [42:0-1-8,Edge   | ]  |   |  |   |
| LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0 | SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014   | <b>CSI.</b><br>TC 0.82<br>BC 0.93<br>WB 0.82<br>Matrix-S  | DEFL.         in           Vert(LL)         -0.41           Vert(CT)         -0.55           Horz(CT)         0.05 | (loc) l/defl L/d<br>31 >692 480<br>31 >512 360<br>25 n/a n/a                        | PLATES<br>MT20<br>M18SHS<br>Weight: 198 lb | <b>GRIP</b><br>244/190<br>244/190<br>FT = 20%F, 11% |
| 1-10<br>BOT CHORD 2x4   | 2 SP No.1(flat) *Except*<br>0: 2x4 SP 2400F 2.0E(flat)<br>4 SP No.1(flat)<br>4 SP No.3(flat)  |   | BRACING-<br>TOP CHORD<br>BOT CHORD   | Structural wood sheathing<br>except end verticals.<br>Rigid ceiling directly applie |  | ł oc purlins,                                       |
| Ma<br>Ma<br>FORCES. (Ib) - M<br>TOP CHORD 2-<br>7-<br>7-  | (size) 44=0-3-0, 39=0-3-8, 25=0-3-0<br>IX Uplift 44=-154(LC 4)<br>IX Grav 44=534(LC 3), 39=2521(LC 1), 25=<br>Iax. Comp./Max. Ten All forces 250 (lb) or<br>-3=-845/383, 3-4=-1008/1235, 4-5=-1008/12<br>-8=0/3728, 8-9=0/3728, 9-11=0/886, 11-12=<br>5-16=-4419/0, 16-17=-4419/0, 17-18=-4874.   | less except when shown.<br>25, 5-6=-1008/1235, 6-7=<br>-1666/0, 12-13=-1666/0, 1  | 3-15=-3204/0,  |   |  |   |
| 20<br>BOT CHORD 43<br>38<br>WEBS 2-<br>9-<br>1<br>22  | 0-21=-3531/0, 21-22=-3531/0, 22-23=-2079,<br>3-44=-191/560, 42-43=-671/1075, 41-42=-1,<br>8-39=-2123/0, 36-38=-214/645, 35-36=0/25<br>0-31=0/4874, 29-30=0/4874, 27-29=0/4135,<br>-44=-743/256, 7-39=-1463/0, 2-43=-266/397<br>-40=-1113/0, 3-42=-825/0, 6-41=0/1269, 4-4<br>-38=0/1720, 11-38=-1700/0, 11-36=0/1415,<br>5-32=0/707, 17-32=-646/0, 23-25=-1609/0,<br>2-27=0/849, 20-27=-821/0, 20-29=0/542, 19<br>7-31=-115/599 | /0<br>235/1008, 40-41=-1907/58<br>72, 32-35=0/3901, 31-32=<br>26-27=0/2906, 25-26=0/1<br>7, 7-40=0/1037, 3-43=-319<br>12=0/369, 5-41=-619/0, 9-5<br>13-36=-1262/0, 13-35=0/5<br>23-26=0/1208, 22-26=-11 | 87, 39-40=-2815/0,<br>0/4751,<br>210<br>/400,<br>39=-2137/0,<br>308, 15-35=-988/0,<br>51/0,                        |   |  | 110111  |
| <b>NOTES-</b><br>1) Unbalanced floor<br>2) All plates are MT  | r live loads have been considered for this de<br>20 plates unless otherwise indicated.<br>6 MT20 unless otherwise indicated.  | esign.  |  | 4   | CHARTH CA                                  | ROLL  |

- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 44.
- 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.







|   | 8-10-8<br>8-10-8   |  |                                    |  | 24-10-4<br>I5-11-12           |                          |                                  |   |
|---|--|--|------------------------------------|--|-------------------------------|--------------------------|----------------------------------|---|
| Plate Offsets (X,Y)   | - [4:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1   | -8,Edge], [21:0-1-8,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 IRC2015/TPI2014  | CSI.<br>TC 0.63<br>BC 0.89<br>WB 0.63<br>Matrix-S  | Vert(CT) -0                        | in (loc)<br>.27 15-16<br>.36 15-16<br>.05 14 | l/defl<br>>704<br>>531<br>n/a | L/d<br>480<br>360<br>n/a | PLATES<br>MT20<br>Weight: 124 lb | <b>GRIP</b><br>244/190<br>FT = 20%F, 11%E |
| 7-1<br>BOT CHORD 2x2<br>WEBS 2x2<br>REACTIONS.  | SP No.1(flat) *Except*<br>3: 2x4 SP 2400F 2.0E(flat)<br>SP No.1(flat)<br>SP No.3(flat)<br>size) 22=Mechanical, 19=0-3-8, 14=0-3-<br>x Grav 22=465(LC 3), 19=1431(LC 1), 14=  |  | BRACING-<br>TOP CHORD<br>BOT CHORD | except                                       | end vertic                    | als.                     | ectly applied or 6-0-0 o         | oc purlins,                               |
| TOP CHORD 2<br>9<br>BOT CHORD 2<br>1<br>WEBS 5  | ax. Comp./Max. Ten All forces 250 (lb) of<br>3=-792/0, 3-4=-792/0, 4-5=0/494, 5-6=0/49<br>10=-2584/0, 10-11=-2527/0, 11-12=-2527/<br>-22=0/741, 20-21=0/792, 19-20=0/792, 17<br>I-15=0/1591<br>19=-278/0, 2-22=-810/0, 4-19=-1028/0, 6-1<br>2-14=-1745/0, 12-15=0/1035, 10-15=-311/0 | 94, 6-8=-2584/0, 8-9=-2584/0<br>0<br>-19=0/1472, 16-17=0/2584,<br>9=-1803/0, 6-17=0/1333, 8- | 15-16=0/2776,<br>17=-449/0,        |  |                               |                          |                                  |   |

## NOTES-

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

2) All plates are 1.5x3 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

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

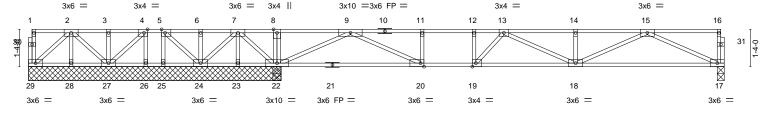
For the girle (a) state of the second state of the se

6) CAUTION, Do not erect truss backwards.





| Job                         | Truss              | Truss Type | Qty         | Ply       | Weaver / 14 West Park / Harnett  | F1 4705004                    |
|-----------------------------|--------------------|------------|-------------|-----------|--|-------------------------------|
| J0720-3499                  | F4A                | Floor      | 1           | 1         | Job Reference (optional)   | E14705824                     |
| Comtech, Inc, Fayette       | ville, NC - 28314, | •          |             |           | 22 2020 MiTek Industries, Inc. Wed Aug 5 14:4<br>Svtyxoet-k?V2k?dBI_Nenan7_AmNQYTqkuZGpE |                               |
| 0-1-8                       |                    |            |             |           |  |                               |
| H <b>⊢</b> <del>1-2-8</del> | 0-6-0              | 2-6-0 2    | -6-0   1-8- | 12    1-0 | -0 2-6-0 2-6-0   | 2-6-0 0-1-8<br>Scale = 1:41.2 |
|                             |                    |            |             |           |  |                               |
|                             |                    |            |             |           |  |                               |
|                             |                    |            |             |           |  |                               |
|                             | 3x4 =              |            |             |           |  |                               |



| L  | 5-2-0                                      | 6-1-0       | 8-10-8         | 9-0 <sub>1</sub> 4 |            |  |         |       | 24-10-4      |            |                |                 |
|--|--|-------------|----------------|--------------------|------------|--|---------|-------|--------------|------------|----------------|-----------------|
|  | 5-2-0                                      | 0-11-0      | 2-9-8          | 0-1-12             |            |  |         |       | 15-10-0      |            |                | I               |
| Plate Offsets (X,Y)  | [4:0-1-8,Edge], [                          | 5:0-1-8,Edg | je], [19:0-1-8 | ,Edge], [20:0-1-   | 8,Edge]    |  |         |       |              |            |                |                 |
| LOADING (psf)  | SPACING                                    |             | 2-0-0          | CSI.               |            | DEFL.  |         | (loc) | l/defl       | L/d        | PLATES         | GRIP            |
| TCLL 40.0<br>TCDL 10.0                                     | Plate Grip<br>Lumber D                     |             | 1.00<br>1.00   | TC 0.9<br>BC 0.9   |            | Vert(LL)<br>Vert(CT)   | -0.29 · |       | >660<br>>490 | 480<br>360 | MT20           | 244/190         |
| BCLL 0.0   | Rep Stres                                  |             | YES            | WB 0.6             | 69         | Horz(CT)   | 0.03    | 17    | n/a          | n/a        |                |                 |
| BCDL 5.0   | Code IRC                                   | 2015/TPI2   | 014            | Matrix-S           |            |  |         |       |              |            | Weight: 134 lb | FT = 20%F, 11%E |
| LUMBER-  |  |             |                |                    |            | BRACING-   |         |       |              |            |                |                 |
| TOP CHORD 2x4 SP No.1(flat)<br>BOT CHORD 2x4 SP No.1(flat) |  |             |                |                    |            | TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins,<br>except end verticals. |         |       |              |            |                | oc purlins,     |
| WEBS 2x4 SP No.3(flat)                                     |  |             |                |                    |            | BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.                                      |         |       |              |            |                |                 |
|  | bearings 9-0-4 exc<br>Uplift All uplift 10 |             |                |                    | 6(LC 4), 2 | 24=-135(LC 4)  |         |       |              |            |                |                 |

Max Grav All reactions 250 lb or less at joint(s) 29 28, 27, 26, 23, 24, 25 except 22=1537(LC 1), 22=1537(LC 1), 17=782(LC 4)

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

- TOP CHORD 7-8=0/1020, 8-9=0/1026, 9-11=-1995/0, 11-12=-1995/0, 12-13=-1995/0, 13-14=-2224/0, 14-15=-2224/0
- BOT CHORD
   23-24=-492/0, 22-23=-492/0, 20-22=0/691, 19-20=0/1995, 18-19=0/2318, 17-18=0/1441

   WEBS
   8-22=-266/0, 7-22=-713/0, 7-24=0/423, 15-17=-1580/0, 15-18=0/866, 9-22=-1894/0, 9-20=0/1444, 11-20=-466/0, 13-19=-555/0, 12-19=-9/291

#### NOTES-

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

2) All plates are 1.5x3 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25 except (jt=lb) 23=186, 24=135.

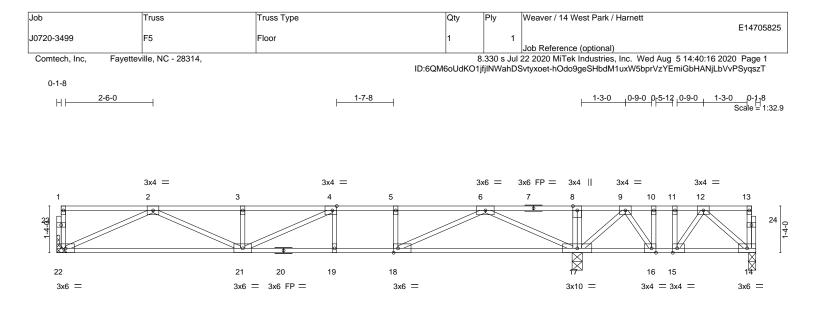
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.







|   |   | 14-10-0   |                                    |  |                               | 15-0-0                   | 19-11-12   |   |
|---|---|---|------------------------------------|--|-------------------------------|--------------------------|--|---|
|   |   | 14-10-8   |                                    |  |                               | 0-1-8                    | 4-11-12  |   |
| Plate Offsets (X,Y)   | [4:0-1-8,Edge], [15:0-1-8,Edge], [16:0-1  | 8,Edge], [18:0-1-8,Edge]                          |                                    |  |                               |                          |  |   |
| 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 IRC2015/TPI2014                     | CSI.<br>TC 0.66<br>BC 0.88<br>WB 0.57<br>Matrix-S | Vert(CT) -0                        | in (loc)<br>.22 19-21<br>.29 19-21<br>.03 17 | l/defl<br>>799<br>>612<br>n/a | L/d<br>480<br>360<br>n/a | PLATES<br>MT20<br>Weight: 105 lb                 | <b>GRIP</b><br>244/190<br>FT = 20%F, 11%E |
| 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 | except                                       | end verti                     | cals.                    | ectly applied or 6-0-0 o<br>or 6-0-0 oc bracing. | oc purlins,                               |
| Max   | ze) 22=Mechanical, 17=0-3-8, 14=0-2-{<br>Jplift 14=-106(LC 3)<br>Grav 22=742(LC 3), 17=1336(LC 1), 14=                      |   |                                    |  |                               |                          |  |   |
| TOP CHORD 2-3=  | . Comp./Max. Ten All forces 250 (lb) or<br>2078/0, 3-4=-2078/0, 4-5=-1931/0, 5-6=<br>)=-150/287, 10-11=-150/287, 11-12=-150 | -1931/0, 6-8=0/819, 8-9=0/8                       | 313,                               |  |                               |                          |  |   |
| BOT CHORD 21-2  | 22=0/1346, 19-21=0/1931, 18-19=0/1931,<br>6=-287/150  |   | 47,                                |  |                               |                          |  |   |
| WEBS 8-17   | /=-265/0, 9-17=-550/0, 12-15=-264/0, 9-1<br>]=0/1207, 5-18=-364/0, 2-22=-1475/0, 2-2  |   | ,                                  |  |                               |                          |  |   |

#### NOTES-

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

2) All plates are 1.5x3 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

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

5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=106.

14-10-8

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.

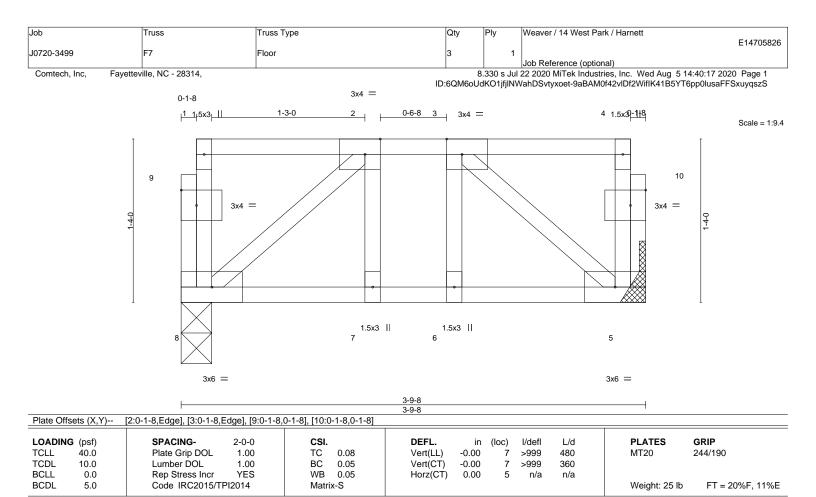
8) CAUTION, Do not erect truss backwards.



15-0-0

19-11-12





BRACING-

TOP CHORD

BOT CHORD

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

LUMBER-

WEBS

NOTES-

TOP CHORD

BOT CHORD

REACTIONS.

2x4 SP No.1(flat)

2x4 SP No.1(flat)

2x4 SP No.3(flat)

(size) 8=0-3-0, 5=Mechanical Max Grav 8=189(LC 1), 5=189(LC 1)

Unbalanced floor live loads have been considered for this design.
 Plates checked for a plus or minus 1 degree rotation about its center.

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

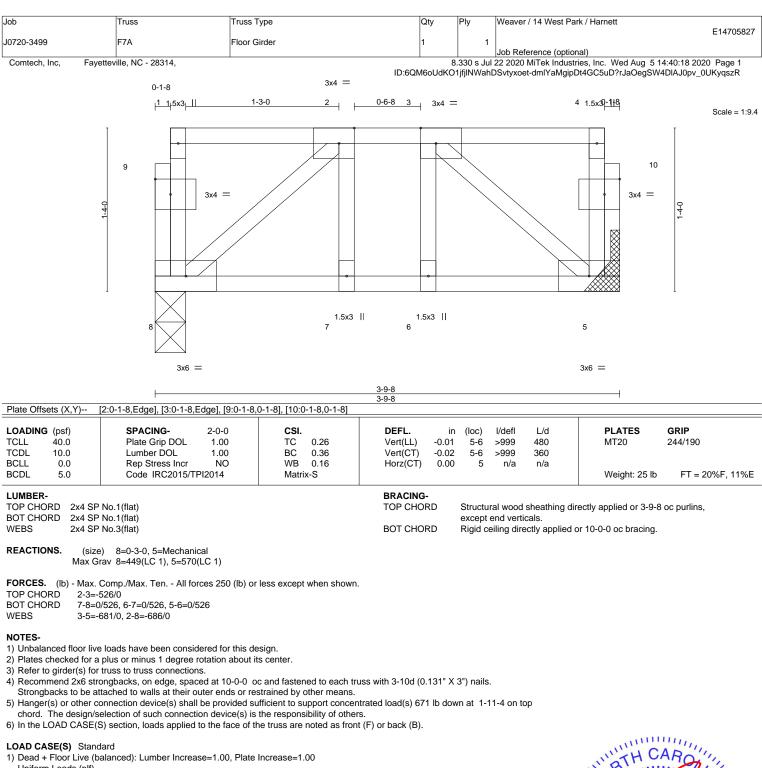


Structural wood sheathing directly applied or 3-9-8 oc purlins,

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

except end verticals.





Uniform Loads (plf) Vert: 5-8=-10, 1-4=-100

Concentrated Loads (lb)

Vert: 3=-642(F)



818 Soundside Road Edenton, NC 27932

| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   |
|---|
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  |
| 0 + 18 $3x6 FP = -$ $12 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 23 - 44$ $44 - 42 - 41 - 40 - 39 - 38 - 37 - 36 - 35 - 34 - 33 - 32 - 31 - 30 - 29 - 28 - 27 - 26 - 25 - 24 - 23 - 44$  |
| $3x6 FP = 12 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 \\ 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 4 23 4 23 4 23 4 23 4 23 4 23 $  |
| 12       3       4       5       6       7       8       9       10       11       12       13       14       15       16       17       18       19       20       21       22         4       1       1       1       12       13       14       15       16       17       18       19       20       21       22         4       1       1       1       1       12       13       14       15       16       17       18       19       20       21       22         4       1       1       1       1       12       13       14       15       16       17       18       19       20       21       22         4       1       1       1       1       12       13       14       15       16       17       18       19       20       21       22         4       1 |
| 12       3       4       5       6       7       8       9       10       11       12       13       14       15       16       17       18       19       20       21       22         4       1       1       1       12       13       14       15       16       17       18       19       20       21       22         4       1       1       1       1       12       13       14       15       16       17       18       19       20       21       22         4       1       1       1       1       12       13       14       15       16       17       18       19       20       21       22         4       1       1       1       1       12       13       14       15       16       17       18       19       20       21       22         4       1 |
| 12       3       4       5       6       7       8       9       10       11       12       13       14       15       16       17       18       19       20       21       22         4       1       1       1       12       13       14       15       16       17       18       19       20       21       22         4       1       1       1       1       12       13       14       15       16       17       18       19       20       21       22         4       1       1       1       1       12       13       14       15       16       17       18       19       20       21       22         4       1       1       1       1       12       13       14       15       16       17       18       19       20       21       22         4       1 |
| 12       3       4       5       6       7       8       9       10       11       12       13       14       15       16       17       18       19       20       21       22         4       1       1       1       12       13       14       15       16       17       18       19       20       21       22         4       1       1       1       1       12       13       14       15       16       17       18       19       20       21       22         4       1       1       1       1       12       13       14       15       16       17       18       19       20       21       22         4       1       1       1       1       12       13       14       15       16       17       18       19       20       21       22         4       1 |
| 44<br>44<br>42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
| 0+5-2 1-9-2   3-1-2   4-5-2   5-9-2   7-1-2   8-5-2   9-9-2   11-1-2   12-5-2   13-9-2   15-1-2   16-5-2   17-9-2   19-1-2   20-5-2   21-9-2   23-1-2   24-5-2 24 <sub>7</sub> 10 <sub>1</sub> 4  |
| 0+5-2 1-9-2 3-1-2 4-5-2 5-9-2 7-1-2 8-5-2 9-9-2 11-1-2 12-5-2 13-9-2 15-1-2 16-5-2 17-9-2 19-1-2 20-5-2 21-9-2 23-1-2 24-5-2 24-10-4<br>  |
| LOADING (psf)SPACING-<br>Plate Grip DOL2-0-0CSI.DEFL.in (loc)l/deflL/dPLATESGRIPTCLL40.0Plate Grip DOL1.00TC0.06Vert(LL)n/a-n/a999MT20244/190   |
| 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         23         n/a         n/a           BCDL         5.0         Code IRC2015/TPI2014         Matrix-R         Weight: 110 lb         FT = 20%F, 11%E  |

# LUMBER-

TOP CHORD2x4 SP No.1(flat)BOT CHORD2x4 SP No.1(flat)WEBS2x4 SP No.3(flat)OTHERS2x4 SP No.3(flat)

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. All bearings 24-10-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 23, 32, 33, 35, 36, 37, 38, 39, 40, 41, 31, 30, 29, 28, 27, 26, 25, 24

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

## NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Gable requires continuous bottom chord bearing.

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

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

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.



| Job                                  | Truss              | Т              | russ Type               |                | Qty            | Ply            | Weaver / 14 Wes            | t Park / Harnett                | E14705829          |
|--------------------------------------|--------------------|----------------|-------------------------|----------------|----------------|----------------|----------------------------|---------------------------------|--------------------|
| J0720-3499                           | KW5                | G              | ABLE                    |                | 1              | 1              | Job Reference (o           | notional)                       | L14703023          |
| Comtech, Inc, Fay                    | etteville, NC - 28 | 314,           |                         |                |                |                | I 22 2020 MiTek Ind        | dustries, Inc. Wed Aug 5        |                    |
|                                      |                    |                |                         |                | ID:6QM6c       | UdKO1jfjlNW    | /ahDSvtyxoet-1LQh          | nCOia68Ff7fqTu8P1C1GF           |                    |
| 0-1 <sub>1</sub> 8                   |                    |                |                         |                |                |                |                            |                                 | 0-1 <sub>1</sub> 8 |
|                                      |                    |                |                         |                |                |                |                            |                                 | Scale = 1:33.2     |
|                                      |                    |                |                         |                |                |                |                            |                                 |                    |
|                                      |                    |                |                         |                |                |                |                            |                                 |                    |
|                                      |                    |                |                         |                |                |                | 3x6 FP =                   |                                 |                    |
| 1 2 3                                | 3 4                | 5 6            | 6 7                     | 8              | 9 10           | 11             | 12 13 1                    | 14 15 16                        | 6 17 18            |
| 4<br>4<br>3<br>2<br>1<br>0<br>0<br>0 | 0                  | 0              |                         | 0              |                | 0              |                            |                                 |                    |
|                                      |                    |                |                         | ~~~~~          | ~~~~~          | ~~~~~          |                            |                                 |                    |
|                                      | 34 33              | 32 3           | 31 30 29                | 28             | 27 26          | 25             | 24 2                       | 23 22 21                        |                    |
| 3x4 =                                |                    |                | 3x6 FP =                |                |                |                |                            |                                 | 3x4 =              |
|                                      |                    |                |                         |                |                |                |                            |                                 |                    |
|                                      |                    |                |                         |                |                |                |                            |                                 |                    |
|                                      |                    |                |                         |                |                |                |                            |                                 |                    |
| Q-7-14, 1-11-14                      | 3-3-14             | 4-7-14 5-11-14 | , 7-3-14 <sub>1</sub> 8 | 8-7-14 9-11-14 | , 11-3-14 , 12 | -7-14 13-      | 11-14 <sub>1</sub> 15-3-14 | , 16-7-14 <sub>1</sub> 17-11-14 | 19-3-14 19-11-12   |
| 0-7-14 1-4-0                         |                    | 1-4-0 1-4-0    | 1-4-0                   | 1-4-0 1-4-0    |                |                | -4-0 1-4-0                 | 1-4-0 1-4-0                     | 1-4-0 0-7-14       |
| LOADING (psf)                        | SPACIN             |                | CSI                     |                | DEFL.          | in (loc)       | l/defl L/d                 | PLATES                          | GRIP               |
| TCLL 40.0                            | Plate Gri          |                | TC                      | 0.06           | Vert(LL)       | n/a -<br>n/a - | n/a 999<br>n/a 999         | MT20                            | 244/190            |

| TCLL 40.0<br>TCDL 10.0 | Plate Grip DOL 1.00<br>Lumber DOL 1.00      | TC 0.06<br>BC 0.01  | Vert(LL) n/a<br>Vert(CT) n/a | a - n/a 999<br>a - n/a 999 | MT20          | 244/190         |  |  |  |
|------------------------|---|---------------------|------------------------------|----------------------------|---------------|-----------------|--|--|--|
| BCLL 0.0<br>BCDL 5.0   | Rep Stress Incr YES<br>Code IRC2015/TPI2014 | WB 0.03<br>Matrix-R | Horz(CT) 0.00                | ) 19 n/a n/a               | Weight: 89 lb | FT = 20%F, 11%E |  |  |  |
| BOT CHORD 2x4 SP       | No.1(flat)<br>No.1(flat)                    |                     | BRACING-<br>TOP CHORD        |                            |               |                 |  |  |  |

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

BOT CHORD

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

REACTIONS. All bearings 19-11-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 19, 27, 28, 29, 31, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21, 20

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

# NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Plates checked for a plus or minus 1 degree rotation about its center.

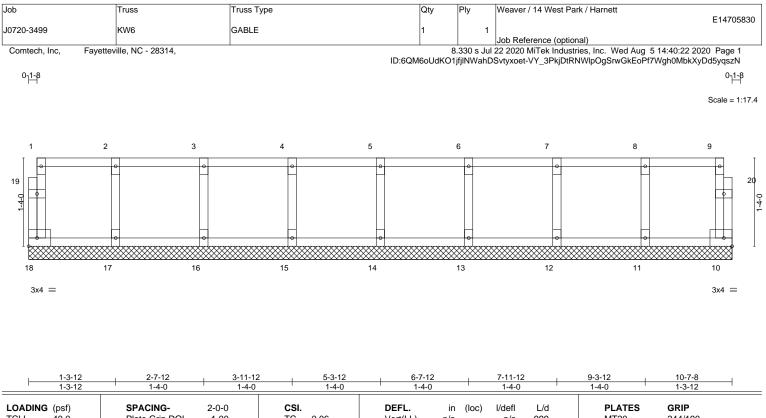
3) Gable requires continuous bottom chord bearing.

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

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

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.





| TCDL 10<br>BCLL 0 | osf)<br>0.0<br>0.0<br>0.0<br>5.0 | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2015/TF | 2-0-0<br>1.00<br>1.00<br>YES<br>Pl2014 | CSI.<br>TC<br>BC<br>WB<br>Matri | 0.06<br>0.01<br>0.03<br>x-R | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>10 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 48 lb | <b>GRIP</b><br>244/190<br>FT = 20%F, 11%E |
|-------------------|----------------------------------|--|--|---------------------------------|-----------------------------|---|--------------------------|-----------------------|-----------------------------|--------------------------|---------------------------------|---|
| LUMBER-           |                                  |  |  |                                 |                             | BRACING-                                  |                          |                       |                             |                          |                                 |   |

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

TOP CHORD BOT CHORD

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

REACTIONS. All bearings 10-7-8.

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

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

## NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Gable requires continuous bottom chord bearing.

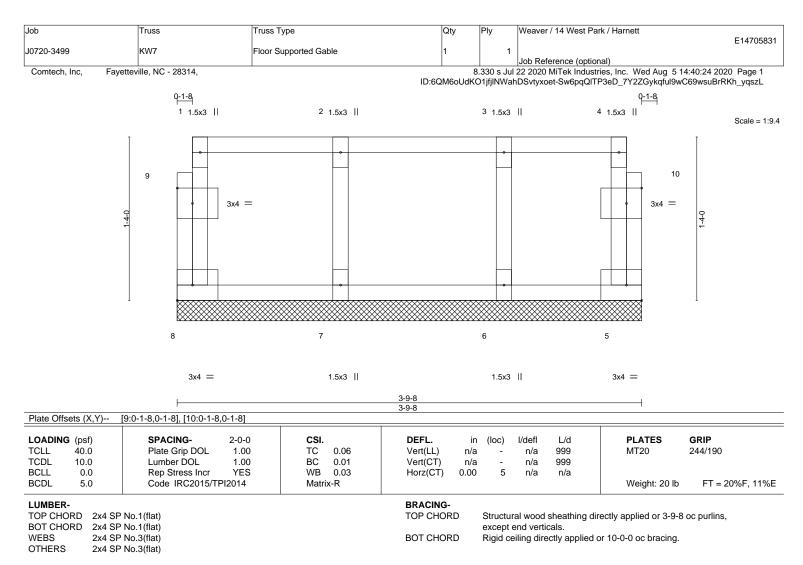
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

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

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.







REACTIONS. All bearings 3-9-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

# NOTES-

1) Plates checked for a plus or minus 1 degree rotation about its center.

2) Gable requires continuous bottom chord bearing.

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

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

 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.





