

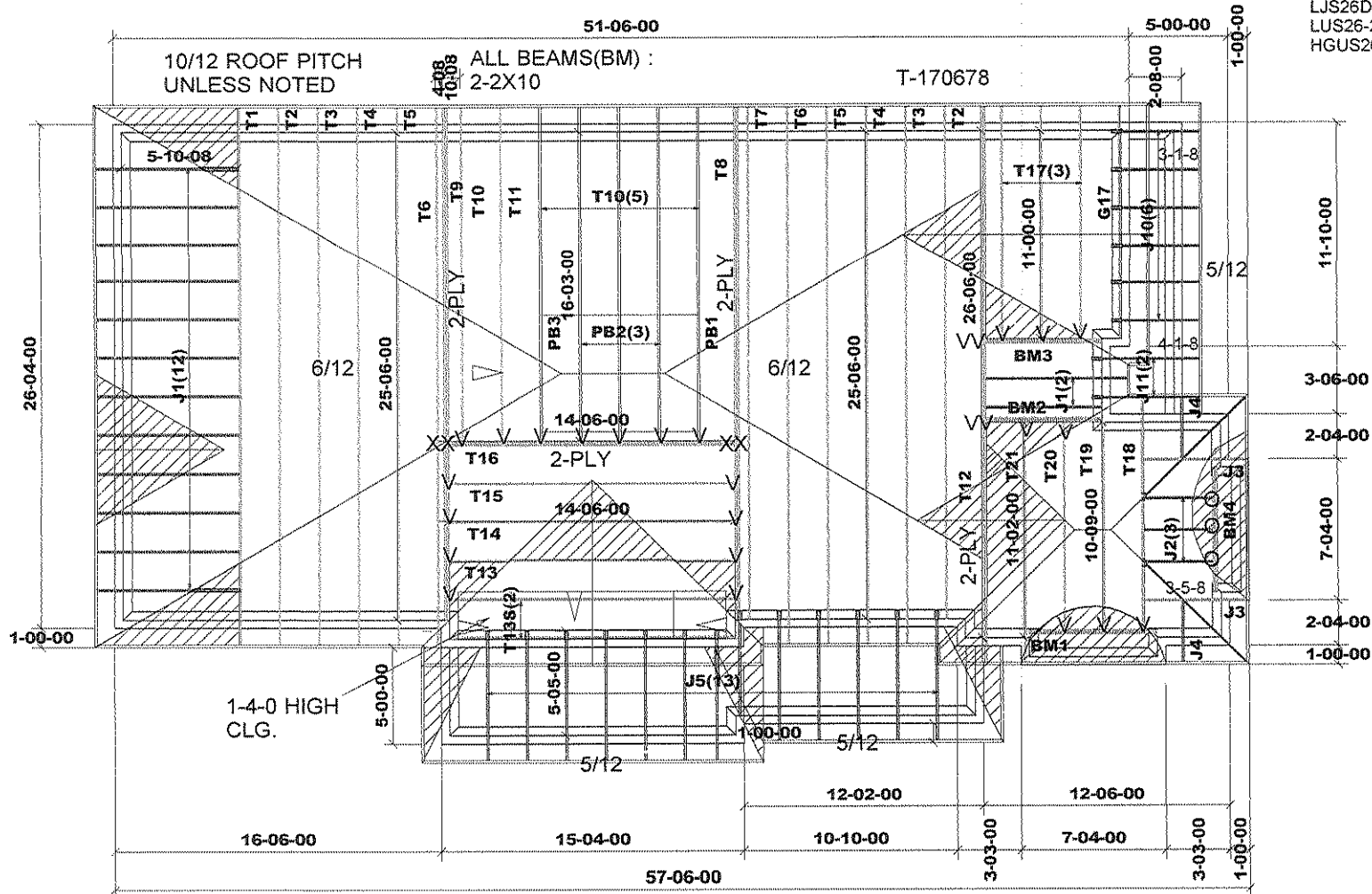
ALL CONVENTIONAL ROOF FRAMING TO CONFORM TO PART 9 OF THE O.B.C. LATEST EDITION  
 ROOF RAFTERS THAT MEET OR CROSS OVER TRUSSES ARE TO BE 2"x4"SPF@24"o.c. WITH A  
 2"x4"SPF VERTICAL POST TO THE TRUSS UNDER AT EACH CROSS POINT. POSTS LONGER THAN  
 6' TO BE Laterally Braced so that the distance between end points and between  
 rows of bracing does not exceed 6'.  
 DESIGN CONFORMS WITH THE RELEVANT SECTION OF THE LATEST EDITION OF O.B.C. PART 9

12" FINISH O.H  
 R.T.M.C  
 2X6 EXTERIOR WALLS  
 ASPHALT SHINGLES  
 2X6 FASCIA BOARD

DESIGN LOADS:  
 GROUND SNOW LOAD  
 $S_s = 2.6 \text{ kPa}$   
 TC DEAD 3 PSF  
 BC LIVE 10.5 PSF  
 BC DEAD 7 PSF

DENOTES  
 CONVENTIONAL  
 FRAMING

HARDWARE  
 LUS24(O)  
 LJS26DS(V)  
 LUS26-2(VV)  
 HGUS26-2(XX)



Town of Innisfil Certified Model  
 15/02/2018 2:30:06 PM kgervais

M11,018



Job Track: **42067**  
 Layout ID: **272497**  
 Plan Log: **87565**

Builder / Location:

**BAYVIEW WELLINGTON / INNISFIL**

Project: **ALCONA SHORES**

Date: 9/11/2017 Designer: JG

Model / Elevation:

**S32-10C-15 / A**

THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

Mitek ver 7.5.0

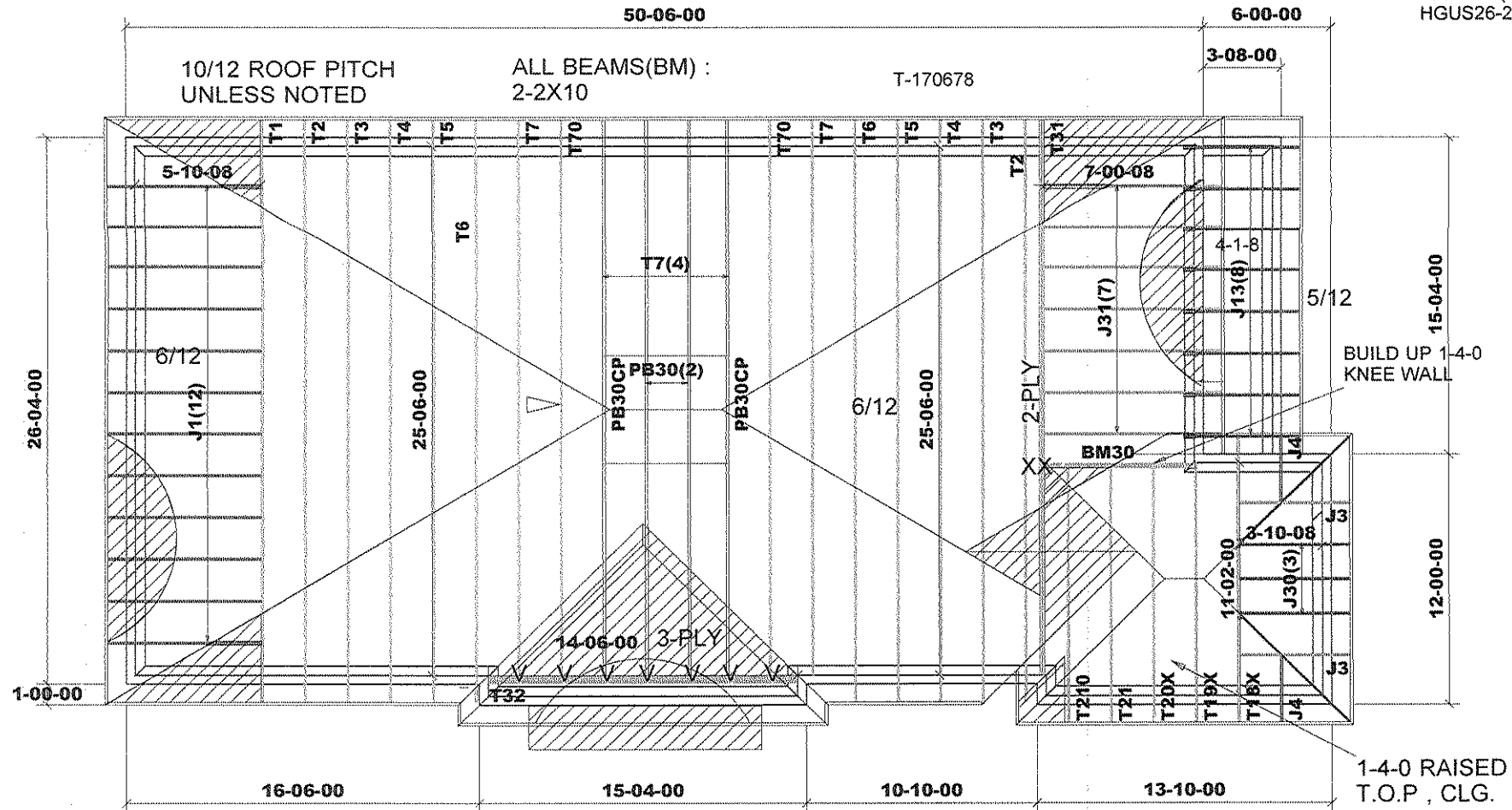
ALL CONVENTIONAL ROOF FRAMING TO CONFORM TO PART9 OF THE OBC.LATEST EDITION  
 ROOF RAFTERS THAT MEET OR CROSS OVER TRUSSES ARE TO BE 2"X4"SPF@24"o.c. WITH A  
 2"X4"SPF VERTICAL POST TO THE TRUSS UNDER AT EACH CROSS POINT. POSTS LONGER THAN  
 6' TO BE Laterally BRACED SO THAT THE DISTANCE BETWEEN END POINTS AND BETWEEN  
 ROWS OF BRACING DOES NOT EXCEED 6'.  
 DESIGN CONFORMS WITH THE RELEVANT SECTION OF THE LATEST EDITION OF O.B.C. PART.9

12" FINISH O.H  
 R.T.M.C  
 2X6 EXTERIOR WALLS  
 ASPHALT SHINGLES  
 2X6 FASCIA BOARD

DESIGN LOADS:  
 GROUND SNOW LOAD  
 Ss= 2.6 kPa  
 TC DEAD 3 PSF  
 BC LIVE 10.5 PSF  
 BC DEAD 7 PSF

DENOTES  
 CONVENTIONAL  
 FRAMING

HARDWARE  
 LJS26DS(V)  
 HGUS26-2(XX)



Town of Innisfil Certified Model  
 15/02/2018 2:30:08 PM kgervais

m11,018

Job Track: **42067**  
 Layout ID: **272498**  
 Plan Log: **87565**

Builder / Location:

**BAYVIEW WELLINGTON / INNISFIL**

Model / Elevation:

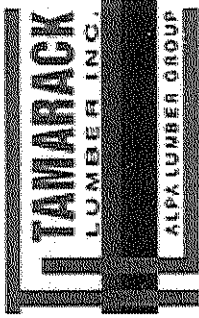
**S32-10C-15 / B**

Project: **ALCONA SHORES**

Date: 9/11/2017 Designer: JG

THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

Mitek ver 7.5.0



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 09/11/17 |
| SALES REP | Mario    |

|                                        |                   |                    |
|----------------------------------------|-------------------|--------------------|
| JOB TRACK: 42067                       | LAYOUT ID: 272497 | LOCATION: INNISFIL |
| BUILDER: BAYVIEW WELLINGTON/ALCONA SHO | SUB-BUILDER:      |                    |
| MODEL: S32-10C-15                      | ELEVATION: A      |                    |

### ROOF TRUSSES

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

| PROFILE | QTY<br>PLY | MARK<br>TYPE       | PITCH<br>TC<br>BC | SPAN     | TRUSS<br>HEIGHT | LUMBER<br>TOP BOT | OVERHANG<br>LEFT RIGHT | HEEL HEIGHT<br>LEFT RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY:<br>REMARKS |
|---------|------------|--------------------|-------------------|----------|-----------------|-------------------|------------------------|---------------------------|------------------|---------------------|---------------------|
|         | 1          | T1<br>HIP GIRDER   | 10.00<br>0.00     | 25-06-00 | 04-01-04        | 2 X 4 2 X 6       | 01-03-08<br>01-03-08   | 01-07-11<br>01-07-11      | 122.24<br>76.33  |                     |                     |
|         | 2          | T2<br>HIP          | 10.00<br>0.00     | 25-06-00 | 05-01-04        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08   | 01-07-11<br>01-07-11      | 213.62<br>139.34 |                     |                     |
|         | 2          | T3<br>HIP          | 10.00<br>0.00     | 25-06-00 | 06-01-04        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08   | 01-07-11<br>01-07-11      | 226.20<br>144.00 |                     |                     |
|         | 2          | T4<br>HIP          | 10.00<br>0.00     | 25-06-00 | 07-01-04        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08   | 01-07-11<br>01-07-11      | 231.82<br>145.66 |                     |                     |
|         | 2          | T5<br>HIP          | 10.00<br>0.00     | 25-06-00 | 08-01-04        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08   | 01-07-11<br>01-07-11      | 245.12<br>154.00 |                     |                     |
|         | 2          | T6<br>HIP          | 10.00<br>0.00     | 25-06-00 | 09-01-04        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08   | 01-07-11<br>01-07-11      | 252.02<br>160.00 |                     |                     |
|         | 1          | T7<br>HIP          | 10.00<br>0.00     | 25-06-00 | 10-01-04        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08   | 01-07-11<br>01-07-11      | 128.57<br>81.67  |                     |                     |
|         | 1<br>2 Ply | T8<br>HIP GIRDER   | 10.00<br>0.00     | 25-06-00 | 10-04-08        | 2 X 4 2 X 6       | 01-03-08<br>01-03-08   | 01-07-11<br>01-07-11      | 325.60<br>201.34 |                     |                     |
|         | 1<br>2 Ply | T9<br>HIP GIRDER   | 10.00<br>0.00     | 25-06-00 | 09-03-08        | 2 X 4 2 X 6       | 01-03-08<br>01-03-08   | 01-07-11<br>01-07-11      | 301.76<br>189.00 |                     |                     |
|         | 6          | T10<br>PIGGYBACK   | 10.00<br>0.00     | 16-03-00 | 09-08-12        | 2 X 4 2 X 4       | 01-03-08<br>00-00-00   | 01-07-11<br>09-03-04      | 585.66<br>357.00 |                     |                     |
|         | 1          | T11<br>HIP         | 10.00<br>0.00     | 16-03-00 | 10-08-12        | 2 X 4 2 X 4       | 01-03-08<br>00-00-00   | 01-07-11<br>09-04-03      | 105.99<br>66.67  |                     |                     |
|         | 1<br>2 Ply | T12<br>ROOF        | 10.00<br>0.00     | 26-06-00 | 04-01-04        | 2 X 4 2 X 6       | 01-03-08<br>01-03-08   | 01-07-11<br>01-07-11      | 258.80<br>165.34 |                     |                     |
|         | 1          | T13<br>COMMON      | 10.00<br>0.00     | 14-06-00 | 07-08-03        | 2 X 4 2 X 4       | 00-00-00<br>00-00-00   | 01-07-11<br>01-07-11      | 64.27<br>42.00   |                     |                     |
|         | 2          | T13S<br>ROOF       | 10.00<br>6.00     | 14-06-00 | 07-08-03        | 2 X 4 2 X 4       | 00-00-00<br>00-00-00   | 01-07-11<br>01-07-11      | 125.86<br>82.66  |                     |                     |
|         | 1          | T14<br>FLAT        | 0.00<br>0.00      | 14-06-00 | 05-09-11        | 2 X 4 2 X 4       | 00-00-00<br>00-00-00   | 05-09-11<br>05-09-11      | 70.34<br>44.50   |                     |                     |
|         | 1          | T15<br>FLAT        | 0.00<br>0.00      | 14-06-00 | 07-05-11        | 2 X 4 2 X 4       | 00-00-00<br>00-00-00   | 07-05-11<br>07-05-11      | 80.12<br>49.83   |                     |                     |
|         | 1<br>2 Ply | T16<br>FLAT GIRDER | 0.00<br>0.00      | 14-06-00 | 09-01-11        | 2 X 6 2 X 6       | 00-00-00<br>00-00-00   | 00-00-00<br>09-01-11      | 235.24<br>148.00 |                     |                     |
|         | 3          | T17<br>COMMON      | 10.00<br>0.00     | 11-00-00 | 06-02-11        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08   | 01-07-11<br>01-07-11      | 162.33<br>108.99 |                     |                     |



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 09/11/17 |
| SALES REP | Mario    |

JOB TRACK: 42067      LAYOUT ID: 272497      LOCATION: INNISFIL  
 BUILDER: BAYVIEW WELLINGTON/ALCONA SHO      SUB-BUILDER:  
 MODEL: S32-10C-15      ELEVATION: A

### ROOF TRUSSES

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

| PROFILE | QTY | MARK<br>TYPE      | PITCH<br>TO<br>BC | SPAN     | TRUSS<br>HEIGHT | LUMBER |       | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY:<br>REMARKS |
|---------|-----|-------------------|-------------------|----------|-----------------|--------|-------|---------------------------|------------------------------|------------------|---------------------|---------------------|
|         | PLY |                   |                   |          |                 | TOP    | BOT   |                           |                              |                  |                     |                     |
|         | 1   | G17<br>COMMON     | 10.00<br>0.00     | 11-00-00 | 06-02-11        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 53.45<br>35.33   |                     |                     |
|         | 1   | T18<br>HIP GIRDER | 10.00<br>0.00     | 10-09-00 | 04-10-07        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-07-11<br>01-11-14         | 49.87<br>32.67   |                     |                     |
|         | 1   | T19<br>COMMON     | 10.00<br>0.00     | 10-09-00 | 06-03-08        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 01-07-11<br>01-11-14         | 50.04<br>32.50   |                     |                     |
|         | 1   | T20<br>HIP        | 10.00<br>0.00     | 10-09-00 | 05-09-11        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 01-07-11<br>01-11-14         | 48.34<br>32.17   |                     |                     |
|         | 1   | T21<br>HIP        | 10.00<br>0.00     | 11-02-00 | 04-01-11        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 50.15<br>32.67   |                     |                     |
|         | 1   | PB1<br>PIGGYBACK  | 10.00<br>0.00     | 04-09-15 | 01-06-04        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 00-04-13<br>00-04-13         | 13.73<br>9.33    |                     |                     |
|         | 3   | PB2<br>PIGGYBACK  | 10.00<br>0.00     | 04-09-15 | 02-04-15        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 00-04-13<br>00-04-13         | 43.38<br>26.01   |                     |                     |
|         | 1   | PB3<br>PIGGYBACK  | 10.00<br>0.00     | 04-09-15 | 01-10-08        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 00-04-13<br>00-04-13         | 14.03<br>10.00   |                     |                     |
|         | 14  | J1<br>JACK-OPEN   | 6.00<br>0.00      | 05-10-08 | 04-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-02-00<br>04-01-04         | 235.06<br>149.38 |                     |                     |
|         | 3   | J2<br>JACK-OPEN   | 10.00<br>0.00     | 03-05-08 | 04-10-07        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 01-11-14<br>04-10-07         | 41.04<br>27.99   |                     |                     |
|         | 2   | J3<br>JACK-OPEN   | 10.00<br>0.00     | 03-10-08 | 03-01-09        | 2 X 4  | 2 X 4 | 01-03-08<br>-02-01-01     | 01-07-11<br>00-03-08         | 27.46<br>18.66   |                     |                     |
|         | 2   | J4<br>JACK-OPEN   | 10.00<br>0.00     | 01-10-08 | 03-01-09        | 2 X 4  | 2 X 4 | 01-03-08<br>-00-01-01     | 01-07-11<br>00-03-08         | 19.98<br>14.00   |                     |                     |
|         | 13  | J5<br>JACK-OPEN   | 5.00<br>0.00      | 05-05-00 | 02-07-02        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 00-04-01<br>02-07-02         | 189.80<br>121.29 |                     |                     |
|         | 6   | J10<br>JACK-OPEN  | 5.00<br>0.00      | 03-01-08 | 01-07-11        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 00-04-01<br>01-07-11         | 54.96<br>36.00   |                     |                     |
|         | 2   | J11<br>JACK-OPEN  | 5.00<br>0.00      | 04-01-08 | 02-00-11        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 00-04-01<br>02-00-11         | 23.06<br>14.66   |                     |                     |

TOTAL # TRUSS= 87.00

TOTAL BFT OF ALL TRUSSES=

2948.99 BFT. TOTAL WEIGHT OF ALL TRUSSES= 4649.91 LBS.

### HARDWARE

| QTY | ITEM TYPE | MODEL    | LENGTH<br>FT-IN-16 |
|-----|-----------|----------|--------------------|
| 2   | Hangers   | HGUS26-2 |                    |
| 23  | Hangers   | LJS26DS  |                    |



## Delivery Shiplist

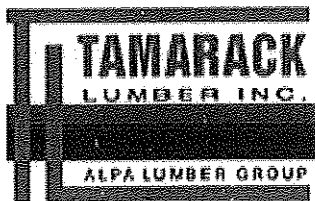
|           |          |
|-----------|----------|
| DATE      | 09/11/17 |
| SALES REP | Mario    |

|                                        |                   |                    |
|----------------------------------------|-------------------|--------------------|
| JOB TRACK: 42067                       | LAYOUT ID: 272497 | LOCATION: INNISFIL |
| BUILDER: BAYVIEW WELLINGTON/ALCONA SHO | SUB-BUILDER:      |                    |
| MODEL: S32-10C-15                      | ELEVATION: A      |                    |

### HARDWARE

| QTY | ITEM TYPE | MODEL   | LENGTH<br>FT-IN-16 |
|-----|-----------|---------|--------------------|
| 3   | Hangers   | LUS24   |                    |
| 2   | Hangers   | LUS26-2 |                    |

TOTAL # ITEMS= 30.00



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 09/11/17 |
| SALES REP | Mario    |

JOB TRACK: 42067      LAYOUT ID: 272498      LOCATION: INNISFIL  
 BUILDER: BAYVIEW WELLINGTON/ALCONA SHO      SUB-BUILDER:  
 MODEL: S32-10G-15      ELEVATION: B

### ROOF TRUSSES

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

| PROFILE | QTY        | MARK<br>TYPE        | PITCH<br>TC<br>BC | SPAN     | TRUSS<br>HEIGHT | LUMBER |       | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY:<br>REMARKS |
|---------|------------|---------------------|-------------------|----------|-----------------|--------|-------|---------------------------|------------------------------|------------------|---------------------|---------------------|
|         | PLY        |                     |                   |          |                 | TOP    | BOT   |                           |                              |                  |                     |                     |
|         | 1          | T1<br>HIP GIRDER    | 10.00<br>0.00     | 25-06-00 | 04-01-04        | 2 X 4  | 2 X 6 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 122.24<br>76.33  |                     |                     |
|         | 2          | T2<br>HIP           | 10.00<br>0.00     | 25-06-00 | 05-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 213.62<br>139.34 |                     |                     |
|         | 2          | T3<br>HIP           | 10.00<br>0.00     | 25-06-00 | 06-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 226.20<br>144.00 |                     |                     |
|         | 2          | T4<br>HIP           | 10.00<br>0.00     | 25-06-00 | 07-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 231.82<br>145.66 |                     |                     |
|         | 2          | T5<br>HIP           | 10.00<br>0.00     | 25-06-00 | 08-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 243.62<br>154.00 |                     |                     |
|         | 2          | T6<br>HIP           | 10.00<br>0.00     | 25-06-00 | 09-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 252.02<br>160.00 |                     |                     |
|         | 6          | T7<br>HIP           | 10.00<br>0.00     | 25-06-00 | 10-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 771.42<br>490.02 |                     |                     |
|         | 2          | T70<br>HIP          | 10.00<br>0.00     | 25-06-00 | 11-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 282.02<br>175.34 |                     |                     |
|         | 1<br>2 Ply | T31<br>ROOF         | 10.00<br>0.00     | 25-06-00 | 04-08-04        | 2 X 4  | 2 X 6 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 253.80<br>158.00 |                     |                     |
|         | 1          | T18X<br>HIP GIRDER  | 10.00<br>0.00     | 11-02-00 | 04-10-07        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 52.70<br>34.67   |                     |                     |
|         | 1          | T19X<br>COMMON      | 10.00<br>0.00     | 11-02-00 | 06-03-08        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 54.77<br>37.00   |                     |                     |
|         | 1          | T20X<br>HIP         | 10.00<br>0.00     | 11-02-00 | 05-09-11        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 53.12<br>36.00   |                     |                     |
|         | 1          | T21<br>HIP          | 10.00<br>0.00     | 11-02-00 | 04-01-11        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 50.15<br>32.67   |                     |                     |
|         | 1          | T210<br>HIP         | 10.00<br>0.00     | 11-02-00 | 02-05-11        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 47.85<br>32.67   |                     |                     |
|         | 1<br>3 Ply | T32<br>HIP GIRDER   | 0.00<br>0.00      | 14-06-00 | 02-01-15        | 2 X 6  | 2 X 6 | 00-00-00<br>00-00-00      | 00-05-08<br>00-05-08         | 220.23<br>145.50 |                     |                     |
|         | 2          | PB30<br>PIGGYBACK   | 10.00<br>0.00     | 03-11-02 | 02-00-07        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 00-04-13<br>00-04-13         | 24.36<br>16.00   |                     |                     |
|         | 2          | PB30CP<br>PIGGYBACK | 10.00<br>0.00     | 03-11-02 | 01-10-08        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 00-04-13<br>00-04-13         | 23.88<br>16.00   |                     |                     |
|         | 12         | J1<br>JACK-OPEN     | 6.00<br>0.00      | 05-10-08 | 04-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-02-00<br>04-01-04         | 201.48<br>128.04 |                     |                     |



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 09/11/17 |
| SALES REP | Mario    |

JOB TRACK: 42067      LAYOUT ID: 272498      LOCATION: INNISFIL  
 BUILDER: BAYVIEW WELLINGTON/ALCONA SHO      SUB-BUILDER:  
 MODEL: S32-10G-15      ELEVATION: B

### ROOF TRUSSES

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

| PROFILE | QTY | MARK<br>TYPE        | PITCH<br>TC<br>BC | SPAN     | TRUSS<br>HEIGHT | LUMBER |       | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY:<br>REMARKS |
|---------|-----|---------------------|-------------------|----------|-----------------|--------|-------|---------------------------|------------------------------|------------------|---------------------|---------------------|
|         | PLY |                     |                   |          |                 | TOP    | BOT   |                           |                              |                  |                     |                     |
|         | 2   | J3<br>JACK-OPEN     | 10.00<br>0.00     | 03-10-08 | 03-01-09        | 2 X 4  | 2 X 4 | 01-03-08<br>-02-01-01     | 00-04-13<br>00-04-13         | 27.46<br>18.66   |                     |                     |
|         | 2   | J4<br>JACK-OPEN     | 10.00<br>0.00     | 01-10-08 | 03-01-09        | 2 X 4  | 2 X 4 | 01-03-08<br>-00-01-01     | 00-04-13<br>00-04-13         | 19.98<br>14.00   |                     |                     |
|         | 8   | J13<br>JACK-OPEN    | 5.00<br>0.00      | 04-01-08 | 02-00-11        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 00-04-01<br>02-00-11         | 92.24<br>58.64   |                     |                     |
|         | 3   | J30<br>JACK-OPEN    | 10.00<br>0.00     | 03-10-08 | 04-10-07        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-07-11<br>00-05-13         | 50.49<br>32.01   |                     |                     |
|         | 7   | J31<br>JACK-PARTIAL | 6.00<br>0.00      | 07-00-08 | 04-08-04        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-02-00<br>04-08-04         | 191.66<br>127.19 |                     |                     |

TOTAL # TRUSS= 67.00

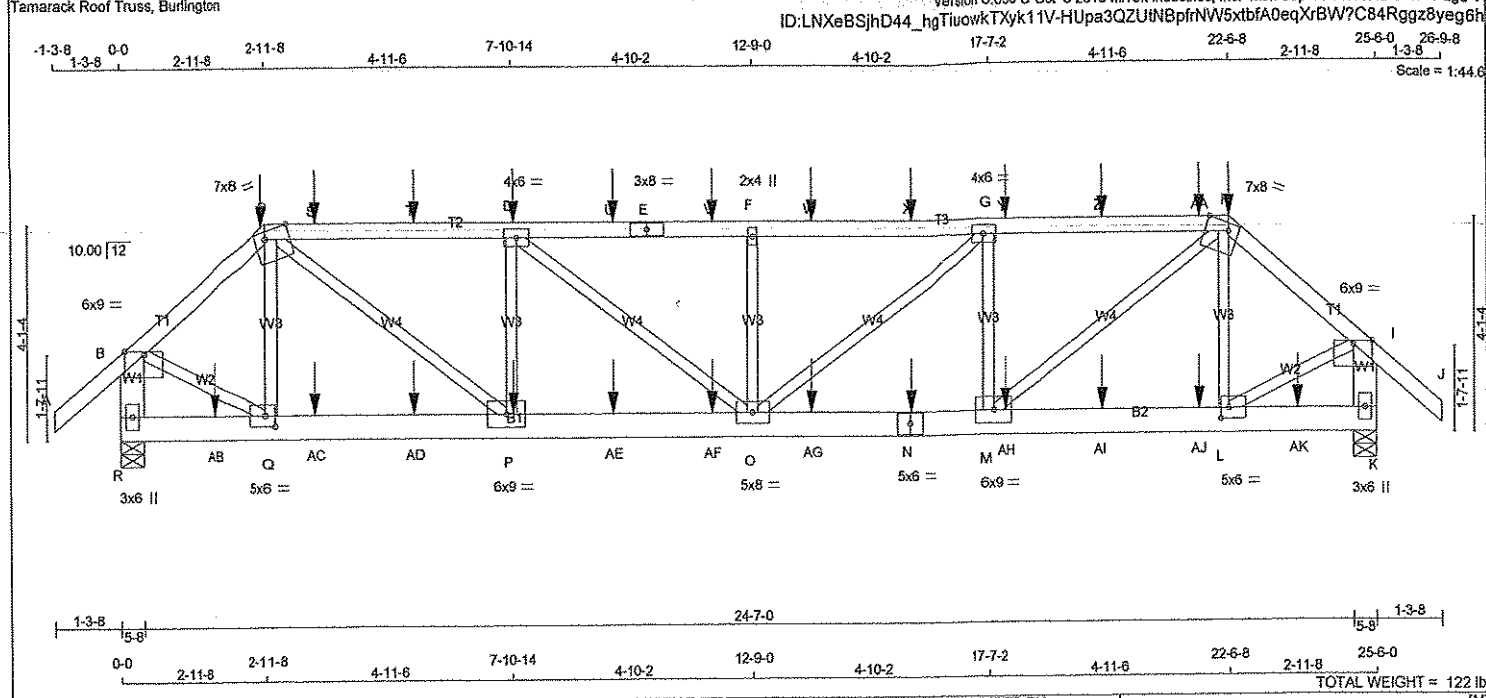
TOTAL BFT OF ALL TRUSSES=

2371.74 BFT. TOTAL WEIGHT OF ALL TRUSSES= 3707.13 LBS.

### HARDWARE

| QTY | ITEM TYPE | MODEL    | LENGTH<br>FT-IN-16 |
|-----|-----------|----------|--------------------|
| 1   | Hangers   | HGUS26-2 |                    |
| 7   | Hangers   | LJS26DS  |                    |

TOTAL # ITEMS= 8.00



**LUMBER**

| N. L. G. A. RULES | CHORDS | SIZE | LUMBER     | DESCR. |
|-------------------|--------|------|------------|--------|
| A - C             | 2x4    | DRY  | 2100F 1.8E | SPF    |
| C - E             | 2x4    | DRY  | 2100F 1.8E | SPF    |
| E - H             | 2x4    | DRY  | 2100F 1.8E | SPF    |
| H - J             | 2x4    | DRY  | 2100F 1.8E | SPF    |
| R - B             | 2x6    | DRY  | No.2       | SPF    |
| K - I             | 2x6    | DRY  | No.2       | SPF    |
| R - N             | 2x6    | DRY  | No.2       | SPF    |
| N - K             | 2x6    | DRY  | No.2       | SPF    |

ALL WEBS EXCEPT 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y         | X    |
|----|---------|--------|-----|-----|-----------|------|
| B  | TMWV-p  | MT20   | 6.0 | 9.0 | Edge      |      |
| C  | TTWVW-m | MT20   | 7.0 | 8.0 | Edge 5.50 |      |
| D  | TMWV-t  | MT20   | 4.0 | 6.0 |           |      |
| E  | TS-t    | MT20   | 3.0 | 8.0 |           |      |
| F  | TMW-w   | MT20   | 2.0 | 4.0 |           |      |
| G  | TMW-w   | MT20   | 4.0 | 6.0 |           |      |
| H  | TTWVW-m | MT20   | 7.0 | 8.0 | Edge 5.50 |      |
| I  | TMWV-p  | MT20   | 6.0 | 9.0 | Edge      |      |
| K  | BMV1+p  | MT20   | 3.0 | 6.0 |           |      |
| L  | BMWV-t  | MT20   | 5.0 | 6.0 | 2.50      | 2.00 |
| M  | BMWV-t  | MT20   | 6.0 | 9.0 |           |      |
| N  | BS-t    | MT20   | 5.0 | 6.0 |           |      |
| O  | BMWVW-t | MT20   | 5.0 | 8.0 |           |      |
| P  | BMWV-t  | MT20   | 6.0 | 9.0 |           |      |
| Q  | BMWV-t  | MT20   | 5.0 | 6.0 | 2.50      | 2.00 |
| R  | BMV1+p  | MT20   | 3.0 | 6.0 |           |      |

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

**HANGERS NOTES**

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 227.6 lbs FACTORED DOWN AT 2-11-8, 227.6 lbs FACTORED DOWN AT 22-6-8, 148.2 lbs FACTORED DOWN AT 3-11-4, 147.1 lbs FACTORED DOWN AT 5-11-4, 147.1 lbs FACTORED DOWN AT 7-11-4, 147.1 lbs FACTORED DOWN AT 9-11-4, 147.1 lbs FACTORED DOWN AT 11-11-4, 147.1 lbs FACTORED DOWN AT 13-11-4, 147.1 lbs FACTORED DOWN AT 15-11-4, 147.1 lbs FACTORED DOWN AT 17-11-4, AND 147.1 lbs FACTORED DOWN AT 19-11-4, AND 171.2 lbs FACTORED DOWN AT 21-11-4 ON TOP CHORD, AND 69.9 lbs FACTORED DOWN AT 1-11-4, 69.9 lbs FACTORED DOWN AT 3-11-4, 69.9 lbs FACTORED DOWN AT 5-11-4, 69.9 lbs FACTORED DOWN AT 7-11-4, 69.9 lbs FACTORED DOWN AT 9-11-4, 69.9 lbs FACTORED DOWN AT 11-11-4, 69.9 lbs FACTORED DOWN AT 13-11-4, 69.9 lbs FACTORED DOWN AT 15-11-4, 69.9 lbs FACTORED DOWN AT 17-11-4, 69.9 lbs FACTORED DOWN AT 19-11-4, AND 69.9 lbs FACTORED DOWN AT 21-11-4, AND 69.9 lbs FACTORED DOWN AT 23-11-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX | BRG | REQD |
|----|------|------|------|------|--------|-------|-----|------|
| R  | 3277 | 0    | 3277 | 0    | 0      | 5-8   | 5-8 |      |
| K  | 3322 | 0    | 3322 | 0    | 0      | 5-8   | 5-8 |      |

**UNFACTORED REACTIONS**

| JT | COMBINED | SNOW     | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|----------|----------|---------|-----------|-------|---------|-------|
| R  | 2577     | 1653 / 0 | 477 / 0 | 0 / 0     | 0 / 0 | 448 / 0 | 0 / 0 |
| K  | 2612     | 1677 / 0 | 482 / 0 | 0 / 0     | 0 / 0 | 453 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) R, K

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.00 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

**LOADING**

| CHORDS |                           |                  | FACTORED |             |       | WEBS                      |           |             | FACTORED |                           |     |
|--------|---------------------------|------------------|----------|-------------|-------|---------------------------|-----------|-------------|----------|---------------------------|-----|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | MAX      | MAX. UNBRAC | MEMB. | MAX. FACTORED FORCE (LBS) | MAX       | MAX. UNBRAC | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX |
| FR-TO  |                           | FROM TO          |          | LENGTH      | FR-TO |                           |           |             | FR-TO    |                           |     |
| A-B    | 0 / 54                    | -122.2           | -122.2   | 0.12 (1)    | 10.00 | Q-C                       | -683 / 0  | 0.17 (1)    |          |                           |     |
| B-C    | -3068 / 0                 | -122.2           | -122.2   | 0.18 (1)    | 4.66  | C-P                       | 0 / 3067  | 0.76 (1)    |          |                           |     |
| C-S    | -4783 / 0                 | -122.2           | -122.2   | 0.66 (1)    | 3.32  | P-D                       | -1629 / 0 | 0.41 (1)    |          |                           |     |
| S-T    | -4783 / 0                 | -122.2           | -122.2   | 0.66 (1)    | 3.32  | D-O                       | 0 / 806   | 0.22 (1)    |          |                           |     |
| T-D    | -4783 / 0                 | -122.2           | -122.2   | 0.66 (1)    | 3.32  | O-F                       | -868 / 0  | 0.22 (1)    |          |                           |     |
| D-U    | -5502 / 0                 | -122.2           | -122.2   | 0.71 (1)    | 3.05  | O-G                       | 0 / 885   | 0.22 (1)    |          |                           |     |
| U-E    | -5502 / 0                 | -122.2           | -122.2   | 0.71 (1)    | 3.05  | M-G                       | -1618 / 0 | 0.41 (1)    |          |                           |     |
| E-V    | -5502 / 0                 | -122.2           | -122.2   | 0.71 (1)    | 3.05  | M-H                       | 0 / 3049  | 0.75 (1)    |          |                           |     |
| V-F    | -5502 / 0                 | -122.2           | -122.2   | 0.71 (1)    | 3.05  | L-H                       | -694 / 0  | 0.18 (1)    |          |                           |     |
| F-W    | -5502 / 0                 | -122.2           | -122.2   | 0.73 (1)    | 3.00  | B-Q                       | 0 / 2528  | 0.63 (1)    |          |                           |     |
| W-X    | -5502 / 0                 | -122.2           | -122.2   | 0.73 (1)    | 3.00  | L-I                       | 0 / 2562  | 0.63 (1)    |          |                           |     |
| X-G    | -5502 / 0                 | -122.2           | -122.2   | 0.73 (1)    | 3.00  |                           |           |             |          |                           |     |
| G-Y    | -4799 / 0                 | -122.2           | -122.2   | 0.68 (1)    | 3.27  |                           |           |             |          |                           |     |
| Y-Z    | -4799 / 0                 | -122.2           | -122.2   | 0.68 (1)    | 3.27  |                           |           |             |          |                           |     |
| Z-AA   | -4799 / 0                 | -122.2           | -122.2   | 0.68 (1)    | 3.27  |                           |           |             |          |                           |     |
| AA-H   | -4799 / 0                 | -122.2           | -122.2   | 0.68 (1)    | 3.27  |                           |           |             |          |                           |     |
| H-I    | -3109 / 0                 | -122.2           | -122.2   | 0.19 (1)    | 4.63  |                           |           |             |          |                           |     |
| I-J    | 0 / 54                    | -122.2           | -122.2   | 0.12 (1)    | 10.00 |                           |           |             |          |                           |     |
| R-B    | -3261 / 0                 | 0.0              | 0.0      | 0.24 (1)    | 5.82  |                           |           |             |          |                           |     |
| K-I    | -3300 / 0                 | 0.0              | 0.0      | 0.24 (1)    | 5.79  |                           |           |             |          |                           |     |
| R-AB   | 0 / 0                     | -28.0            | -28.0    | 0.12 (2)    | 10.00 |                           |           |             |          |                           |     |
| AB-Q   | 0 / 0                     | -28.0            | -28.0    | 0.12 (2)    | 10.00 |                           |           |             |          |                           |     |
| Q-AC   | 0 / 2329                  | -28.0            | -28.0    | 0.40 (1)    | 10.00 |                           |           |             |          |                           |     |
| AC-AD  | 0 / 2329                  | -28.0            | -28.0    | 0.40 (1)    | 10.00 |                           |           |             |          |                           |     |
| AD-P   | 0 / 2329                  | -28.0            | -28.0    | 0.40 (1)    | 10.00 |                           |           |             |          |                           |     |
| P-AE   | 0 / 4783                  | -28.0            | -28.0    | 0.74 (1)    | 10.00 |                           |           |             |          |                           |     |
| AE-AF  | 0 / 4783                  | -28.0            | -28.0    | 0.74 (1)    | 10.00 |                           |           |             |          |                           |     |
| AF-O   | 0 / 4783                  | -28.0            | -28.0    | 0.74 (1)    | 10.00 |                           |           |             |          |                           |     |
| O-AG   | 0 / 4800                  | -28.0            | -28.0    | 0.74 (1)    | 10.00 |                           |           |             |          |                           |     |
| AG-N   | 0 / 4800                  | -28.0            | -28.0    | 0.74 (1)    | 10.00 |                           |           |             |          |                           |     |
| N-M    | 0 / 4800                  | -28.0            | -28.0    | 0.74 (1)    | 10.00 |                           |           |             |          |                           |     |
| M-AH   | 0 / 2360                  | -28.0            | -28.0    | 0.40 (1)    | 10.00 |                           |           |             |          |                           |     |
| AH-AI  | 0 / 2360                  | -28.0            | -28.0    | 0.40 (1)    | 10.00 |                           |           |             |          |                           |     |
| AI-AJ  | 0 / 2360                  | -28.0            | -28.0    | 0.40 (1)    | 10.00 |                           |           |             |          |                           |     |
| AJ-L   | 0 / 2360                  | -28.0            | -28.0    | 0.40 (1)    | 10.00 |                           |           |             |          |                           |     |
| L-AK   | 0 / 0                     | -28.0            | -28.0    | 0.12 (2)    | 10.00 |                           |           |             |          |                           |     |
| AK-K   | 0 / 0                     | -28.0            | -28.0    | 0.12 (2)    | 10.00 |                           |           |             |          |                           |     |

DWG NO. TAM 460971  
 STRUCTURAL  
 COMPONENT ONLY

**DESIGN CRITERIA**

\*\*\* SPECIAL LOADS ANALYSIS \*\*\*  
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.  
LOADS WERE DERIVED FROM USER INPUT  
NO FURTHER MODIFICATIONS WERE MADE

**SPECIFIED LOADS:**  
TOP CH. LL = 38.3 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 58.7 PSF

**SPACING = 24.0 IN. C/C**

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

\*\*\* NON STANDARD GIRDER \*\*\*  
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 085-09  
- TPIC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.85")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.22")  
ALLOWABLE DEFL.(TL)= L/360 (0.85")  
CALCULATED VERT. DEFL.(TL)= L/896 (0.34")

CSI: TC=0.73 (F-G:1), BC=0.74 (O-P:1), WB=0.76 (C-P:1), SSF=0.54 (G-H:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00  
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 0.50  
AUTOSOLVE HEELS OFF

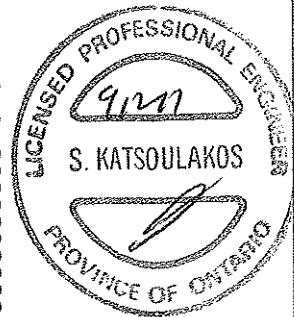
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) | (PLI)   |
| MT20  | 618       | 354   | 1687    |
|       | 822       | 2284  | 1655    |

PLATE PLACEMENT TOL. = 0.250 inches  
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (C) (INPUT = 0.80)  
JSI METAL= 0.83 (N) (INPUT = 1.00)



DRWG NO. TAN 4609717  
STRUCTURAL  
COMPONENT ONLY

|                    |                  |               |          |                                |          |
|--------------------|------------------|---------------|----------|--------------------------------|----------|
| JOB NAME<br>272497 | TRUSS NAME<br>T1 | QUANTITY<br>1 | PLY<br>1 | JOB DESC. 42067<br>TRUSS DESC. | DRWG NO. |
|--------------------|------------------|---------------|----------|--------------------------------|----------|

Version 8.030 S Oct 5 2016 MTek Industries, Inc. Mon Sep 11 16:08:42 2017 Page 2

Tamarack Roof Truss, Burlington

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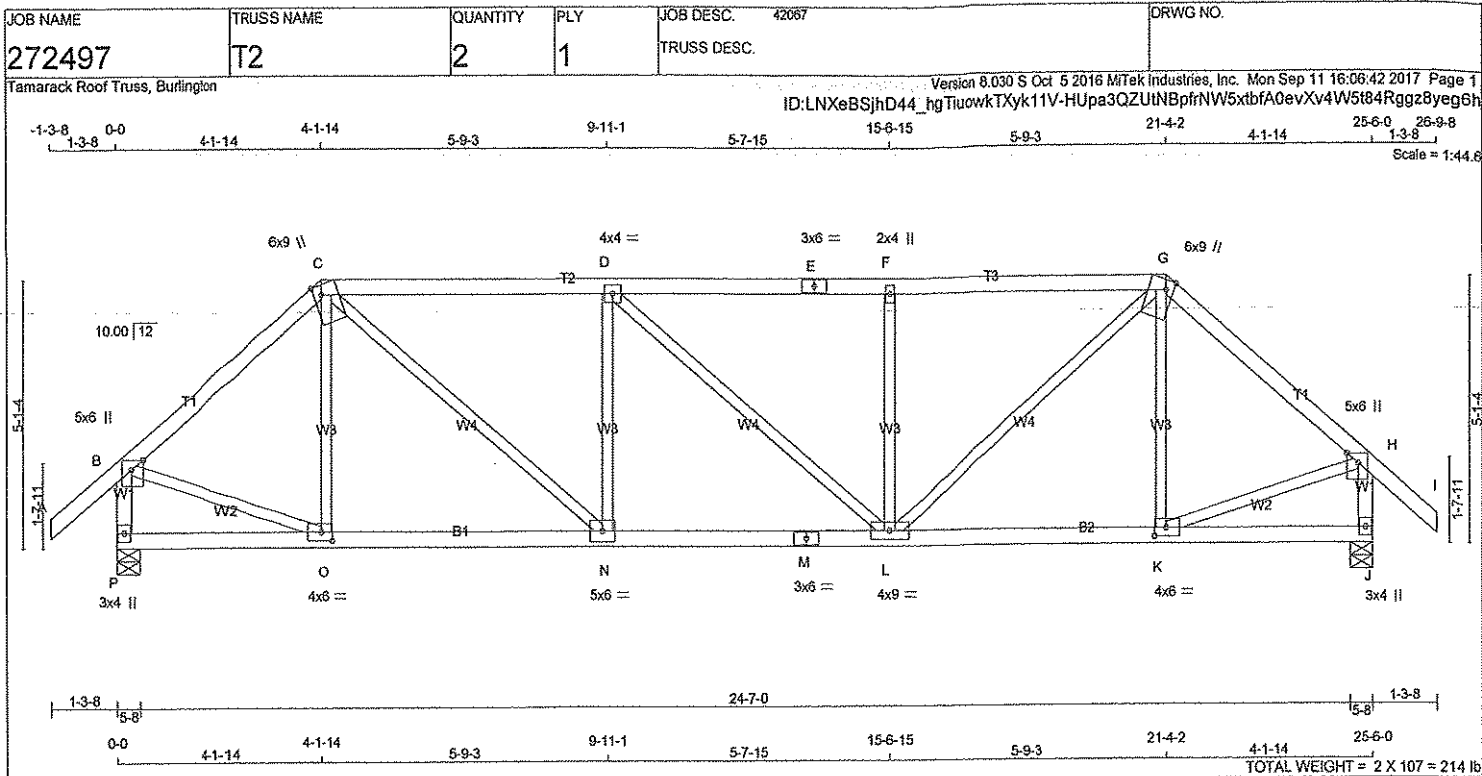
FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  |
|----|---------|------|------|------|-------|------|-------|
| C  | 2-11-8  | -228 | -228 | --   | FRONT | VERT | TOTAL |
| D  | 7-11-4  | -147 | -147 | --   | FRONT | VERT | TOTAL |
| H  | 22-6-8  | -228 | -228 | --   | FRONT | VERT | TOTAL |
| N  | 15-11-4 | -40  | -70  | --   | FRONT | VERT | TOTAL |
| P  | 7-11-4  | -40  | -70  | --   | FRONT | VERT | TOTAL |
| S  | 3-11-4  | -148 | -148 | --   | FRONT | VERT | TOTAL |
| T  | 5-11-4  | -147 | -147 | --   | FRONT | VERT | TOTAL |
| U  | 9-11-4  | -147 | -147 | --   | FRONT | VERT | TOTAL |
| V  | 11-11-4 | -147 | -147 | --   | FRONT | VERT | TOTAL |
| W  | 13-11-4 | -147 | -147 | --   | FRONT | VERT | TOTAL |
| X  | 15-11-4 | -147 | -147 | --   | FRONT | VERT | TOTAL |
| Y  | 17-11-4 | -147 | -147 | --   | FRONT | VERT | TOTAL |
| Z  | 19-11-4 | -147 | -147 | --   | FRONT | VERT | TOTAL |
| AA | 21-11-4 | -171 | -171 | --   | FRONT | VERT | TOTAL |
| AB | 1-11-4  | -40  | -70  | --   | FRONT | VERT | TOTAL |
| AC | 3-11-4  | -40  | -70  | --   | FRONT | VERT | TOTAL |
| AD | 5-11-4  | -40  | -70  | --   | FRONT | VERT | TOTAL |
| AE | 9-11-4  | -40  | -70  | --   | FRONT | VERT | TOTAL |
| AF | 11-11-4 | -40  | -70  | --   | FRONT | VERT | TOTAL |
| AG | 13-11-4 | -40  | -70  | --   | FRONT | VERT | TOTAL |
| AH | 17-11-4 | -40  | -70  | --   | FRONT | VERT | TOTAL |
| AI | 19-11-4 | -40  | -70  | --   | FRONT | VERT | TOTAL |
| AJ | 21-11-4 | -40  | -70  | --   | FRONT | VERT | TOTAL |
| AK | 23-11-4 | -40  | -70  | --   | FRONT | VERT | TOTAL |



DWG NO. TAM 46017-17  
STRUCTURAL  
COMPONENT ONLY

*per*



| LUMBER            |      |        |        |     |
|-------------------|------|--------|--------|-----|
| N. L. G. A. RULES |      |        |        |     |
| CHORDS            | SIZE | LUMBER | DESCR. |     |
| A - C             | 2x4  | DRY    | No.2   | SPF |
| C - E             | 2x4  | DRY    | No.2   | SPF |
| E - G             | 2x4  | DRY    | No.2   | SPF |
| G - I             | 2x4  | DRY    | No.2   | SPF |
| P - B             | 2x4  | DRY    | No.2   | SPF |
| J - H             | 2x4  | DRY    | No.2   | SPF |
| P - M             | 2x4  | DRY    | No.2   | SPF |
| M - J             | 2x4  | DRY    | No.2   | SPF |

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |        |        |     |               |
|-----------------------------|--------|--------|-----|---------------|
| JT                          | TYPE   | PLATES | W   | LEN Y X       |
| B                           | TMVW+p | MT20   | 5.0 | 6.0 Edge 2.75 |
| C                           | TTWW+m | MT20   | 6.0 | 9.0 Edge 1.75 |
| D                           | TMWW-t | MT20   | 4.0 | 4.0           |
| E                           | TS-t   | MT20   | 3.0 | 6.0           |
| F                           | TMW+w  | MT20   | 2.0 | 4.0           |
| G                           | TTWW+m | MT20   | 6.0 | 9.0 Edge 1.75 |
| H                           | TMVW+p | MT20   | 5.0 | 6.0 Edge 2.75 |
| J                           | BMV1+p | MT20   | 3.0 | 4.0           |
| K                           | BMWW-t | MT20   | 4.0 | 6.0 2.00 2.75 |
| L                           | BMWW-t | MT20   | 4.0 | 9.0           |
| M                           | BS-t   | MT20   | 3.0 | 6.0           |
| N                           | BMWW-t | MT20   | 5.0 | 6.0           |
| O                           | BMWW-t | MT20   | 4.0 | 6.0 2.00 2.75 |
| P                           | BMV1+p | MT20   | 3.0 | 4.0           |

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| P  | 2084                    | 0                               | 2084      | 0        |
| J  | 2084                    | 0                               | 2084      | 0        |

##### UNFACTORED REACTIONS

|    | 1ST LCASE | MAX/MIN  | COMPONENT | REACTIONS |
|----|-----------|----------|-----------|-----------|
| JT | COMBINED  | SNOW     | LIVE      | PERM.LIVE |
| P  | 1612      | 1081 / 0 | 268 / 0   | 0 / 0     |
| J  | 1612      | 1081 / 0 | 268 / 0   | 0 / 0     |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) P, J

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.53 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                                | WEBS     |                           |                                |                                |
|--------|---------------------------|---------------------------|--------------------------------|----------|---------------------------|--------------------------------|--------------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LBS) | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) |
| FR-TO  |                           |                           |                                | FR-TO    |                           |                                |                                |
| A-B    | 0 / 54                    | -122.2                    | -122.2                         | 0.17 (1) | 10.00                     | 0-C                            | -277 / 102                     |
| B-C    | -1844 / 0                 | -122.2                    | -122.2                         | 0.45 (1) | 4.44                      | C-N                            | 0 / 1428                       |
| C-D    | -2505 / 0                 | -122.2                    | -122.2                         | 0.73 (1) | 3.53                      | N-D                            | -755 / 0                       |
| D-E    | -2503 / 0                 | -122.2                    | -122.2                         | 0.72 (1) | 3.53                      | D-L                            | -3 / 0                         |
| E-F    | -2503 / 0                 | -122.2                    | -122.2                         | 0.72 (1) | 3.53                      | L-F                            | -754 / 0                       |
| F-G    | -2503 / 0                 | -122.2                    | -122.2                         | 0.72 (1) | 3.54                      | L-G                            | 0 / 1425                       |
| G-H    | -1844 / 0                 | -122.2                    | -122.2                         | 0.45 (1) | 4.44                      | K-G                            | -275 / 102                     |
| H-I    | 0 / 54                    | -122.2                    | -122.2                         | 0.17 (1) | 10.00                     | B-O                            | 0 / 1478                       |
| P-B    | -2041 / 0                 | 0.0                       | 0.0                            | 0.22 (1) | 5.92                      | K-H                            | 0 / 1478                       |
| J-H    | -2041 / 0                 | 0.0                       | 0.0                            | 0.22 (1) | 5.91                      |                                |                                |
| P-O    | 0 / 0                     | -28.0                     | -28.0                          | 0.16 (2) | 10.00                     |                                |                                |
| O-N    | 0 / 1407                  | -28.0                     | -28.0                          | 0.32 (1) | 10.00                     |                                |                                |
| N-M    | 0 / 2505                  | -28.0                     | -28.0                          | 0.49 (1) | 10.00                     |                                |                                |
| M-L    | 0 / 2505                  | -28.0                     | -28.0                          | 0.49 (1) | 10.00                     |                                |                                |
| L-K    | 0 / 1407                  | -28.0                     | -28.0                          | 0.32 (1) | 10.00                     |                                |                                |
| K-J    | 0 / 0                     | -28.0                     | -28.0                          | 0.16 (2) | 10.00                     |                                |                                |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |               |
|------------|---------------|
| TOP CH.    | LL = 38.3 PSF |
|            | DL = 3.0 PSF  |
| BOT CH.    | LL = 10.5 PSF |
|            | DL = 7.0 PSF  |
| TOTAL LOAD | = 58.7 PSF    |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, CBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.85")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")  
ALLOWABLE DEFL.(TL) = L/360 (0.85")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.73 (C-D:1), BC=0.49 (L-N:1), WB=0.33 (H-K:1), SS=0.33 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

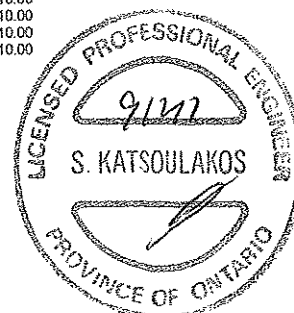
##### NAIL VALUES

| PLATE | GRIP (DRY) | SHEAR | SECTION |
|-------|------------|-------|---------|
| (PSI) | (PLI)      | (PLI) | (PLI)   |
| MT20  | 618        | 354   | 1687    |
|       | 822        | 2284  | 1656    |

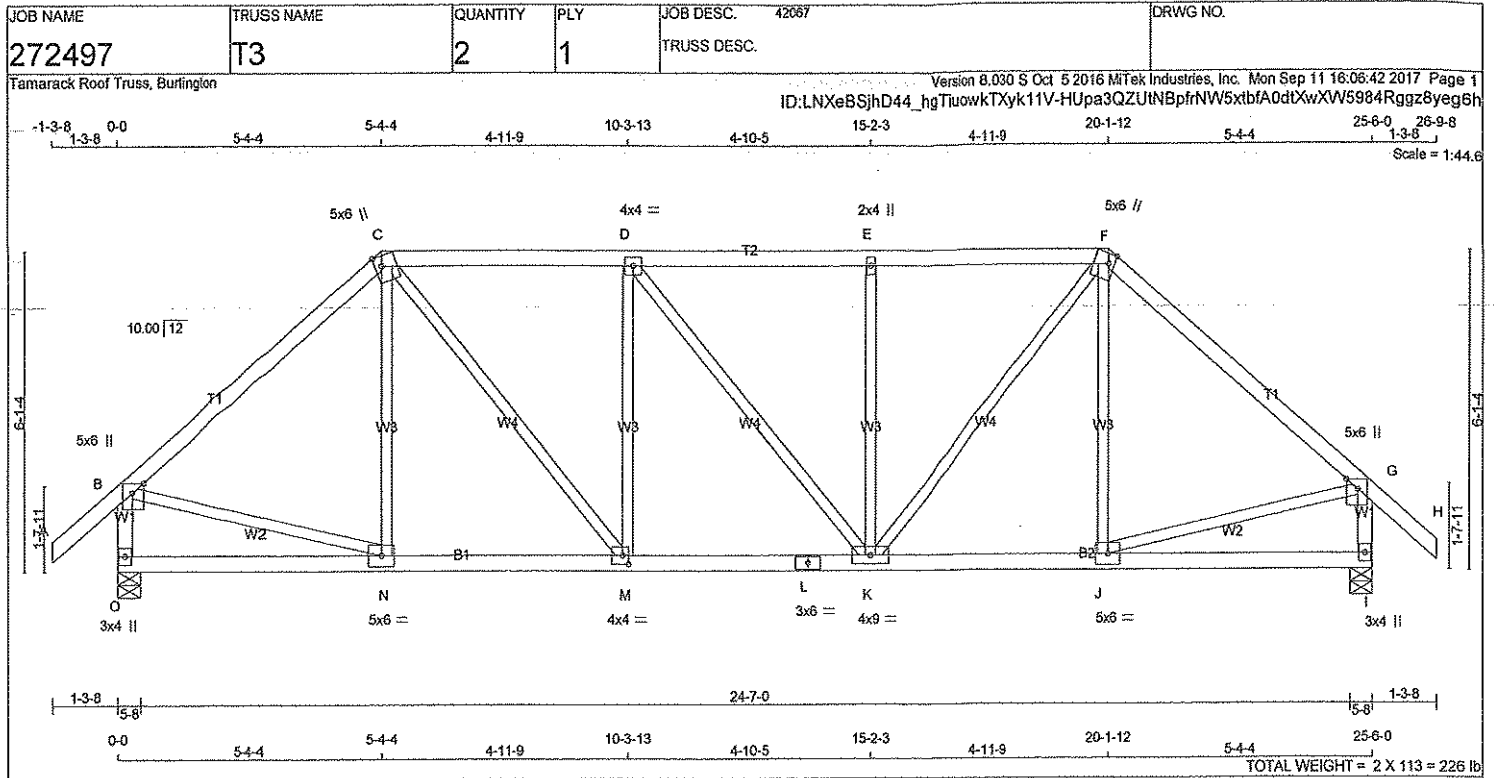
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.86 (L) (INPUT = 0.90)  
JSI METAL = 0.70 (M) (INPUT = 1.00)



DWG NO. TAM46018-17  
STRUCTURAL  
COMPONENT ONLY



**LUMBER**

N. L. G. A. RULES

| CHORDS          | SIZE | LUMBER   | DESCR. |
|-----------------|------|----------|--------|
| A - C           | 2x4  | DRY No.2 | SPF    |
| C - F           | 2x4  | DRY No.2 | SPF    |
| F - H           | 2x4  | DRY No.2 | SPF    |
| O - B           | 2x4  | DRY No.2 | SPF    |
| I - G           | 2x4  | DRY No.2 | SPF    |
| O - L           | 2x4  | DRY No.2 | SPF    |
| L - I           | 2x4  | DRY No.2 | SPF    |
| ALL WEBS EXCEPT | 2x3  | DRY No.2 | SPF    |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMW+p  | MT20   | 5.0 | 6.0 | Edge | 2.75 |
| C  | TTWW+m | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| D  | TMWW-t | MT20   | 4.0 | 4.0 |      |      |
| E  | TMW+w  | MT20   | 2.0 | 4.0 |      |      |
| F  | TTWW+m | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| G  | TMW+p  | MT20   | 5.0 | 6.0 | Edge | 2.75 |
| I  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| J  | BMWW-t | MT20   | 5.0 | 6.0 |      |      |
| K  | BMWW-t | MT20   | 4.0 | 9.0 |      |      |
| L  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| M  | BMWW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| N  | BMWW-t | MT20   | 5.0 | 6.0 |      |      |
| O  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| O  | 2084                    | 0    | 2084                            | 0    | 5-8       | 5-8      |
| I  | 2084                    | 0    | 2084                            | 0    | 5-8       | 5-8      |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED |          | MAX/MIN. COMPONENT REACTIONS |       | WIND  | DEAD    | SOIL  |
|----|--------------------|----------|------------------------------|-------|-------|---------|-------|
|    | SNOW               | LIVE     | PERM. LIVE                   | WIND  |       |         |       |
| O  | 1612               | 1081 / 0 | 268 / 0                      | 0 / 0 | 0 / 0 | 263 / 0 | 0 / 0 |
| I  | 1612               | 1081 / 0 | 268 / 0                      | 0 / 0 | 0 / 0 | 263 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, I

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.92 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                                 |                                 |                         |                          | WEBS  |                                 |                  |  |  |
|--------|---------------------------------|---------------------------------|-------------------------|--------------------------|-------|---------------------------------|------------------|--|--|
| MEMB.  | MAX. FACTORED<br>FORCE<br>(LBS) | FACTORED<br>VERT. LOAD<br>(PLF) | LC1<br>MAX.<br>CSI (LC) | MAX.<br>UNBRAC<br>LENGTH | MEMB. | MAX. FACTORED<br>FORCE<br>(LBS) | MAX.<br>CSI (LC) |  |  |
| FR-TO  |                                 | FROM TO                         |                         |                          | FR-TO |                                 |                  |  |  |
| A-B    | 0 / 54                          | -122.2 -122.2                   | 0.17 (1)                | 10.00                    | N-C   | -173 / 159                      | 0.10 (1)         |  |  |
| B-C    | -1849 / 0                       | -122.2 -122.2                   | 0.79 (1)                | 3.92                     | C-M   | 0 / 1024                        | 0.23 (1)         |  |  |
| C-D    | -2080 / 0                       | -122.2 -122.2                   | 0.49 (1)                | 4.15                     | M-D   | -847 / 0                        | 0.38 (1)         |  |  |
| D-E    | -2078 / 0                       | -122.2 -122.2                   | 0.49 (1)                | 4.15                     | D-K   | -3 / 0                          | 0.00 (1)         |  |  |
| E-F    | -2078 / 0                       | -122.2 -122.2                   | 0.48 (1)                | 4.17                     | K-E   | -846 / 0                        | 0.38 (1)         |  |  |
| F-G    | -1849 / 0                       | -122.2 -122.2                   | 0.79 (1)                | 3.92                     | K-F   | 0 / 1020                        | 0.23 (1)         |  |  |
| G-H    | 0 / 54                          | -122.2 -122.2                   | 0.17 (1)                | 10.00                    | J-F   | -171 / 159                      | 0.10 (1)         |  |  |
| O-B    | -2022 / 0                       | 0.0 0.0                         | 0.22 (1)                | 5.94                     | B-N   | 0 / 1457                        | 0.33 (1)         |  |  |
| I-G    | -2023 / 0                       | 0.0 0.0                         | 0.22 (1)                | 5.94                     | J-G   | 0 / 1458                        | 0.33 (1)         |  |  |
| O-N    | 0 / 0                           | -28.0 -28.0                     | 0.19 (3)                | 10.00                    |       |                                 |                  |  |  |
| N-M    | 0 / 1414                        | -28.0 -28.0                     | 0.34 (2)                | 10.00                    |       |                                 |                  |  |  |
| M-L    | 0 / 2081                        | -28.0 -28.0                     | 0.39 (1)                | 10.00                    |       |                                 |                  |  |  |
| L-K    | 0 / 2081                        | -28.0 -28.0                     | 0.39 (1)                | 10.00                    |       |                                 |                  |  |  |
| K-J    | 0 / 1415                        | -28.0 -28.0                     | 0.34 (2)                | 10.00                    |       |                                 |                  |  |  |
| J-I    | 0 / 0                           | -28.0 -28.0                     | 0.19 (3)                | 10.00                    |       |                                 |                  |  |  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

TOP CH. LL = 38.3 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 58.7 PSF

**SPACING = 24.0 IN. C/C**

**LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12**

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55 % OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.85")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")  
ALLOWABLE DEFL.(TL) = L/360 (0.85")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.79 (F-G:1), BC=0.39 (K-M:1), WB=0.38 (D-M:1), SSI=0.28 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**

| PLATE | GRIP (DRY) | SHEAR | SECTION            |
|-------|------------|-------|--------------------|
| (PSI) | (PLI)      | (PLI) |                    |
| MT20  | 618        | 354   | 1667 822 2284 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

ISI GRIP= 0.89 (C) (INPUT = 0.90)  
ISI METAL= 0.57 (L) (INPUT = 1.00)



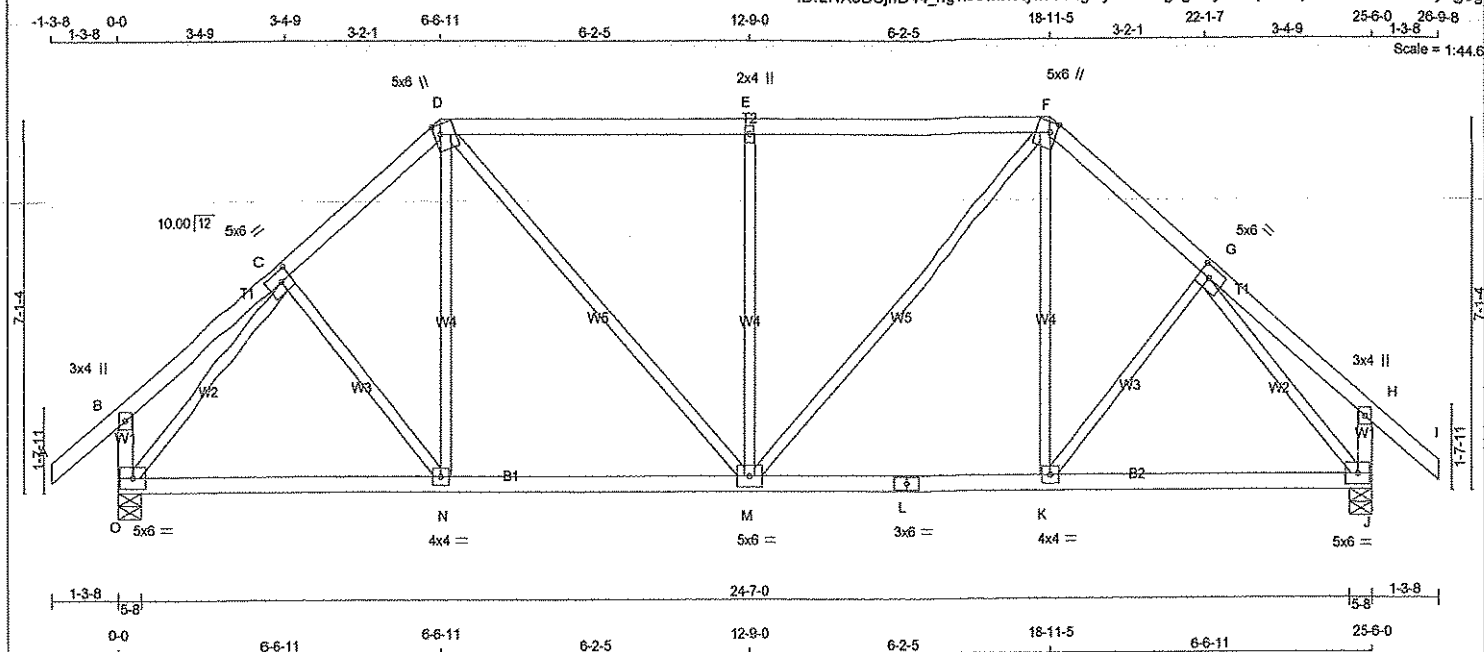
DWG NO. TAN46019-17  
STRUCTURAL  
COMPONENT ONLY

|                           |                         |                      |                 |                    |          |
|---------------------------|-------------------------|----------------------|-----------------|--------------------|----------|
| JOB NAME<br><b>272497</b> | TRUSS NAME<br><b>T4</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br>42067 | DRWG NO. |
|---------------------------|-------------------------|----------------------|-----------------|--------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 Mitek Industries, Inc. Mon Sep 11 16:06:43 2017 Page 1

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TOTAL WEIGHT = 2 X 116 = 232 lb

#### LUMBER

##### N. L. G. A. RULES

| CHORDS | SIZE | LUMBER   | DESCR. |
|--------|------|----------|--------|
| A - D  | 2x4  | DRY No.2 | SPF    |
| D - F  | 2x4  | DRY No.2 | SPF    |
| F - I  | 2x4  | DRY No.2 | SPF    |
| O - B  | 2x4  | DRY No.2 | SPF    |
| J - H  | 2x4  | DRY No.2 | SPF    |
| O - L  | 2x4  | DRY No.2 | SPF    |
| L - J  | 2x4  | DRY No.2 | SPF    |

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT DRY: SEASONED LUMBER

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMVW-I  | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| D  | TTWW+m  | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| E  | TMV+w   | MT20   | 2.0 | 4.0 |      |      |
| F  | TTWW+m  | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| G  | TMVW-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| H  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| J  | BMVW1-t | MT20   | 5.0 | 6.0 |      |      |
| K  | BMVW-I  | MT20   | 4.0 | 4.0 |      |      |
| L  | BS-I    | MT20   | 3.0 | 6.0 |      |      |
| M  | BMVW1-t | MT20   | 5.0 | 6.0 |      |      |
| N  | BMVW-I  | MT20   | 4.0 | 4.0 |      |      |
| O  | BMVW1-t | MT20   | 5.0 | 6.0 |      |      |

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

##### BEARINGS

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----|----------------|------------------|-------|------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT | VERT           | HORZ             | DOWN  | HORZ |
| O  | 2084           | 0                | 2084  | 0    |
| J  | 2084           | 0                | 2084  | 0    |

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS | DEAD    | SOIL       |
|----|-----------|------------------------------|---------|------------|
|    | COMBINED  | SNOW                         | LIVE    | PERM. LIVE |
| O  | 1612      | 1081 / 0                     | 268 / 0 | 0 / 0      |
| J  | 1612      | 1081 / 0                     | 268 / 0 | 0 / 0      |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, J

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.03 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

##### LOADING

TOTAL LOAD CASES: (4)

|       | CHORDS        | WEBS                   |
|-------|---------------|------------------------|
|       | MAX. FACTORED | MAX. FACTORED          |
| MEMB. | FORCE (LBS)   | FORCE (LBS)            |
| FR-TO | FROM TO       | LENGTH FR-TO           |
| A-B   | 0 / 54        | -122.2 -122.2 0.17 (1) |
| B-C   | 0 / 27        | -122.2 -122.2 0.19 (1) |
| C-D   | -1843 / 0     | -122.2 -122.2 0.19 (1) |
| D-E   | -1884 / 0     | -122.2 -122.2 0.66 (1) |
| E-F   | -1884 / 0     | -122.2 -122.2 0.66 (1) |
| F-G   | -1843 / 0     | -122.2 -122.2 0.19 (1) |
| G-H   | 0 / 27        | -122.2 -122.2 0.19 (1) |
| H-I   | 0 / 54        | -122.2 -122.2 0.17 (1) |
| O-B   | -325 / 0      | 0.0 0.0 0.03 (1)       |
| J-H   | -325 / 0      | 0.0 0.0 0.03 (1)       |
| O-N   | 0 / 1364      | -28.0 -28.0 0.43 (2)   |
| N-M   | 0 / 1393      | -28.0 -28.0 0.44 (2)   |
| M-L   | 0 / 1393      | -28.0 -28.0 0.44 (2)   |
| L-K   | 0 / 1393      | -28.0 -28.0 0.44 (2)   |
| K-J   | 0 / 1364      | -28.0 -28.0 0.43 (2)   |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |               |
|------------|---------------|
| TOP CH.    | LL = 38.3 PSF |
|            | DL = 3.0 PSF  |
| BOT CH.    | LL = 10.5 PSF |
|            | DL = 7.0 PSF  |
| TOTAL LOAD | = 58.7 PSF    |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, CBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.85")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.09")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.85")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.14")

CSI: TC=0.68 (D-E:1), BC=0.44 (K-M:2), WB=0.93 (C-O:1), SSI=0.37 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

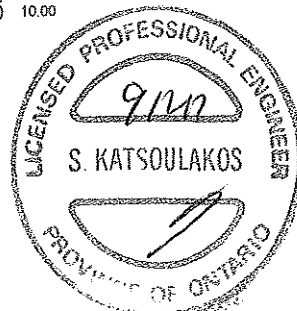
##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
|       | (PSI)     | (PLI) | (PLI)   |
| MT20  | 618       | 354   | 1667    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (J) (INPUT = 0.90)  
JSI METAL= 0.53 (G) (INPUT = 1.00)



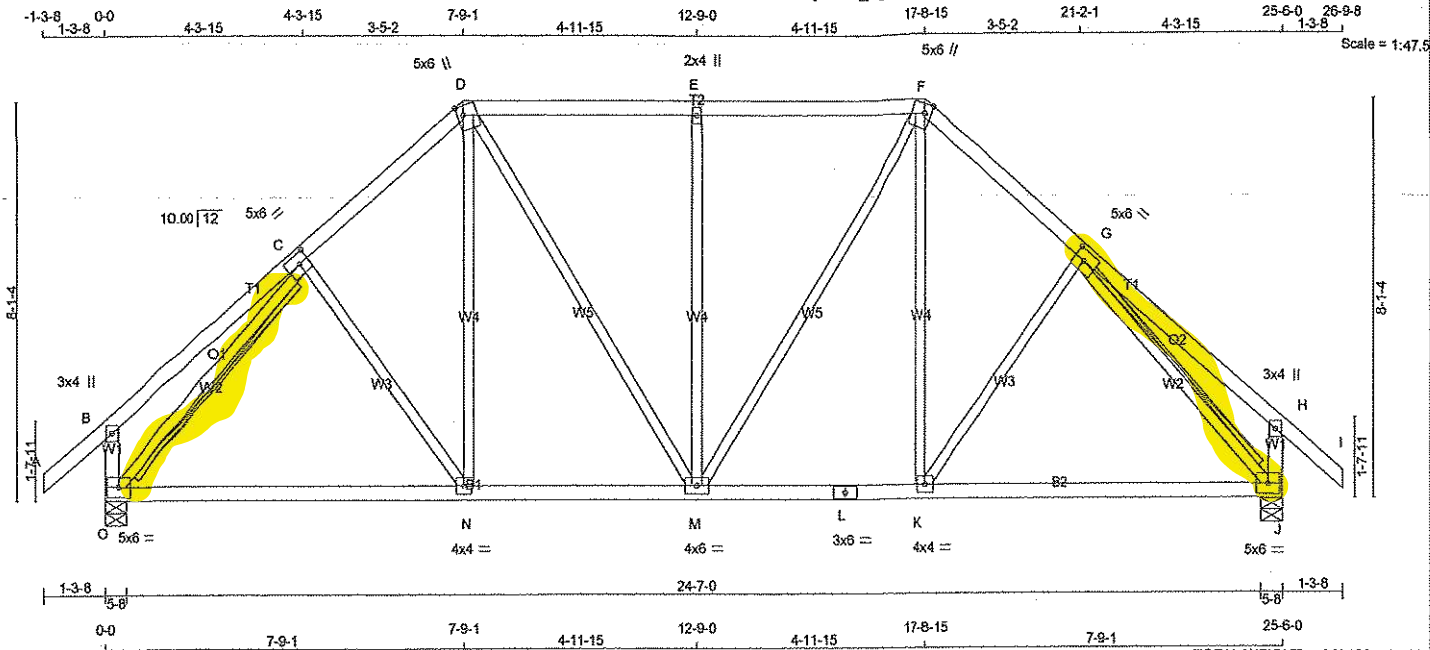
DWG NO. TAM 4602-17  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 42067 | DRWG NO. |
| 272497   | T5         | 2        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 MiTek Industries, Inc. Mon Sep 11 16:08:43 2017 Page 1

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TOTAL WEIGHT = 2 X 123 = 245 lb

#### LUMBER

| N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|-------------------|--------|------|--------|--------|
| A - D             | 2x4    | DRY  | No.2   | SPF    |
| D - F             | 2x4    | DRY  | No.2   | SPF    |
| F - I             | 2x4    | DRY  | No.2   | SPF    |
| O - B             | 2x4    | DRY  | No.2   | SPF    |
| J - H             | 2x4    | DRY  | No.2   | SPF    |
| O - L             | 2x4    | DRY  | No.2   | SPF    |
| L - J             | 2x4    | DRY  | No.2   | SPF    |

|          |     |     |      |     |
|----------|-----|-----|------|-----|
| ALL WEBS | 2x3 | DRY | No.2 | SPF |
| EXCEPT   |     |     |      |     |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWW-l  | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| D  | TTWW+m  | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| E  | TMV+w   | MT20   | 2.0 | 4.0 |      |      |
| F  | TTWW+m  | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| G  | TMWW-l  | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| H  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| J  | BMVW1-l | MT20   | 5.0 | 6.0 |      |      |
| K  | BMWW-l  | MT20   | 4.0 | 4.0 |      |      |
| L  | BS-l    | MT20   | 3.0 | 6.0 |      |      |
| M  | BMWW-l  | MT20   | 4.0 | 6.0 |      |      |
| N  | BMWW-l  | MT20   | 4.0 | 4.0 |      |      |
| O  | BMVW1-l | MT20   | 5.0 | 6.0 |      |      |

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

##### BEARINGS

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----|----------------|------------------|-------|------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT | VERT           | HORZ             | DOWN  | HORZ |
| O  | 2084           | 0                | 2084  | 0    |
| J  | 2084           | 0                | 2084  | 0    |

##### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX      | MIN     | COMPONENT REACTIONS |
|----|----------|----------|---------|---------------------|
|    | COMBINED | SNOW     | LIVE    | PERM.LIVE           |
| O  | 1812     | 1081 / 0 | 268 / 0 | 0 / 0               |
| J  | 1812     | 1081 / 0 | 268 / 0 | 0 / 0               |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, J

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.74 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

2x4 DRY SPF No.2 T-BRACE AT C-O, G-J

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                        | WEBS  |                           |                        |  |
|--------|---------------------------|---------------------------|------------------------|-------|---------------------------|------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |  |
| FR-TO  |                           |                           |                        | FR-TO |                           |                        |  |
| A-B    | 0 / 54                    | -122.2                    | -122.2 0.17 (1)        | C-N   | -117 / 88                 | 0.07 (1)               |  |
| B-C    | 0 / 32                    | -122.2                    | -122.2 0.29 (1)        | N-D   | 0 / 378                   | 0.09 (2)               |  |
| C-D    | -1793 / 0                 | -122.2                    | -122.2 0.26 (1)        | D-M   | 0 / 484                   | 0.11 (1)               |  |
| D-E    | -1609 / 0                 | -122.2                    | -122.2 0.42 (1)        | M-E   | -742 / 0                  | 0.94 (1)               |  |
| E-F    | -1609 / 0                 | -122.2                    | -122.2 0.42 (1)        | M-F   | 0 / 484                   | 0.11 (1)               |  |
| F-G    | -1793 / 0                 | -122.2                    | -122.2 0.26 (1)        | K-F   | 0 / 378                   | 0.09 (2)               |  |
| G-H    | 0 / 32                    | -122.2                    | -122.2 0.29 (1)        | K-G   | -117 / 88                 | 0.07 (1)               |  |
| H-I    | 0 / 54                    | -122.2                    | -122.2 0.17 (1)        | O-C   | -2150 / 0                 | 0.65 (1)               |  |
| O-B    | -375 / 0                  | 0.0                       | 0.0 0.04 (1)           | G-J   | -2150 / 0                 | 0.65 (1)               |  |
| J-H    | -375 / 0                  | 0.0                       | 0.0 0.04 (1)           |       |                           |                        |  |
| O-N    | 0 / 1415                  | -28.0                     | -28.0 0.52 (2)         |       |                           |                        |  |
| N-M    | 0 / 1348                  | -28.0                     | -28.0 0.52 (2)         |       |                           |                        |  |
| M-L    | 0 / 1348                  | -28.0                     | -28.0 0.52 (2)         |       |                           |                        |  |
| L-K    | 0 / 1348                  | -28.0                     | -28.0 0.52 (2)         |       |                           |                        |  |
| K-J    | 0 / 1415                  | -28.0                     | -28.0 0.52 (2)         |       |                           |                        |  |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 38.3 | PSF |
|            | DL | = | 3.0  | PSF |
| BOT CH.    | LL | = | 10.5 | PSF |
|            | DL | = | 7.0  | PSF |
| TOTAL LOAD |    | = | 58.7 | PSF |

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 088-09
- TPIC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.85")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")  
ALLOWABLE DEFL.(TL)= L/360 (0.85")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.26")

CSI: TC=0.42 (D-E:1), BC=0.52 (K-M:2), WB=0.94 (E-M:1), SSI=0.29 (E-F:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

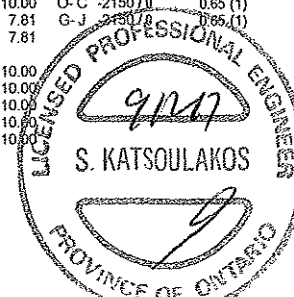
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1687 822 2284 1856

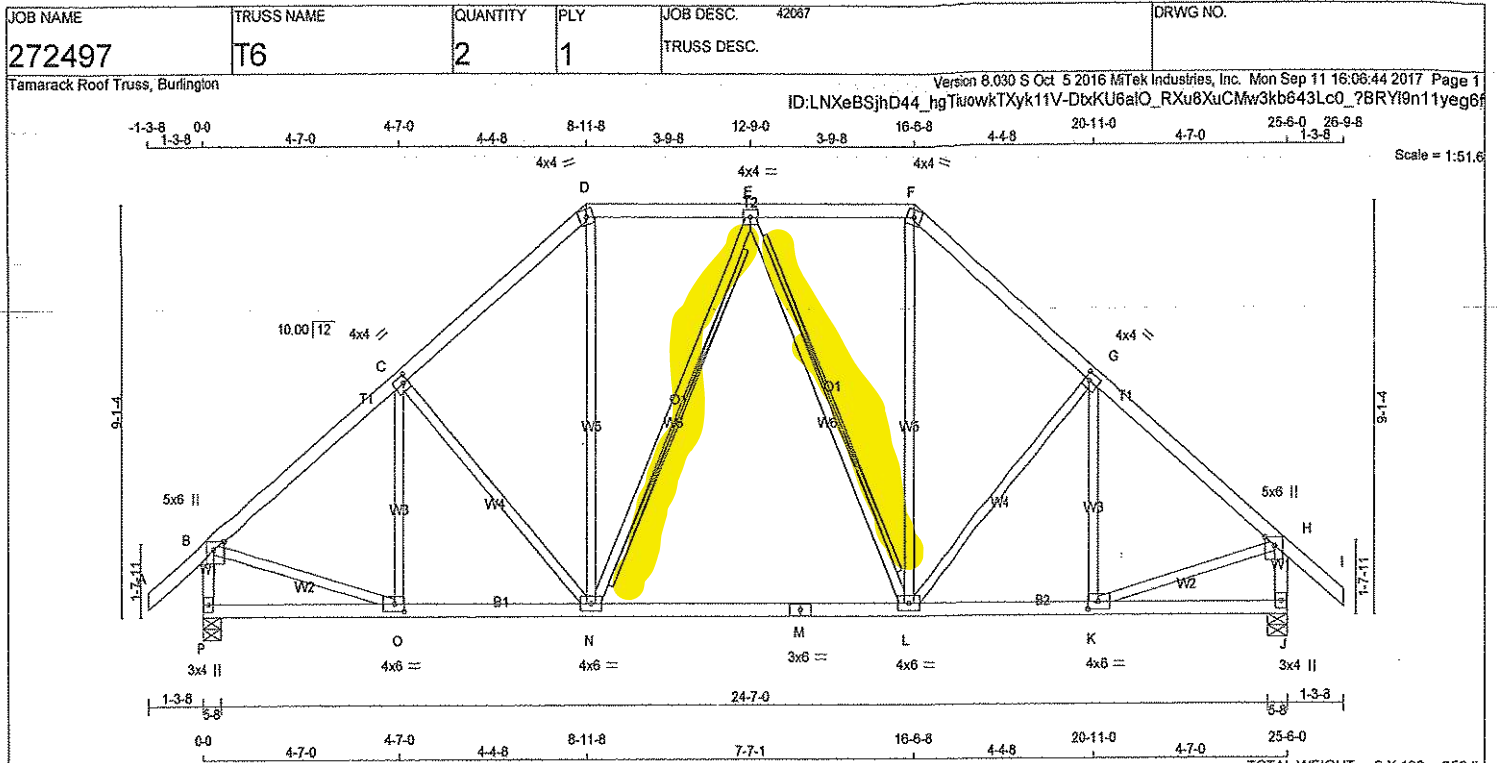
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (O) (INPUT = 0.90 )  
JSI METAL= 0.53 (G) (INPUT = 1.00 )



DWG NO. TAN 46021-17  
STRUCTURAL  
COMPONENT ONLY



**LUMBER**

N. L. G. A. RULES

| CHORDS | SIZE | LUMBER   | DESCR. |
|--------|------|----------|--------|
| A - D  | 2x4  | DRY No.2 | SPF    |
| D - F  | 2x4  | DRY No.2 | SPF    |
| F - I  | 2x4  | DRY No.2 | SPF    |
| P - B  | 2x4  | DRY No.2 | SPF    |
| J - H  | 2x4  | DRY No.2 | SPF    |
| P - M  | 2x4  | DRY No.2 | SPF    |
| M - J  | 2x4  | DRY No.2 | SPF    |

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT  
DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW+p | MT20   | 5.0 | 6.0 | Edge | 2.75 |
| C  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| D  | TTW-m  | MT20   | 4.0 | 4.0 |      |      |
| E  | TMVW-t | MT20   | 4.0 | 4.0 |      |      |
| F  | TTW-m  | MT20   | 4.0 | 4.0 |      |      |
| G  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| H  | TMVW+p | MT20   | 5.0 | 6.0 | Edge | 2.75 |
| J  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| K  | BMVW-t | MT20   | 4.0 | 6.0 | 2.00 | 2.75 |
| L  | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| M  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| N  | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| O  | BMVW-t | MT20   | 4.0 | 6.0 | 2.00 | 2.75 |
| P  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| P  | 2084                    | 0    | 2084                            | 0    | 5-8       | 5-8      |
| J  | 2084                    | 0    | 2084                            | 0    | 5-8       | 5-8      |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE |          | MAX/MIN COMPONENT REACTIONS |           | WIND  | DEAD    | SOIL  |
|----|-----------|----------|-----------------------------|-----------|-------|---------|-------|
|    | COMBINED  | SNOW     | LIVE                        | PERM LIVE |       |         |       |
| P  | 1612      | 1081 / 0 | 268 / 0                     | 0 / 0     | 0 / 0 | 263 / 0 | 0 / 0 |
| J  | 1612      | 1081 / 0 | 268 / 0                     | 0 / 0     | 0 / 0 | 263 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) P, J

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.55 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

2x4 DRY SPF No.2 T-BRACE AT E-N, E-L

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                            | WEBS  |                           |                            |  |
|--------|---------------------------|---------------------------|----------------------------|-------|---------------------------|----------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC1) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC1) |  |
| FR-TO  |                           |                           |                            | FR-TO |                           |                            |  |
| A-B    | 0 / 54                    | -122.2 -122.2             | 0.17 (1)                   | O-C   | -300 / 59                 | 0.13 (1)                   |  |
| B-C    | -1870 / 0                 | -122.2 -122.2             | 0.36 (1)                   | C-N   | -295 / 0                  | 0.25 (1)                   |  |
| C-D    | -1705 / 0                 | -122.2 -122.2             | 0.35 (1)                   | N-D   | 0 / 680                   | 0.15 (1)                   |  |
| D-E    | -1282 / 0                 | -122.2 -122.2             | 0.23 (1)                   | E-L   | -300 / 0                  | 0.22 (1)                   |  |
| E-F    | -1282 / 0                 | -122.2 -122.2             | 0.23 (1)                   | L-F   | 0 / 680                   | 0.15 (1)                   |  |
| F-G    | -1705 / 0                 | -122.2 -122.2             | 0.35 (1)                   | G-H   | -1870 / 0                 | 0.25 (1)                   |  |
| G-H    | -1870 / 0                 | -122.2 -122.2             | 0.36 (1)                   | H-I   | 0 / 54                    | 0.13 (1)                   |  |
| H-I    | 0 / 54                    | -122.2 -122.2             | 0.17 (1)                   | I-J   | -2027 / 0                 | 0.22 (1)                   |  |
| P-B    | -2027 / 0                 | 0.0                       | 0.0 0.22 (1)               | J-H   | -2027 / 0                 | 0.22 (1)                   |  |
| J-H    | -2027 / 0                 | 0.0                       | 0.0 0.22 (1)               |       |                           |                            |  |
| P-O    | 0 / 0                     | -28.0 -28.0               | 0.13 (2)                   |       |                           |                            |  |
| O-N    | 0 / 1468                  | -28.0 -28.0               | 0.39 (2)                   |       |                           |                            |  |
| N-M    | 0 / 1398                  | -28.0 -28.0               | 0.38 (2)                   |       |                           |                            |  |
| M-L    | 0 / 1398                  | -28.0 -28.0               | 0.38 (2)                   |       |                           |                            |  |
| L-K    | 0 / 1468                  | -28.0 -28.0               | 0.39 (2)                   |       |                           |                            |  |
| K-J    | 0 / 0                     | -28.0 -28.0               | 0.13 (2)                   |       |                           |                            |  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 38.3 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 58.7 PSF

**SPACING = 24.0 IN. C/C**

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.85")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")  
ALLOWABLE DEFL.(TL) = L/360 (0.85")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI: TC=0.36 (G-H:1), BC=0.39 (K-L:2), WB=0.34 (H-K:1), SS=0.22 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

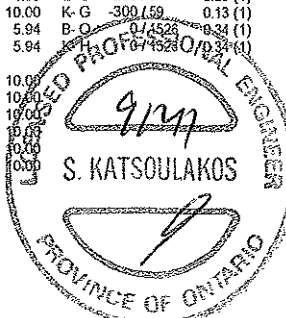
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

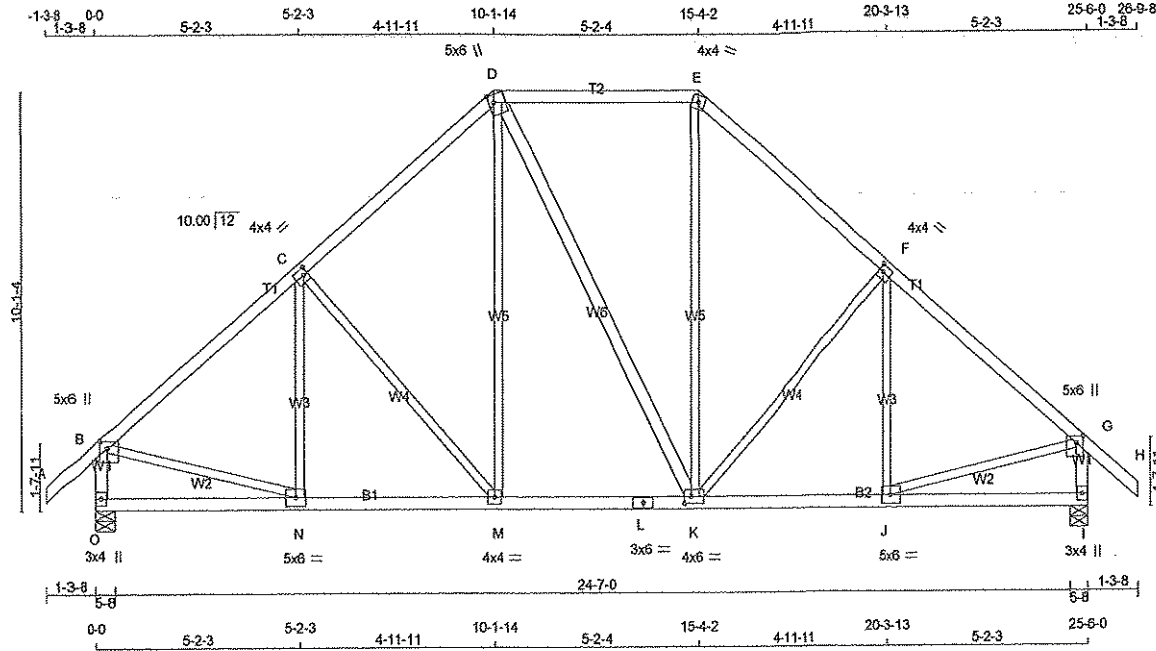
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (B) (INPUT = 0.90)  
JSI METAL= 0.51 (M) (INPUT = 1.00)



DRWG NO. TAM 4602-17  
STRUCTURAL  
COMPONENT ONLY

Tamarack Roof Truss, Burlington



| LUMBER                |        |      |        |
|-----------------------|--------|------|--------|
| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER |
| A - D                 | 2x4    | DRY  | No.2   |
| D - E                 | 2x4    | DRY  | No.2   |
| E - H                 | 2x4    | DRY  | No.2   |
| O - B                 | 2x4    | DRY  | No.2   |
| I - G                 | 2x4    | DRY  | No.2   |
| O - L                 | 2x4    | DRY  | No.2   |
| L - I                 | 2x4    | DRY  | No.2   |
| ALL WEBS              | 2x3    | DRY  | No.2   |
| EXCEPT                | D - K  | 2x4  | DRY    |
| DRY: SEASONED LUMBER. |        |      |        |

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |             |                |
| O  | 2084                    | 0    | 2084                            | 0    | 5-8         | 5-8            |
| I  | 2084                    | 0    | 2084                            | 0    | 5-8         | 5-8            |

##### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED |          | MAX /MIN. COMPONENT REACTIONS |       | WIND PERM. LIVE | DEAD    | SOIL  |
|----|--------------------|----------|-------------------------------|-------|-----------------|---------|-------|
|    | SNOW               | LIVE     | SNOW                          | LIVE  |                 |         |       |
| O  | 1612               | 1081 / 0 | 268 / 0                       | 0 / 0 | 0 / 0           | 263 / 0 | 0 / 0 |
| I  | 1612               | 1081 / 0 | 268 / 0                       | 0 / 0 | 0 / 0           | 263 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, I

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.39 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                 | WEBS                       |       |                           |                            |
|--------|---------------------------|---------------------------|-----------------|----------------------------|-------|---------------------------|----------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX (LC)    | MAX. UNBRACED LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH FR-TO |
|        |                           |                           |                 |                            |       |                           |                            |
| A-B    | 0 / 54                    | -122.2                    | -122.2 0.17 (1) | 10.00                      | N-C   | -215 / 144                | 0.12 (1)                   |
| B-C    | -1886 / 0                 | -122.2                    | -122.2 0.48 (1) | 4.39                       | C-M   | -431 / 0                  | 0.50 (1)                   |
| C-D    | -1610 / 0                 | -122.2                    | -122.2 0.45 (1) | 4.71                       | M-D   | 0 / 456                   | 0.10 (1)                   |
| D-E    | -1202 / 0                 | -122.2                    | -122.2 0.44 (1) | 5.26                       | D-K   | 0 / 2                     | 0.00 (1)                   |
| E-F    | -1611 / 0                 | -122.2                    | -122.2 0.45 (1) | 4.71                       | K-E   | 0 / 459                   | 0.10 (1)                   |
| F-G    | -1886 / 0                 | -122.2                    | -122.2 0.48 (1) | 4.39                       | K-F   | -429 / 0                  | 0.49 (1)                   |
| G-H    | 0 / 54                    | -122.2                    | -122.2 0.17 (1) | 10.00                      | J-F   | -218 / 143                | 0.12 (1)                   |
| O-B    | -2024 / 0                 | 0.0                       | 0.0 0.22 (1)    | 5.94                       | B-N   | 0 / 1532                  | 0.34 (1)                   |
| I-G    | -2024 / 0                 | 0.0                       | 0.0 0.22 (1)    | 5.94                       | J-G   | 0 / 1531                  | 0.34 (1)                   |
| O-N    | 0 / 0                     | -28.0                     | -28.0 0.18 (3)  | 10.00                      |       |                           |                            |
| N-M    | 0 / 1485                  | -28.0                     | -28.0 0.33 (1)  | 10.00                      |       |                           |                            |
| M-L    | 0 / 1201                  | -28.0                     | -28.0 0.27 (1)  | 10.00                      |       |                           |                            |
| L-K    | 0 / 1201                  | -28.0                     | -28.0 0.27 (1)  | 10.00                      |       |                           |                            |
| K-J    | 0 / 1485                  | -28.0                     | -28.0 0.32 (1)  | 10.00                      |       |                           |                            |
| J-I    | 0 / 0                     | -28.0                     | -28.0 0.18 (3)  | 10.00                      |       |                           |                            |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 38.3 | PSF |
|            | DL = 3.0  | PSF |
| BOT CH.    | LL = 10.5 | PSF |
|            | DL = 7.0  | PSF |
| TOTAL LOAD | = 58.7    | PSF |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.85")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")  
ALLOWABLE DEFL.(TL) = L/360 (0.85")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.48 (B-C:1), BC=0.33 (M-N:1), WB=0.50 (C-M:1), SSI=0.25 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

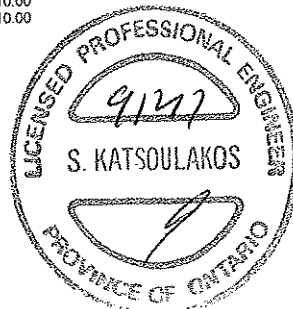
##### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-----------------|-------------|---------------|
| MAX             | MIN         | MAX           |
| MT20            | 618         | 354           |
|                 | 1667        | 822           |
|                 | 2284        | 1656          |

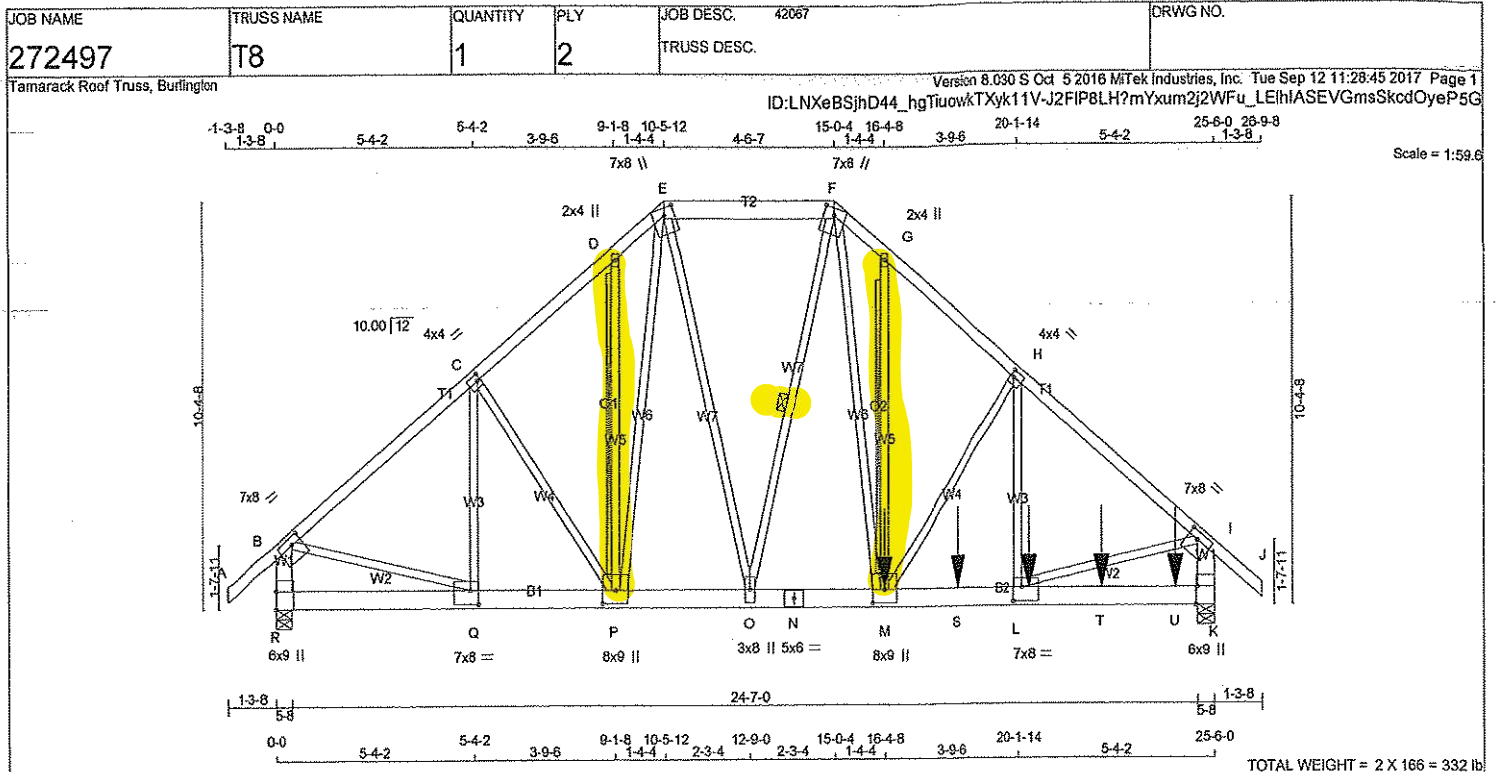
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90)  
JSI METAL= 0.43 (B) (INPUT = 1.00)



DRWG NO. TAM46023-17  
STRUCTURAL  
COMPONENT ONLY



| LUMBER            |        |      |        |
|-------------------|--------|------|--------|
| N. L. G. A. RULES | CHOROS | SIZE | LUMBER |
| A - E             | 2x4    | DRY  | No.2   |
| E - F             | 2x6    | DRY  | No.2   |
| F - J             | 2x4    | DRY  | No.2   |
| R - B             | 2x6    | DRY  | No.2   |
| K - I             | 2x6    | DRY  | No.2   |
| R - N             | 2x6    | DRY  | No.2   |
| N - K             | 2x6    | DRY  | No.2   |

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT

DRY: SEASONED LUMBER

DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

| CHORDS #ROWS                            | SURFACE SPACING (IN) | LOAD (PLF)   |
|-----------------------------------------|----------------------|--------------|
| TOP CHORDS: (0.122"x3") SPIRAL NAILS    |                      |              |
| A-E                                     | 12                   | TOP          |
| F-J                                     | 12                   | TOP          |
| E-F                                     | 12                   | TOP          |
| R-B                                     | 12                   | TOP          |
| K-I                                     | 12                   | TOP          |
| BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS |                      |              |
| R-N                                     | 12                   | TOP          |
| N-K                                     | 12                   | SIDE (183.1) |
| WEBS: (0.122"x3") SPIRAL NAILS          |                      |              |
| H-L                                     | 6                    | SIDE (93.7)  |
| M-G                                     | 6                    | SIDE (516.9) |
| M-F                                     | 6                    | SIDE (586.8) |
| 2x3                                     | 1                    |              |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERRING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-I | MT20   | 7.0 | 8.0 | 2.25 | 3.25 |
| C  | TMVW-I | MT20   | 4.0 | 4.0 | 2.00 | 1.00 |
| D  | TMVW-I | MT20   | 2.0 | 4.0 |      |      |
| E  | TTVW+M | MT20   | 7.0 | 8.0 | 2.25 | 3.25 |
| F  | TTVW+M | MT20   | 7.0 | 8.0 | 2.25 | 3.25 |
| G  | TMVW-I | MT20   | 2.0 | 4.0 |      |      |
| H  | TMVW-I | MT20   | 4.0 | 4.0 | 2.00 | 1.00 |
| I  | TMVW-I | MT20   | 7.0 | 8.0 | 2.25 | 3.25 |
| K  | BMV1+I | MT20   | 6.0 | 9.0 | Edge | 0.50 |
| L  | BMVW-I | MT20   | 7.0 | 8.0 | 4.25 | 2.75 |
| M  | BMVW+I | MT20   | 8.0 | 9.0 | 4.25 | 4.00 |
| N  | BS-I   | MT20   | 5.0 | 6.0 |      |      |
| O  | BMVW-I | MT20   | 3.0 | 8.0 |      |      |
| P  | BMVW+I | MT20   | 8.0 | 9.0 | 4.25 | 4.00 |
| Q  | BMVW-I | MT20   | 7.0 | 8.0 | 4.25 | 2.75 |
| R  | BMV1+I | MT20   | 6.0 | 9.0 | 5.50 |      |

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

#### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| R  | 4537                    | 0                               | 4537      | 0        |
| K  | 8808                    | 0                               | 8808      | 0        |

#### UNFACTORED REACTIONS

|    | 1ST LCASE COMBINED | MAX/MIN. COMPONENT REACTIONS |          |            |       |          |       |
|----|--------------------|------------------------------|----------|------------|-------|----------|-------|
| JT |                    | SNOW                         | LIVE     | PERM. LIVE | WIND  | DEAD     | SOIL  |
| R  | 3502               | 2361 / 0                     | 574 / 0  | 0 / 0      | 0 / 0 | 588 / 0  | 0 / 0 |
| K  | 6791               | 4591 / 0                     | 1104 / 0 | 0 / 0      | 0 / 0 | 1696 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) R, K

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.84 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-O.  
2x4 DRY SPF No.2 T-BRACE AT D-P, G-M

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

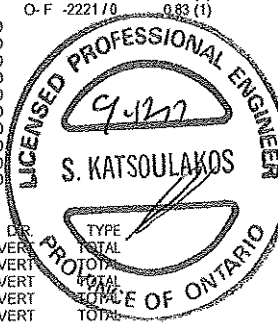
#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |              | WEBS     |                           |              |  |
|--------|---------------------------|---------------------------|--------------|----------|---------------------------|--------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX LC1 (LC) | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX LC1 (LC) |  |
| FR-TO  |                           | FROM TO                   |              | FR-TO    |                           |              |  |
| A-B    | 0 / 54                    | -122.2 -122.2             | 0.09 (1)     | Q-C      | -750 / 0                  | 0.21 (1)     |  |
| B-C    | -4889 / 0                 | -122.2 -122.2             | 0.45 (1)     | L-H      | 0 / 1651                  | 0.20 (1)     |  |
| C-D    | -5011 / 0                 | -122.2 -122.2             | 0.38 (1)     | B-Q      | 0 / 3882                  | 0.48 (1)     |  |
| D-E    | -4932 / 0                 | -122.2 -122.2             | 0.09 (1)     | L-I      | 0 / 6956                  | 0.66 (1)     |  |
| E-F    | -4386 / 0                 | -122.2 -122.2             | 0.14 (1)     | P-D      | -192 / 6                  | 0.08 (1)     |  |
| F-G    | -7352 / 0                 | -122.2 -122.2             | 0.31 (1)     | M-G      | 0 / 85                    | 0.01 (3)     |  |
| G-H    | -7576 / 0                 | -122.2 -122.2             | 0.52 (1)     | C-P      | 0 / 46                    | 0.01 (1)     |  |
| H-I    | -8788 / 0                 | -122.2 -122.2             | 0.90 (1)     | M-H      | -1859 / 0                 | 0.80 (1)     |  |
| I-J    | 0 / 54                    | -122.2 -122.2             | 0.09 (1)     | P-E      | 0 / 150                   | 0.02 (1)     |  |
| R-B    | -4456 / 0                 | 0.0                       | 0.16 (1)     | F-M      | 0 / 6439                  | 0.80 (1)     |  |
| K-I    | -7635 / 0                 | 0.0                       | 0.28 (1)     | E-O      | 0 / 2687                  | 0.33 (1)     |  |
|        |                           |                           |              | O-F      | -2221 / 0                 | 0.83 (1)     |  |
| R-Q    | 0 / 0                     | -28.0                     | -28.0        | 0.05 (2) | 10.00                     |              |  |
| Q-P    | 0 / 3785                  | -28.0                     | -28.0        | 0.27 (1) | 10.00                     |              |  |
| P-O    | 0 / 3788                  | -28.0                     | -28.0        | 0.40 (1) | 10.00                     |              |  |
| O-N    | 0 / 4880                  | -28.0                     | -28.0        | 0.48 (1) | 10.00                     |              |  |
| N-M    | 0 / 4880                  | -28.0                     | -28.0        | 0.48 (1) | 10.00                     |              |  |
| M-S    | 0 / 8781                  | -28.0                     | -28.0        | 0.84 (1) | 10.00                     |              |  |
| S-L    | 0 / 8781                  | -28.0                     | -28.0        | 0.84 (1) | 10.00                     |              |  |
| L-T    | 0 / 0                     | -28.0                     | -28.0        | 0.49 (1) | 10.00                     |              |  |
| T-U    | 0 / 0                     | -28.0                     | -28.0        | 0.49 (1) | 10.00                     |              |  |
| U-K    | 0 / 0                     | -28.0                     | -28.0        | 0.49 (1) | 10.00                     |              |  |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1   | MAX.  | MAX+ | FACE  | DIR. |
|----|--------|-------|-------|------|-------|------|
| L  | 20-5-4 | -1081 | -1081 | ---  | FRONT | VERT |
| M  | 18-4-8 | -4933 | -4933 | ---  | FRONT | VERT |
| S  | 18-5-4 | -1081 | -1081 | ---  | FRONT | VERT |
| T  | 22-5-4 | -1081 | -1081 | ---  | FRONT | VERT |
| U  | 24-5-4 | -1081 | -1081 | ---  | FRONT | VERT |



#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 38.3 | PSF |
|            | DL | = | 3.0  | PSF |
| BOT CH.    | LL | = | 10.5 | PSF |
|            | DL | = | 7.0  | PSF |
| TOTAL LOAD |    | = | 58.7 | PSF |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.85")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.15")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.85")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.23")

CSI: TC=0.90 (H-I), BC=0.84 (L-M), WB=0.86 (H-L), SSI=0.39 (K-L:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00  
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

#### NAIL VALUES

| PLATE GRIP (DRY) | SHEAR (PSI) | SECTION (PLI) |
|------------------|-------------|---------------|
| MAX MIN          | MAX MIN     | MAX MIN       |
| MT20             | 618 354     | 1667 822      |
|                  | 2284        | 1656          |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg

JSI GRIP= 0.89 (B) (INPUT = 0.90)  
JSI METAL= 0.85 (B) (INPUT = 1.00)

DWG NO. TAM46024-17  
STRUCTURAL  
COMPONENT ONLY

CONTINUED ON PAGE 2

|                    |                  |               |          |                                |          |
|--------------------|------------------|---------------|----------|--------------------------------|----------|
| JOB NAME<br>272497 | TRUSS NAME<br>T8 | QUANTITY<br>1 | PLY<br>2 | JOB DESC. 42067<br>TRUSS DESC. | DRWG NO. |
|--------------------|------------------|---------------|----------|--------------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 MiTek Industries, Inc. Tue Sep 12 11:28:45 2017 Page 2  
ID:LNxeBSjhD44 hgTluowkTXyk11V-J2FIP8LH?mYxum2j2WFu LEihlASEVGmsSkcdOyeP5G

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

**HANGERS NOTES**  
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 4932.7 lbs FACTORED DOWN AT 18'-5-4, 1061.0 lbs FACTORED DOWN AT 20'-5-4, AND 1061.0 lbs FACTORED DOWN AT 22'-5-4, AND 1061.0 lbs FACTORED DOWN AT 24'-5-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



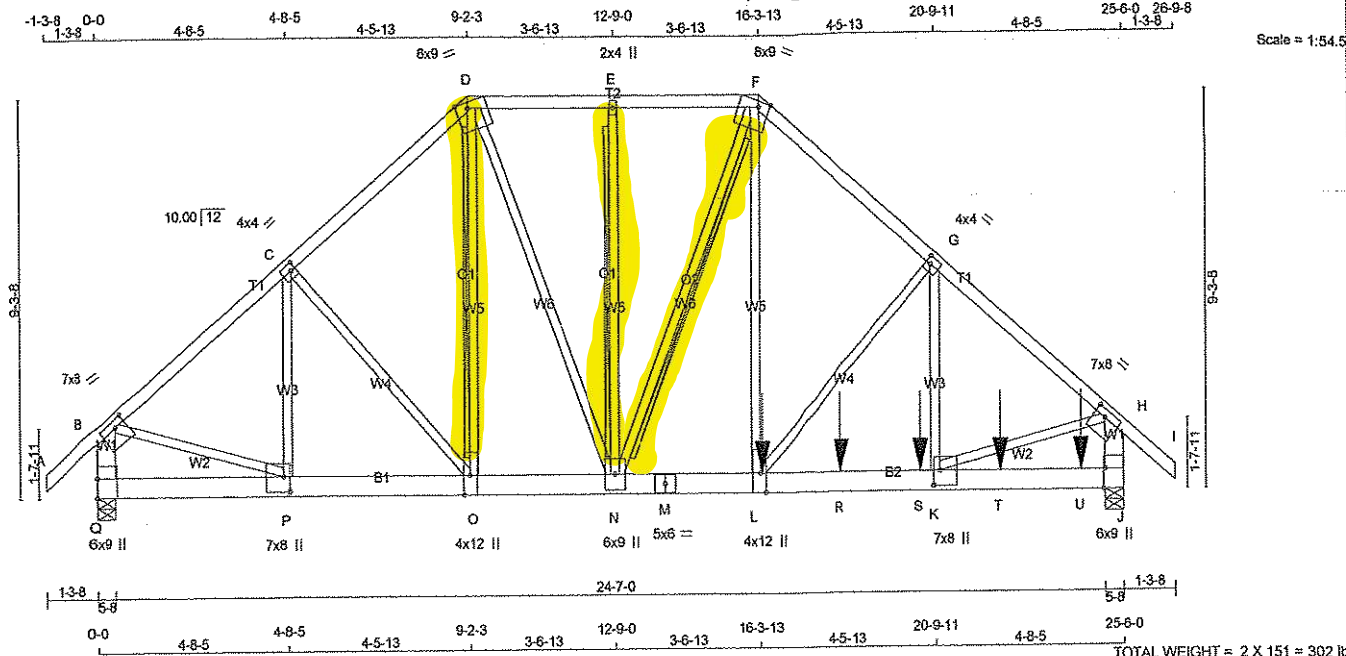
DWG NO. TAM4604-17  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 42067 | DRWG NO. |
| 272497   | T9         | 1        | 2   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 MTEK Industries, Inc. Mon Sep 11 16:08:45 2017 Page 1

ID:LNxBSjhD44 hgTuowkTXyk11V-i3UjISbN9IZOWI65m3RIHpeAgkrCjdbmPuKaTyeg6e



TOTAL WEIGHT = 2 X 151 = 302 lb

#### LUMBER

| N. L. G. A. RULES |     |      |      |        |       |
|-------------------|-----|------|------|--------|-------|
| CHORDS            |     | SIZE |      | LUMBER | DESCR |
| A - D             | 2x4 | DRY  | No.2 |        | SPF   |
| D - F             | 2x4 | DRY  | No.2 |        | SPF   |
| F - I             | 2x4 | DRY  | No.2 |        | SPF   |
| Q - B             | 2x6 | DRY  | No.2 |        | SPF   |
| J - H             | 2x6 | DRY  | No.2 |        | SPF   |
| Q - M             | 2x6 | DRY  | No.2 |        | SPF   |
| M - J             | 2x6 | DRY  | No.2 |        | SPF   |

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF)    |
|------------------------------------------|----------------------|--------------|
| TOP CHORDS : (0.122'X3") SPIRAL NAILS    |                      |              |
| A-D 1 12                                 |                      | TOP          |
| D-F 1 12                                 |                      | TOP          |
| F-I 1 12                                 |                      | TOP          |
| Q-B 2 12                                 |                      | TOP          |
| J-H 2 12                                 |                      | TOP          |
| BOTTOM CHORDS : (0.122'X3") SPIRAL NAILS |                      |              |
| Q-M 2 12                                 |                      | TOP          |
| M-J 2 12                                 |                      | SIDE(183.1)  |
| WEBS : (0.122'X3") SPIRAL NAILS          |                      |              |
| L-F 1 4                                  |                      | SIDE(1282.4) |
| 2x3 1 6                                  |                      |              |
| O-D 1 4                                  |                      |              |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT LIDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

#### PLATES (table is in inches)

| JT | TYPE     | PLATES | W   | LEN  | Y    | X    |
|----|----------|--------|-----|------|------|------|
| B  | TMWW-I   | MT20   | 7.0 | 8.0  | 2.00 | 3.25 |
| C  | TMWW-I   | MT20   | 4.0 | 4.0  | 2.00 | 1.25 |
| D  | TTWW-m   | MT20   | 8.0 | 9.0  | Edge | 3.25 |
| E  | TMWW-w   | MT20   | 2.0 | 4.0  |      |      |
| F  | TTWW-m   | MT20   | 8.0 | 9.0  | Edge | 3.25 |
| G  | TMWW-I   | MT20   | 4.0 | 4.0  | 2.00 | 1.25 |
| H  | TMWW-I   | MT20   | 7.0 | 8.0  | 2.00 | 3.25 |
| J  | BMV1-I   | MT20   | 6.0 | 9.0  | Edge | 0.50 |
| K  | BMWW-I   | MT20   | 7.0 | 8.0  | 4.25 | 1.75 |
| L  | BMWW-I   | MT20   | 4.0 | 12.0 | Edge | 1.75 |
| M  | BS-I     | MT20   | 5.0 | 6.0  |      |      |
| N  | BMWWWW-I | MT20   | 6.0 | 9.0  |      |      |
| O  | BMWW-I   | MT20   | 4.0 | 12.0 | Edge | 1.75 |
| P  | BMWW-I   | MT20   | 7.0 | 8.0  | 4.25 | 1.75 |
| Q  | BMV1-I   | MT20   | 6.0 | 9.0  | 5.50 |      |

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQRD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|-----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                 |
| Q  | 4778                    | 0    | 4778                            | 0    | 5-8             | 5-8             |
| J  | 9176                    | 0    | 9176                            | 0    | 5-8             | 5-8             |

#### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED |          | MAX./MIN. COMPONENT REACTIONS |       | WIND  | DEAD     | SOIL  |
|----|--------------------|----------|-------------------------------|-------|-------|----------|-------|
|    | SNOW               | LIVE     | PERM.LIVE                     | WIND  |       |          |       |
| Q  | 3688               | 2485 / 0 | 605 / 0                       | 0 / 0 | 0 / 0 | 588 / 0  | 0 / 0 |
| J  | 7075               | 4781 / 0 | 1152 / 0                      | 0 / 0 | 0 / 0 | 1143 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) Q, J

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.86 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

2x4 DRY SPF No.2 T-BRACE AT D-O, E-N

2x6 DRY SPF No.2 T-BRACE AT F-N

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |        |               | WEBS                 |       |                           |               |  |
|--------|---------------------------|---------------------------|--------|---------------|----------------------|-------|---------------------------|---------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1    | MAX. CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |  |
| FR-TO  |                           | FROM TO                   |        |               |                      | FR-TO |                           |               |  |
| A-B    | 0 / 54                    | -122.2                    | -122.2 | 0.09 (1)      | 10.00                | P-C   | -941 / 0                  | 0.21 (1)      |  |
| B-C    | -5085 / 0                 | -122.2                    | -122.2 | 0.40 (1)      | 3.98                 | C-O   | 0 / 178                   | 0.02 (1)      |  |
| C-D    | -5334 / 0                 | -122.2                    | -122.2 | 0.40 (1)      | 3.98                 | O-N   | -41 / 134                 | 0.02 (1)      |  |
| D-E    | -5270 / 0                 | -122.2                    | -122.2 | 0.22 (1)      | 4.04                 | D-N   | 0 / 3262                  | 0.40 (1)      |  |
| E-F    | -5270 / 0                 | -122.2                    | -122.2 | 0.22 (1)      | 4.04                 | N-E   | -462 / 0                  | 0.19 (1)      |  |
| F-G    | -7999 / 0                 | -122.2                    | -122.2 | 0.55 (1)      | 3.15                 | N-F   | -2462 / 0                 | 0.73 (1)      |  |
| G-H    | -9203 / 0                 | -122.2                    | -122.2 | 0.69 (1)      | 2.85                 | L-F   | 0 / 6975                  | 0.88 (1)      |  |
| H-I    | 0 / 54                    | -122.2                    | -122.2 | 0.09 (1)      | 10.00                | L-G   | -1484 / 0                 | 0.65 (1)      |  |
| Q-B    | -4699 / 0                 | 0.0                       | 0.0    | 0.17 (1)      | 6.67                 | K-G   | 0 / 1238                  | 0.15 (1)      |  |
| J-H    | -8164 / 0                 | 0.0                       | 0.0    | 0.30 (1)      | 5.26                 | B-P   | 0 / 4068                  | 0.50 (1)      |  |
|        |                           |                           |        |               |                      | K-H   | 0 / 590                   | 0.81 (1)      |  |
| Q-P    | 0 / 0                     | -28.0                     | -28.0  | 0.04 (2)      | 10.00                |       |                           |               |  |
| P-O    | 0 / 3937                  | -28.0                     | -28.0  | 0.29 (1)      | 10.00                |       |                           |               |  |
| O-N    | 0 / 4055                  | -28.0                     | -28.0  | 0.36 (1)      | 10.00                |       |                           |               |  |
| N-M    | 0 / 6187                  | -28.0                     | -28.0  | 0.50 (1)      | 10.00                |       |                           |               |  |
| M-L    | 0 / 6187                  | -28.0                     | -28.0  | 0.50 (1)      | 10.00                |       |                           |               |  |
| L-R    | 0 / 7094                  | -28.0                     | -28.0  | 0.88 (1)      | 10.00                |       |                           |               |  |
| R-S    | 0 / 7094                  | -28.0                     | -28.0  | 0.88 (1)      | 10.00                |       |                           |               |  |
| S-K    | 0 / 7094                  | -28.0                     | -28.0  | 0.88 (1)      | 10.00                |       |                           |               |  |
| K-T    | 0 / 0                     | -28.0                     | -28.0  | 0.42 (1)      | 10.00                |       |                           |               |  |
| T-U    | 0 / 0                     | -28.0                     | -28.0  | 0.42 (1)      | 10.00                |       |                           |               |  |
| U-J    | 0 / 0                     | -28.0                     | -28.0  | 0.42 (1)      | 10.00                |       |                           |               |  |

LICENSED PROFESSIONAL  
9/27/17  
S. KATSOUHLAKO

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1   | MAX-  | MAX+ | FACE | DIR  | TYPE  |
|----|--------|-------|-------|------|------|------|-------|
| L  | 18-4-8 | -5541 | -5541 |      | BACK | VERT | TOTAL |
| R  | 18-5-4 | -1061 | -1061 |      | BACK | VERT | TOTAL |
| S  | 20-5-4 | -1061 | -1061 |      | BACK | VERT | TOTAL |
| T  | 22-5-4 | -1061 | -1061 |      | BACK | VERT | TOTAL |
| U  | 24-5-4 | -1061 | -1061 |      | BACK | VERT | TOTAL |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 38.3 PSF |
| DL         | = 3.0 PSF  |
| BOT CH. LL | = 10.5 PSF |
| DL         | = 7.0 PSF  |
| TOTAL LOAD | = 58.7 PSF |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.85")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.16")  
ALLOWABLE DEFL. (TL) = L/360 (0.85")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.25")

CSI: TC=0.69 (G-H:1), BC=0.88 (K-L:1), WB=0.91 (H-K:1), SSI=0.61 (K-L:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

#### NAIL VALUES

| PLATE   | GRIP(DRY) | SHEAR   | SECTION |
|---------|-----------|---------|---------|
| (PSI)   | (PLI)     | (PLI)   | (PLI)   |
| MAX MIN | MAX MIN   | MAX MIN | MAX MIN |
| MT20    | 618       | 354     | 1667    |
|         | 822       | 2284    | 1656    |

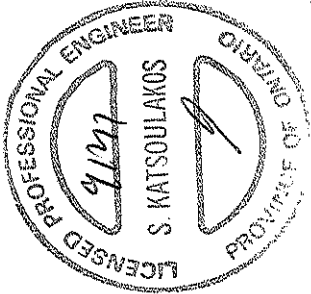
PLATE PLACEMENT TOL. = 0.250 inches

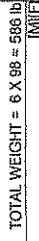
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)  
JSI METAL= 0.89 (B) (INPUT = 1.00)

DWG NO. TAM 46025-17  
STRUCTURAL  
COMPONENT ONLY

CONTINUED ON PAGE 2

| JOB NAME                                                                                                                                                                                                                                                                                                                                                                      | TRUSS NAME | QUANTITY | PLY | JOB DESC. | TRUSS DESC. | DRWG NO. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-----|-----------|-------------|----------|
| 272497                                                                                                                                                                                                                                                                                                                                                                        | T9         | 1        | 2   |           |             |          |
| <p><b>HANGERS NOTES</b></p> <p>1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 5540.9 lbs FACTORED DOWN AT 18-5-4, 18-4-8, 1061.0 lbs FACTORED DOWN AT 20-5-4, AND 1061.0 lbs FACTORED DOWN AT 22-5-4, AND 1061.0 lbs FACTORED DOWN AT 24-5-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.</p> |            |          |     |           |             |          |
| <p>Version 8.000 S Oct 5 2016 Mitek Industries, Inc. Mon Sep 11 16:06:45 2017 Page 2</p> <p>ID:LNxeBSjhD44_hgTuowkTXyk11V:3UjISbN9IZOWI65m3RIHpeAgkrclJdbmPuKaIysq6e</p>                                                                                                                                                                                                      |            |          |     |           |             |          |
| <div style="text-align: right;">  <p> <b>DWG NO. TAM 4605-17</b><br/> <b>STRUCTURAL</b><br/> <b>COMPONENT ONLY</b> </p> </div>                                                                                                                                                             |            |          |     |           |             |          |

DESIGN CRITERIA

| 1ST LCASE | MAX./MIN. | COMPONENT REACTIONS |
|-----------|-----------|---------------------|
| JT        | COMBINED  | SNOW LIVE PERM.LIVE |

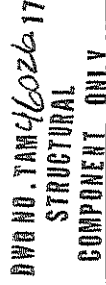
| PLATES (table is in inches) |         | PLATES |      | W   | LEN | Y    | X |
|-----------------------------|---------|--------|------|-----|-----|------|---|
| JT                          | BT TYPE | MT20   | MT20 | 4.0 | 6.0 | Edge |   |
| B                           | TMMW+p  | MT20   | MT20 | 4.0 | 4.0 | 2.00 | 1 |
| C                           | TMMW-1  | MT20   | MT20 | 4.0 | 4.0 | 3.25 | 0 |
| D                           | TWW-h   | MT20   | MT20 | 5.0 | 6.0 |      |   |
| E                           | TMMW-1  | MT20   | MT20 | 3.0 | 6.0 |      |   |
| F                           | BMV1+p  | MT20   | MT20 | 4.0 | 9.0 |      |   |
| G                           | BMWWW-1 | MT20   | MT20 | 3.0 | 6.0 |      |   |
| H                           | BS-1    | MT20   | MT20 | 4.0 | 4.0 | 2.00 | 1 |
| I                           | BMWW-1  | MT20   | MT20 | 3.0 | 4.0 |      |   |
| J                           | BMV1+p  | MT20   | MT20 | 3.0 | 4.0 |      |   |

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

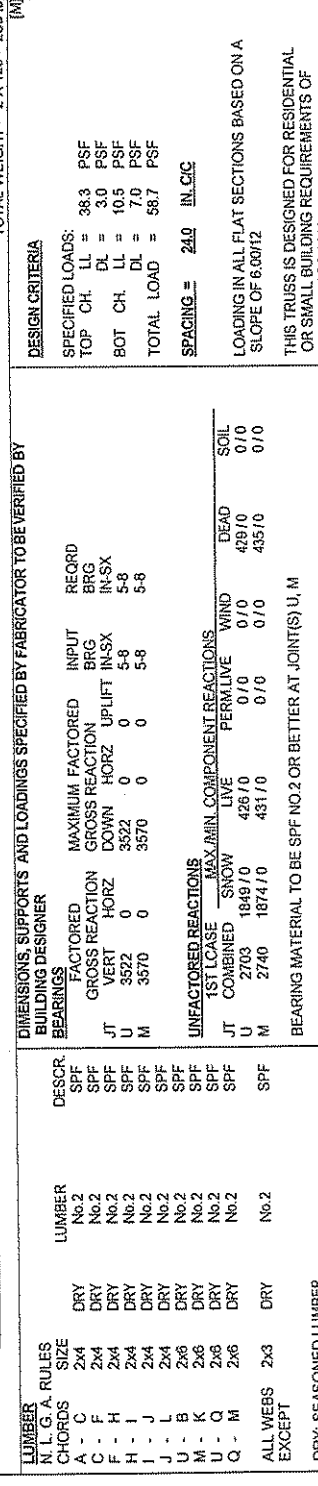
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

TOTAL LOAD CASES: (4)

| CHORDS                 |                            |                        | WEBS                             |                        |                  |
|------------------------|----------------------------|------------------------|----------------------------------|------------------------|------------------|
| MAX. FACTORED<br>MEMB. | FACTORED<br>FORCE<br>(LBS) | VERT. LOAD L1<br>(PLF) | MAX.<br>MEMB.<br>UNBRAC<br>(LBS) | MAX.<br>FORCE<br>(LBS) | MAX.<br>CSI (LC) |
| 100                    | 100                        | 100                    | 100                              | 100                    | 100              |

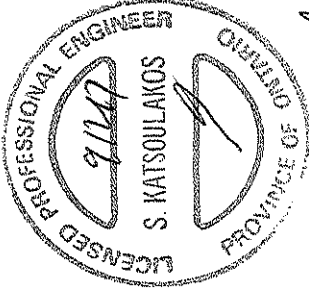


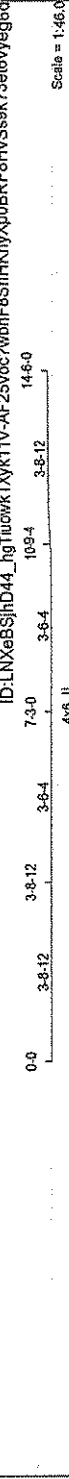
[illegible]



| SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING MAILING PATTERN SHALL BE CAPABLE OF TRANSFERRING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP. |         |      |     |     |      |      |     |     |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----|-----|------|------|-----|-----|------|
| PLATES (table in inches)                                                                                                                                                                              | JT      | TYPE | W   | LEN | Y    | X    | W   | LEN | Y    |
| B                                                                                                                                                                                                     | TMWV-p  | MT20 | 5.0 | 8.0 | Edge | 2.25 | 5.0 | 8.0 | Edge |
| C                                                                                                                                                                                                     | TTWVW-m | MT20 | 7.0 | 8.0 | Edge | 2.25 | 7.0 | 8.0 | Edge |
| D                                                                                                                                                                                                     | TMWV-w  | MT20 | 4.0 | 6.0 |      |      | 4.0 | 6.0 |      |
| E                                                                                                                                                                                                     | TMWV-w  | MT20 | 2.0 | 4.0 |      |      | 2.0 | 4.0 |      |
| F                                                                                                                                                                                                     | TS-I    | MT20 | 3.0 | 4.0 |      |      | 3.0 | 4.0 |      |
| G                                                                                                                                                                                                     | TMWV-I  | MT20 | 4.0 | 4.0 |      |      | 4.0 | 4.0 |      |
| H                                                                                                                                                                                                     | TTWVW-m | MT20 | 5.0 | 6.0 | Edge | 2.25 | 5.0 | 6.0 | Edge |
| I                                                                                                                                                                                                     | TTWVW-m | MT20 | 5.0 | 6.0 |      |      | 5.0 | 6.0 |      |
| J                                                                                                                                                                                                     | TTWVW-m | MT20 | 4.0 | 4.0 | 1.50 | 2.00 | 4.0 | 4.0 | 1.50 |
| K                                                                                                                                                                                                     | TTWVW-m | MT20 | 5.0 | 6.0 | 2.00 | 2.25 | 5.0 | 6.0 | 2.00 |
| L                                                                                                                                                                                                     | TMWV-p  | MT20 | 5.0 | 6.0 |      |      | 5.0 | 6.0 |      |
| M                                                                                                                                                                                                     | BMVW-I  | MT20 | 5.0 | 8.0 |      |      | 5.0 | 8.0 |      |
| N                                                                                                                                                                                                     | BMWVW-I | MT20 | 5.0 | 8.0 |      |      | 5.0 | 8.0 |      |
| O                                                                                                                                                                                                     | BMWVW-I | MT20 | 5.0 | 6.0 |      |      | 5.0 | 6.0 |      |
| P                                                                                                                                                                                                     | BMWVW-I | MT20 | 5.0 | 6.0 | 2.50 |      | 5.0 | 6.0 | 2.50 |
| Q                                                                                                                                                                                                     | BS-I    | MT20 | 5.0 | 8.0 |      |      | 5.0 | 8.0 |      |

DWG NO. TAM 4602B-17  
 STRUCTURAL  
 COMPONENT ONLY

| JOB NAME<br>272497<br>Tamarack Roof Truss, Burlington                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | TRUSS NAME<br>T12 |     | QUANTITY<br>1                                                                    | PPLY<br>2 | JOB DESC.<br>TRUSS DESC. | DRWG NO. |   |   |   |              |     |     |  |  |   |              |     |     |      |      |   |              |     |     |  |  |   |              |     |     |  |  |                                                                                                                                                                                                                                                   |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|-----|----------------------------------------------------------------------------------|-----------|--------------------------|----------|---|---|---|--------------|-----|-----|--|--|---|--------------|-----|-----|------|------|---|--------------|-----|-----|--|--|---|--------------|-----|-----|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| ID:LNxeBSjInD44 hgTilowKTXyk11V-AF25voc?wbhF8ShHKnyXp0BNG8B3Ssk?3ef6vyeq6d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                   |     | Version 8.030 S Oct 5 2016 MTeK industries, Inc. Mon Sep 11 16:06:46 2017 Page 2 |           |                          |          |   |   |   |              |     |     |  |  |   |              |     |     |      |      |   |              |     |     |  |  |   |              |     |     |  |  |                                                                                                                                                                                                                                                   |  |  |  |
| <p><b>PLATES (table is in inches)</b></p> <table><thead><tr><th>JT TYPE</th><th>PLATES</th><th>W</th><th>LEN</th><th>Y</th><th>X</th></tr></thead><tbody><tr><td>R</td><td>BMWVW-1 MT20</td><td>5.0</td><td>8.0</td><td></td><td></td></tr><tr><td>S</td><td>BMWVW-1 MT20</td><td>5.0</td><td>6.0</td><td>2.50</td><td>2.50</td></tr><tr><td>T</td><td>BMWVW-1 MT20</td><td>5.0</td><td>6.0</td><td></td><td></td></tr><tr><td>U</td><td>BMWV1+p MT20</td><td>3.0</td><td>6.0</td><td></td><td></td></tr></tbody></table> <p>Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.</p> <p><b>HANGERS NOTES</b></p> <p>1) SPECIAL HANGERS(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 147.1 lbs FACTORED DOWN AT 13-0-12, AND 147.1 lbs FACTORED DOWN AT 14-6-12 ON TOP CHORD, AND 1071.9 lbs FACTORED DOWN AT 11-1-8, 69.9 lbs FACTORED DOWN AT 13-0-12, AND 69.9 lbs FACTORED DOWN AT 14-6-12, AND 1326.9 lbs FACTORED DOWN AT 15-2-8 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.</p> |              |                   |     | JT TYPE                                                                          | PLATES    | W                        | LEN      | Y | X | R | BMWVW-1 MT20 | 5.0 | 8.0 |  |  | S | BMWVW-1 MT20 | 5.0 | 6.0 | 2.50 | 2.50 | T | BMWVW-1 MT20 | 5.0 | 6.0 |  |  | U | BMWV1+p MT20 | 3.0 | 6.0 |  |  | <div><p>9/11/17<br/>S. KATSOULAKOS<br/>PROFESSIONAL ENGINEER<br/>ONTARIO<br/>PROVINCE OF</p></div> <p>DWG NO. TAM4008-17<br/>STRUCTURAL<br/>COMPONENT ONLY</p> |  |  |  |
| JT TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PLATES       | W                 | LEN | Y                                                                                | X         |                          |          |   |   |   |              |     |     |  |  |   |              |     |     |      |      |   |              |     |     |  |  |   |              |     |     |  |  |                                                                                                                                                                                                                                                   |  |  |  |
| R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BMWVW-1 MT20 | 5.0               | 8.0 |                                                                                  |           |                          |          |   |   |   |              |     |     |  |  |   |              |     |     |      |      |   |              |     |     |  |  |   |              |     |     |  |  |                                                                                                                                                                                                                                                   |  |  |  |
| S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BMWVW-1 MT20 | 5.0               | 6.0 | 2.50                                                                             | 2.50      |                          |          |   |   |   |              |     |     |  |  |   |              |     |     |      |      |   |              |     |     |  |  |   |              |     |     |  |  |                                                                                                                                                                                                                                                   |  |  |  |
| T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BMWVW-1 MT20 | 5.0               | 6.0 |                                                                                  |           |                          |          |   |   |   |              |     |     |  |  |   |              |     |     |      |      |   |              |     |     |  |  |   |              |     |     |  |  |                                                                                                                                                                                                                                                   |  |  |  |
| U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BMWV1+p MT20 | 3.0               | 6.0 |                                                                                  |           |                          |          |   |   |   |              |     |     |  |  |   |              |     |     |      |      |   |              |     |     |  |  |   |              |     |     |  |  |                                                                                                                                                                                                                                                   |  |  |  |



| LUMBER               |   | N.L.G.A. RULES |     | LUMBER |     | W    |     | LEN |     | Y   |     | X    |      |
|----------------------|---|----------------|-----|--------|-----|------|-----|-----|-----|-----|-----|------|------|
| CHORDS               |   | SIZE           |     | No.    |     | No.  |     | 4.0 |     | 4.0 |     | 2.00 |      |
| A                    | C | 2x4            | DRY | No.2   | SPF | No.2 | SPF | 4.0 | 4.0 | 4.0 | 4.0 | 2.00 | 1.50 |
| C                    | E | 2x4            | DRY | No.2   | SPF | No.2 | SPF | 4.0 | 4.0 | 4.0 | 4.0 | 2.00 | 1.50 |
| H                    | A | 2x4            | DRY | No.2   | SPF | No.2 | SPF | 4.0 | 4.0 | 4.0 | 4.0 | 2.00 | 1.50 |
| F                    | E | 2x4            | DRY | No.2   | SPF | No.2 | SPF | 4.0 | 4.0 | 4.0 | 4.0 | 2.00 | 1.50 |
| H                    | F | 2x4            | DRY | No.2   | SPF | No.2 | SPF | 4.0 | 4.0 | 4.0 | 4.0 | 2.00 | 1.50 |
| ALL WEBS EXCEPT      |   | 2x3            | DRY | No.2   | SPF | No.2 | SPF | 4.0 | 4.0 | 4.0 | 4.0 | 2.00 | 1.50 |
| DRY, SEASONED LUMBER |   |                |     |        |     |      |     |     |     |     |     |      |      |

| PLATES (table is in inches) |       | W      |     | LEN |     | Y   |     | X    |      |
|-----------------------------|-------|--------|-----|-----|-----|-----|-----|------|------|
| JT TYPE                     |       | PLATES |     | 3.0 |     | 4.0 |     | 2.00 |      |
| A                           | TMW+p | MT20   | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 2.00 | 1.50 |
| B                           | TMW+p | MT20   | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 2.00 | 1.50 |
| C                           | TMW+p | MT20   | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 2.00 | 1.50 |
| D                           | TMW+p | MT20   | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 2.00 | 1.50 |
| E                           | TMW+p | MT20   | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 2.00 | 1.50 |
| F                           | BMW+p | MT20   | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 2.00 | 1.50 |
| G                           | BMW+p | MT20   | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 2.00 | 1.50 |
| H                           | BMW+p | MT20   | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 2.00 | 1.50 |

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY

| BUILDING DESIGNER |      | MAXIMUM FACTORED |       | INPUT   |       | RECORD |  |
|-------------------|------|------------------|-------|---------|-------|--------|--|
| BEARINGS          |      | GROSS REACTION   |       | BRG     |       | BRG    |  |
| JT                | VERT | DOWN             | HORIZ | UP/LIFT | IN/EX | IN/EX  |  |
| H                 | 1089 | 0                | 0     | 0       | 0     | 0      |  |
| F                 | 1089 | 0                | 0     | 0       | 0     | 0      |  |

HANGER BY OTHERS  
MIN. SEAT SIZE: 1-8  
MIN. SEAT SIZE: 1-8

| UNFACTORED REACTIONS |          | MAX MIN. COMPONENT REACTIONS |       | WIND      |     | DEAD |     | SOIL  |     |
|----------------------|----------|------------------------------|-------|-----------|-----|------|-----|-------|-----|
| 1ST LCASE            |          | LIVE                         |       | PERM LIVE |     | 0/0  |     | 145/0 |     |
| JT                   | COMBINED | 554/0                        | 152/0 | 0/0       | 0/0 | 0/0  | 0/0 | 0/0   | 0/0 |
| H                    | 882      | 554/0                        | 152/0 | 0/0       | 0/0 | 0/0  | 0/0 | 0/0   | 0/0 |
| F                    | 882      | 554/0                        | 152/0 | 0/0       | 0/0 | 0/0  | 0/0 | 0/0   | 0/0 |

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING  
TOTAL LOAD CASES: (4)

| CHORDS |        | FACTORED    |        | MAX. FACTORED   |       | WEBS       |         |
|--------|--------|-------------|--------|-----------------|-------|------------|---------|
| MEMB.  |        | VERT. FORCE |        | MEMB. FORCE     |       | MAX. FORCE |         |
| FR-TO  |        | FROM TO     |        | UNBRACED LENGTH |       | CS1 (LC)   |         |
| A-B    | 0/33   | -122.2      | -122.2 | 0.26 (1)        | 10.00 | G-C        | 0/150   |
| B-C    | -763/0 | -122.2      | -122.2 | 0.20 (1)        | 6.25  | G-D        | -222/38 |
| C-D    | -763/0 | -122.2      | -122.2 | 0.20 (1)        | 6.25  | B-G        | -222/38 |
| D-E    | 0/33   | -122.2      | -122.2 | 0.26 (1)        | 10.00 | H-B        | -1089/0 |
| H-A    | -188/0 | 0.0         | 0.0    | 0.02 (1)        | 7.81  | D-F        | -1089/0 |
| F-E    | -188/0 | 0.0         | 0.0    | 0.02 (1)        | 7.81  |            |         |
| H-G    | 0/705  | -28.0       | -28.0  | 0.49 (2)        | 10.00 |            |         |
| G-F    | 0/705  | -28.0       | -28.0  | 0.49 (2)        | 10.00 |            |         |

DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 38.3 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 58.7 PSF

SPACING = 24.0 IN/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 088-09  
- TPIC 2011

(55 % OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/869 (0.48")

CALCULATED VERT. DEFL.(LL) = L/989 (0.08")

ALLOWABLE DEFL.(TL) = L/869 (0.48")

CALCULATED VERT. DEFL.(TL) = L/989 (0.14")

CSI: TC=0.28 (A-B-1), BC=0.49 (F-G-2), WB=0.57 (B-H-1), SS=0.17 (G-H-3)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

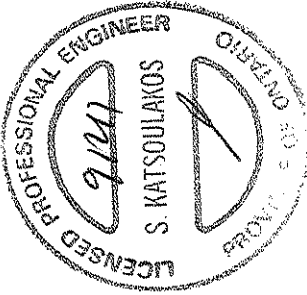
NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLU)  
MAX MIN MAX MIN  
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg

JSI GRIP= 0.90 (D) (INPUT = 0.90 )

JSI METAL = 0.40 (B) (INPUT = 1.00 )



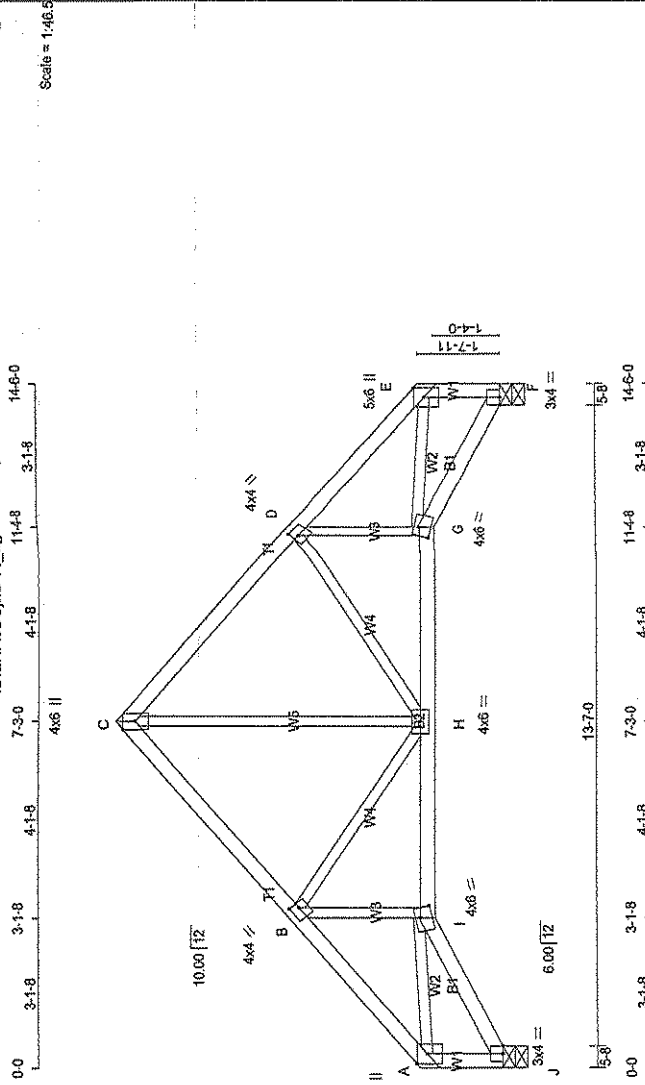
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 42687 | DRWG NO. |
|----------|------------|----------|-----|-------------|-------|----------|
| 272497   | T13S       | 2        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 Mitek Industries, Inc. Mon Sep 11 16:06:46 2017 Page 1

ID:LNxBSjhd44\_hgTuowkTxk11V-AF25voc?wbhF8SHKnyXp0BSi8LKsAk73et6vveg6d

Scale = 1/40.5



TOTAL WEIGHT = 2 X 63 = 126 lb

DESIGN CRITERIA

SPECIFIED LOADS:  
 TOP CH. LL = 38.3 PSF  
 BOT CH. LL = 3.0 PSF  
 BOT CH. LL = 10.5 PSF  
 BOT CH. LL = 7.0 PSF  
 TOTAL LOAD = 58.7 PSF  
 SPACING = 24.0 IN. G.C.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF CBC 2012, CBC 2012, ABC 2014  
 - CSA 086-09  
 - TFC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (L) = U280 (0.48")  
 CALCULATED VERT. DEFL. (L) = U999 (0.04")  
 ALLOWABLE DEFL. (L) = U280 (0.48")  
 CALCULATED VERT. DEFL. (L) = U999 (0.06")

CSI: TC=0.23 (C-D-1), BC=0.25 (G-H-1), WB=0.25 (E-G-1), SS=0.18 (C-D-1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
 MAX MIN MAX MIN  
 MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (0) (INPUT = 0.90 )  
 JSI METAL= 0.45 (0) (INPUT = 1.00 )

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

| BEARINGS | FACTORED | MAXIMUM FACTORED | INPUT | REORD |
|----------|----------|------------------|-------|-------|
| DESCR    | VERT     | GROSS REACTION   | BRG   | BRG   |
| JT       | 1089     | 0                | 0     | IN-SX |
| J        | 1089     | 0                | 5-8   | 5-8   |
| F        | 1089     | 0                | 5-8   | 5-8   |

UNFACTORED REACTIONS

| 1ST LOOSE | MAX/LIVE | MAX/COMPONENT REACTIONS | WIND | DEAD  | SOIL |
|-----------|----------|-------------------------|------|-------|------|
| JT        | 852      | 554/0                   | 0/0  | 145/0 | 0/0  |
| J         | 852      | 554/0                   | 0/0  | 145/0 | 0/0  |
| F         | 852      | 554/0                   | 0/0  | 145/0 | 0/0  |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) J, F

BRACING  
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.28 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

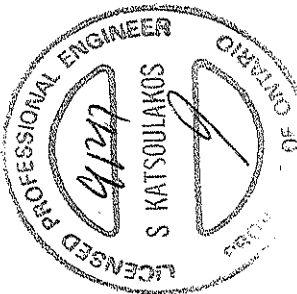
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                  | FACTORED     |               |             |                  | WEBS                 |  |  |  |
|--------|---------------------------|------------------|--------------|---------------|-------------|------------------|----------------------|--|--|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | MAX. CS (LC) | UNBRAC LENGTH | MEMB. FR-TO | MAX. FORCE (LBS) | FACTORED MAX CS (LC) |  |  |  |
| FR-TO  |                           | FROM             |              |               |             |                  |                      |  |  |  |
| A-B    | -1386/0                   | -122.2           | -122.2       | 0.22 (1)      | 5.28 H-C    | 0/711            | 0.16 (1)             |  |  |  |
| B-C    | -886/0                    | -122.2           | -122.2       | 0.23 (1)      | 6.23 G-D    | -520/0           | 0.20 (1)             |  |  |  |
| C-D    | -886/0                    | -122.2           | -122.2       | 0.23 (1)      | 6.23 G-D    | 0/163            | 0.04 (2)             |  |  |  |
| D-E    | -1386/0                   | -122.2           | -122.2       | 0.22 (1)      | 5.28 B-H    | -520/0           | 0.20 (1)             |  |  |  |
| J-A    | -1045/0                   | 0.0              | 0.0          | 0.12 (1)      | 7.69 I-B    | 0/163            | 0.04 (2)             |  |  |  |
| F-E    | -1045/0                   | 0.0              | 0.0          | 0.12 (1)      | 7.69 A-I    | 0/1103           | 0.25 (1)             |  |  |  |
| J-I    | 0/0                       | -28.0            | -28.0        | 0.08 (2)      | 10.00 G-E   | 0/1103           | 0.25 (1)             |  |  |  |
| I-H    | 0/1099                    | -28.0            | -28.0        | 0.25 (1)      | 10.00       |                  |                      |  |  |  |
| H-G    | 0/1099                    | -28.0            | -28.0        | 0.25 (1)      | 10.00       |                  |                      |  |  |  |
| G-F    | 0/0                       | -28.0            | -28.0        | 0.08 (2)      | 10.00       |                  |                      |  |  |  |

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

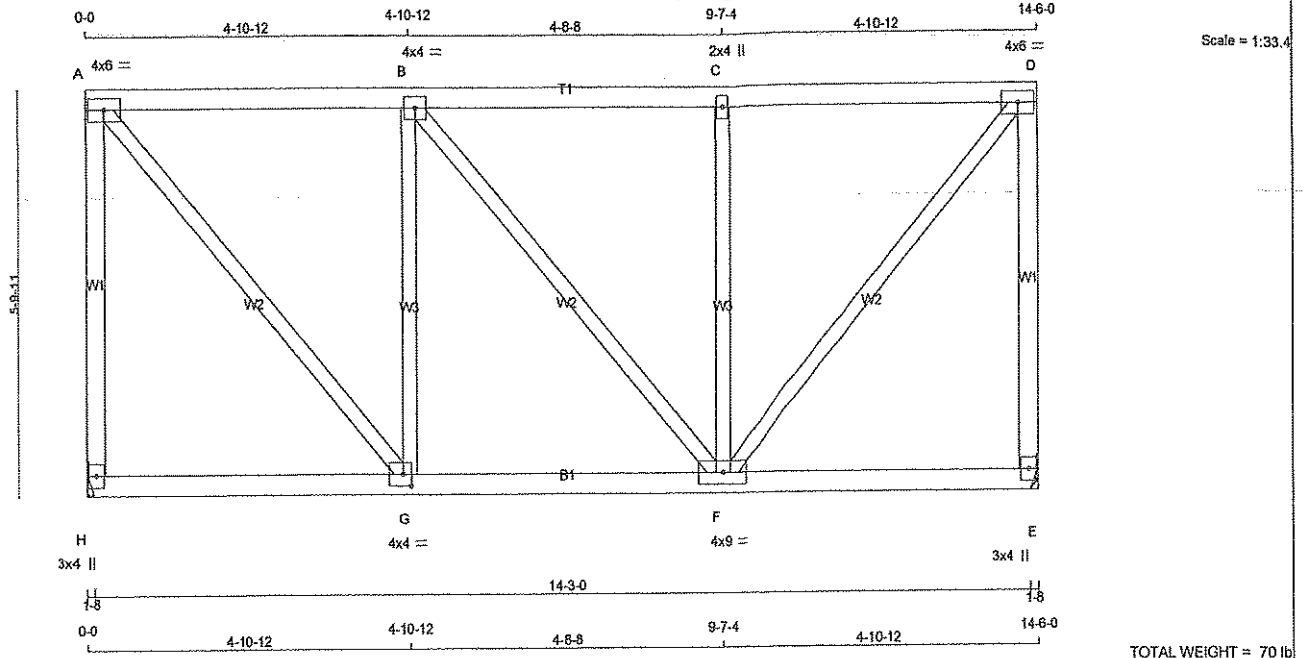


DWG NO. TAW46030-17  
 STRUCTURAL  
 COMPONENT ONLY

|                           |                          |                      |                 |                           |          |
|---------------------------|--------------------------|----------------------|-----------------|---------------------------|----------|
| JOB NAME<br><b>272497</b> | TRUSS NAME<br><b>T14</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>42667</b> | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|---------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 MiTek Industries, Inc. Mon Sep 11 16:06:46 2017 Page 1  
ID:LNxBSjhd44\_hgTtuowkTXyk11V-AF25voc7wbhF8ShHKnyXp0BL98LCSvsk73et6vyeg6d



| LUMBER                |      |        |      | DESCR. |  |
|-----------------------|------|--------|------|--------|--|
| N. L. G. A. RULES     | SIZE | LUMBER |      | SPF    |  |
| CHORDS                |      |        |      |        |  |
| H - A                 | 2x4  | DRY    | No.2 | SPF    |  |
| A - D                 | 2x4  | DRY    | No.2 | SPF    |  |
| E - D                 | 2x4  | DRY    | No.2 | SPF    |  |
| H - E                 | 2x4  | DRY    | No.2 | SPF    |  |
| ALL WEBS              | 2x3  | DRY    | No.2 | SPF    |  |
| DRY: SEASONED LUMBER. |      |        |      |        |  |

| PLATES (table is in inches) |        |        |     |     |      |      |
|-----------------------------|--------|--------|-----|-----|------|------|
| JT                          | TYPE   | PLATES | W   | LEN | Y    | X    |
| A                           | TMVW-1 | MT20   | 4.0 | 6.0 |      |      |
| B                           | TMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| C                           | TMVW-1 | MT20   | 2.0 | 4.0 |      |      |
| D                           | TMVW-1 | MT20   | 4.0 | 6.0 |      |      |
| E                           | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| F                           | BMVW-1 | MT20   | 4.0 | 9.0 |      |      |
| G                           | BMVW-1 | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| H                           | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

| BEARINGS |                | FACTORED       | MAXIMUM FACTORED | INPUT | REQD   |
|----------|----------------|----------------|------------------|-------|--------|
| JT       | GROSS REACTION | GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
|          | VERT           | HORZ           | DOWN             | HORZ  | UPLIFT |
| H        | 1089           | 0              | 1089             | 0     | 0      |
| E        | 1089           | 0              | 1089             | 0     | 0      |

#### UNFACTORED REACTIONS

| 1ST LCASE | MAX/MIN. COMPONENT REACTIONS |         |         |           |       |         |       |
|-----------|------------------------------|---------|---------|-----------|-------|---------|-------|
| JT        | COMBINED                     | SNOW    | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |
| H         | 852                          | 554 / 0 | 152 / 0 | 0 / 0     | 0 / 0 | 145 / 0 | 0 / 0 |
| E         | 852                          | 554 / 0 | 152 / 0 | 0 / 0     | 0 / 0 | 145 / 0 | 0 / 0 |

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS     |                           |                           |                           |
|--------|---------------------------|---------------------------|---------------------------|----------|---------------------------|---------------------------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | FACTORED LC1 MAX CSI (LC) | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | FACTORED LC1 MAX CSI (LC) |
| FR-TO  |                           | FROM                      | TO                        | FR-TO    |                           | FROM                      | TO                        |
| H-A    | -1032 / 0                 | 0.0                       | 0.0                       | 0.65 (1) | F-D                       | 0 / 1053                  | 0.24 (1)                  |
| A-B    | -701 / 0                  | -122.2                    | -122.2                    | 0.40 (1) | A-G                       | 0 / 1056                  | 0.24 (1)                  |
| B-C    | -699 / 0                  | -122.2                    | -122.2                    | 0.39 (1) | F-C                       | -641 / 0                  | 0.33 (1)                  |
| C-D    | -699 / 0                  | -122.2                    | -122.2                    | 0.39 (1) | G-B                       | -642 / 0                  | 0.33 (1)                  |
| E-D    | -1031 / 0                 | 0.0                       | 0.0                       | 0.65 (1) | B-F                       | -3 / 0                    | 0.00 (1)                  |
| H-G    | 0 / 0                     | -28.0                     | -28.0                     | 0.15 (3) |                           |                           |                           |
| G-F    | 0 / 701                   | -28.0                     | -28.0                     | 0.22 (2) |                           |                           |                           |
| F-E    | 0 / 0                     | -28.0                     | -28.0                     | 0.15 (3) |                           |                           |                           |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 38.3 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 58.7 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.48")  
CALCULATED VERT. DEFL.(LL) = 1/999 (0.03")  
ALLOWABLE DEFL.(TL) = L/360 (0.48")  
CALCULATED VERT. DEFL.(TL) = 1/999 (0.05")

CSI: TC=0.65 (A-H:1), BC=0.22 (F-G:2), WB=0.33 (B-G:1), SS=0.28 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1657 822 2284 1856

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.88 (G) (INPUT = 0.90)  
JSI METAL= 0.26 (G) (INPUT = 1.00)

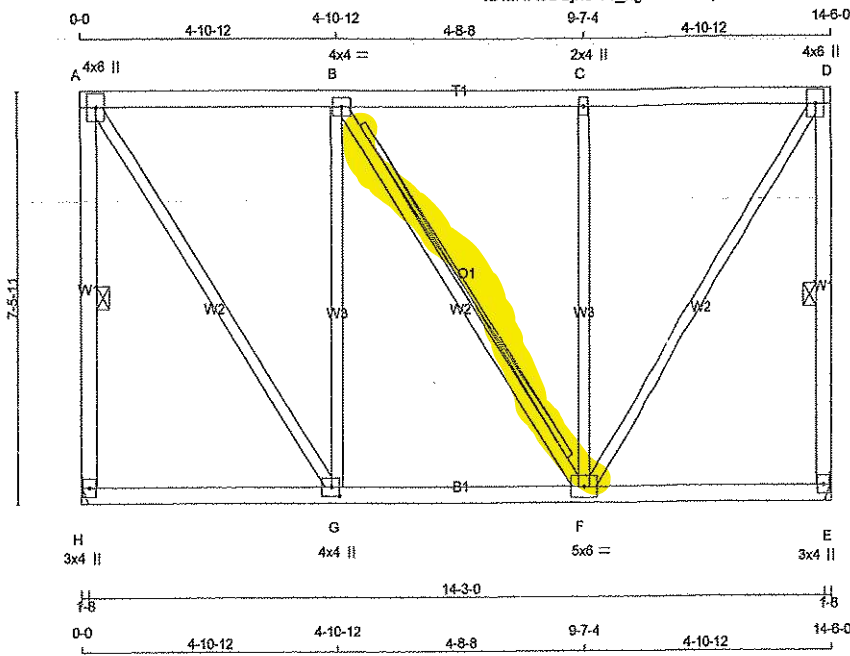


DWG NO. TAM46031-17  
STRUCTURAL  
COMPONENT ONLY

|                                 |                          |                      |                 |                           |          |
|---------------------------------|--------------------------|----------------------|-----------------|---------------------------|----------|
| JOB NAME<br><b>272497</b>       | TRUSS NAME<br><b>T15</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>42087</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                           |          |

Version 8.030 S Oct 5 2016 MiTek Industries, Inc. Mon Sep 11 16:06:47 2017 Page 1

ID:LNxBSjhd44\_hgTtuowkTXyk11V-eScT77ddhvp6lcGTuTmMEkatYghBHCuEINReLyeg6c



Scale = 1:42.4

TOTAL WEIGHT = 80 lb

| LUMBER                |      |        |      | DESCR |  |
|-----------------------|------|--------|------|-------|--|
| N. L. G. A. RULES     | SIZE | LUMBER |      | SPF   |  |
| CHORDS                |      |        |      |       |  |
| H - A                 | 2x4  | DRY    | No.2 | SPF   |  |
| A - D                 | 2x4  | DRY    | No.2 | SPF   |  |
| E - D                 | 2x4  | DRY    | No.2 | SPF   |  |
| H - E                 | 2x4  | DRY    | No.2 | SPF   |  |
| ALL WEBS              | 2x3  | DRY    | No.2 | SPF   |  |
| DRY: SEASONED LUMBER. |      |        |      |       |  |

| PLATES (table is in inches) |        |        |     |     |      |      |
|-----------------------------|--------|--------|-----|-----|------|------|
| JT                          | TYPE   | PLATES | W   | LEN | Y    | X    |
| A                           | TMW+p  | MT20   | 4.0 | 6.0 |      |      |
| B                           | TMW+I  | MT20   | 4.0 | 4.0 |      |      |
| C                           | TMW+w  | MT20   | 2.0 | 4.0 |      |      |
| D                           | TMW+p  | MT20   | 4.0 | 6.0 |      |      |
| E                           | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| F                           | BMW+I  | MT20   | 5.0 | 6.0 |      |      |
| G                           | BMW+I  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| H                           | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

| BEARINGS |  | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT  |       | REQD  |  |
|----------|--|-------------------------|------|---------------------------------|------|--------|-------|-------|--|
| JT       |  | VERT                    | HORZ | DOWN                            | HORZ | UPLIFT | IN-SX | IN-SX |  |
| H        |  | 1089                    | 0    | 1089                            | 0    | 0      |       |       |  |
| E        |  | 1089                    | 0    | 1089                            | 0    | 0      |       |       |  |

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |         |           |       |         |       |  |
|-----------|----------|-------------------------------|---------|-----------|-------|---------|-------|--|
| JT        | COMBINED | SNOW                          | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |  |
| H         | 852      | 554 / 0                       | 152 / 0 | 0 / 0     | 0 / 0 | 145 / 0 | 0 / 0 |  |
| E         | 852      | 554 / 0                       | 152 / 0 | 0 / 0     | 0 / 0 | 145 / 0 | 0 / 0 |  |

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF A-H, D-E.  
2x3 DRY SPF No.2 T-BRACE AT B-F

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                 | WEBS  |                           |                      |               |
|--------|---------------------------|---------------------------|-----------------|-------|---------------------------|----------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LC1 (LC)   | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH | MAX. LC1 (LC) |
| FR-TO  |                           | FROM TO                   |                 | FR-TO |                           |                      |               |
| H-A    | -1033 / 0                 | 0.0                       | 0.0 0.26 (1)    | F-D   | 0 / 953                   | 6.18                 | 0.21 (1)      |
| A-B    | -539 / 0                  | -122.2                    | -122.2 0.39 (1) | A-G   | 0 / 957                   | 6.25                 | 0.22 (1)      |
| B-C    | -537 / 0                  | -122.2                    | -122.2 0.39 (1) | F-C   | -640 / 0                  | 6.25                 | 0.64 (1)      |
| C-D    | -537 / 0                  | -122.2                    | -122.2 0.38 (1) | G-B   | -642 / 0                  | 6.25                 | 0.65 (1)      |
| E-D    | -1031 / 0                 | 0.0                       | 0.0 0.26 (1)    | B-F   | -4 / 0                    | 6.18                 | 0.01 (1)      |
| H-G    | 0 / 0                     | -28.0                     | -28.0 0.15 (3)  |       |                           | 10.00                |               |
| G-F    | 0 / 539                   | -28.0                     | -28.0 0.20 (2)  |       |                           | 10.00                |               |
| F-E    | 0 / 0                     | -28.0                     | -28.0 0.15 (3)  |       |                           | 10.00                |               |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 38.3 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 58.7 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.48")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.03")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.48")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.05")

CSI: TC=0.39 (A-B:1), BC=0.20 (F-G:2), WB=0.65 (B-G:1), SSI=0.28 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

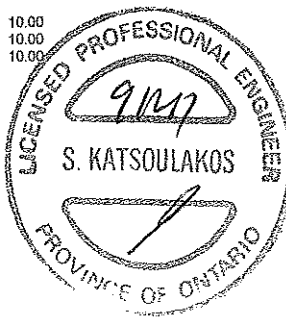
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.89 (G) (INPUT = 0.90)  
JSI METAL= 0.22 (F) (INPUT = 1.00)



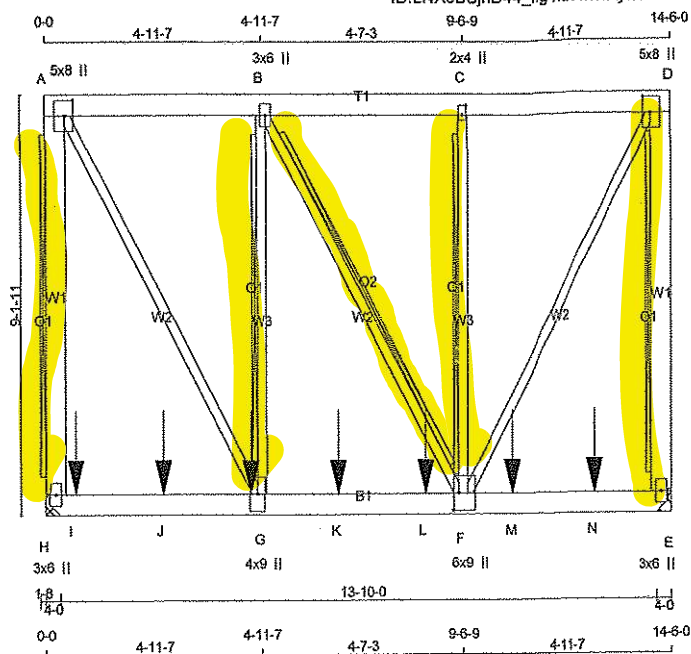
DRG NO. TAM 46032-17  
STRUCTURAL  
COMPONENT ONLY

|                           |                          |                      |                 |                                 |       |          |
|---------------------------|--------------------------|----------------------|-----------------|---------------------------------|-------|----------|
| JOB NAME<br><b>272497</b> | TRUSS NAME<br><b>T16</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>TRUSS DESC.</b> | 42087 | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|---------------------------------|-------|----------|

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 MiTek Industries, Inc. Mon Sep 11 16:06:47 2017 Page 1

ID:LNxBSjhD44\_hgTuwkTXyk11V-eScT77ddhvp6lCGTuTmMEkb3YZJBJfEinReLyeg6c



Scale = 1:50.8

TOTAL WEIGHT = 2 X 118 = 235 lb

| LUMBER   | N. L. G. A. RULES | CHORDS               | SIZE | LUMBER | DESCR. |
|----------|-------------------|----------------------|------|--------|--------|
| H - A    | 2x6               | DRY                  | No.2 | SPF    |        |
| A - D    | 2x6               | DRY                  | No.2 | SPF    |        |
| E - D    | 2x6               | DRY                  | No.2 | SPF    |        |
| H - E    | 2x6               | DRY                  | No.2 | SPF    |        |
| ALL WEBS | 2x3               | DRY                  | No.2 | SPF    |        |
|          |                   | DRY: SEASONED LUMBER |      |        |        |

DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

| CHORDS                                   | ROWS | SURFACE      | LOAD(PLF)    |
|------------------------------------------|------|--------------|--------------|
|                                          |      | SPACING (IN) |              |
| TOP CHORDS : (0.122'X3") SPIRAL NAILS    |      |              |              |
| H-A                                      | 2    | 12           | SIDE (129.1) |
| A-D                                      | 2    | 12           | TOP          |
| D-E                                      | 2    | 12           | TOP          |
| BOTTOM CHORDS : (0.122'X3") SPIRAL NAILS |      |              |              |
| H-E                                      | 2    | 12           | SIDE (183.1) |
| WEBS : (0.122'X3") SPIRAL NAILS          |      |              |              |
| G-B                                      | 1    | 6            | SIDE (128.0) |
| 2x3                                      | 1    | 6            |              |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERRING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| A  | TMVW+p | MT20   | 5.0 | 8.0 | 4.00 | 2.25 |
| B  | TMVW+t | MT20   | 3.0 | 6.0 |      |      |
| C  | TMVW+w | MT20   | 2.0 | 4.0 | 2.50 | 1.00 |
| D  | TMVW+p | MT20   | 5.0 | 8.0 | 4.00 | 2.25 |
| E  | BMV1+p | MT20   | 3.0 | 6.0 |      |      |
| F  | BMVWWH | MT20   | 6.0 | 9.0 | 4.50 | 1.50 |
| G  | BMVWH  | MT20   | 4.0 | 9.0 |      |      |
| H  | BMV1+p | MT20   | 3.0 | 6.0 |      |      |

#### HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 1198.8 lbs FACTORED DOWN AT 8-4, 1192.5 lbs FACTORED DOWN AT 2-8-4, 1192.5 lbs FACTORED DOWN AT 4-8-4, 1192.5 lbs FACTORED DOWN AT 6-8-4, 1192.5 lbs FACTORED DOWN AT 8-8-4, AND 1192.5 lbs FACTORED DOWN AT 10-8-4, AND 1192.5 lbs FACTORED DOWN AT 12-8-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | HORZ                            | DOWN      | HORZ     |
| H        | 5569                    | 0                               | 5569      | 0        |
| E        | 4961                    | 0                               | 4961      | 0        |

#### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED | MAX. MIN. SNOW | MAX. MIN. LIVE | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|--------------------|----------------|----------------|------------|-------|---------|-------|
| H  | 4308               | 2886 / 0       | 717 / 0        | 0 / 0      | 0 / 0 | 704 / 0 | 0 / 0 |
| E  | 3837               | 2572 / 0       | 638 / 0        | 0 / 0      | 0 / 0 | 627 / 0 | 0 / 0 |

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

2x6 DRY SPF No.2 T-BRACE AT A-H, D-E  
2x4 DRY SPF No.2 T-BRACE AT C-F, B-G, B-F

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED         | FACTORED | FACTORED | FACTORED | FACTORED    | FACTORED | FACTORED | FACTORED |
|--------|---------------|------------------|----------|----------|----------|-------------|----------|----------|----------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD (PLF) | LC1 MAX  | LC1 MAX  | MEMB.    | FORCE (LBS) | LC1 MAX  | LC1 MAX  | MEMB.    |
| FR-TO  |               | FROM TO          |          |          | FR-TO    |             |          |          |          |
| H-A    | -4150 / 0     | 0.0              | 0.0      | 0.38 (1) | 7.81     | F-D         | 0 / 4450 | 0.55 (1) |          |
| A-B    | -2214 / 0     | -122.2           | -122.2   | 0.12 (1) | 6.25     | A-G         | 0 / 4470 | 0.55 (1) |          |
| B-C    | -2204 / 0     | -122.2           | -122.2   | 0.07 (1) | 6.25     | F-C         | -605 / 0 | 0.23 (1) |          |
| C-D    | -2204 / 0     | -122.2           | -122.2   | 0.12 (1) | 6.25     | G-B         | -607 / 0 | 0.23 (1) |          |
| E-D    | -4136 / 0     | 0.0              | 0.0      | 0.38 (1) | 7.81     | B-F         | -22 / 0  | 0.01 (1) |          |
| H-I    | 0 / 0         | -28.0            | -28.0    | 0.49 (1) | 10.00    |             |          |          |          |
| I-J    | 0 / 0         | -28.0            | -28.0    | 0.49 (1) | 10.00    |             |          |          |          |
| J-G    | 0 / 0         | -28.0            | -28.0    | 0.49 (1) | 10.00    |             |          |          |          |
| G-K    | 0 / 2214      | -28.0            | -28.0    | 0.65 (1) | 10.00    |             |          |          |          |
| K-L    | 0 / 2214      | -28.0            | -28.0    | 0.65 (1) | 10.00    |             |          |          |          |
| L-F    | 0 / 2214      | -28.0            | -28.0    | 0.65 (1) | 10.00    |             |          |          |          |
| F-M    | 0 / 0         | -28.0            | -28.0    | 0.53 (1) | 10.00    |             |          |          |          |
| M-N    | 0 / 0         | -28.0            | -28.0    | 0.53 (1) | 10.00    |             |          |          |          |
| N-E    | 0 / 0         | -28.0            | -28.0    | 0.53 (1) | 10.00    |             |          |          |          |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1   | MAX.  | MAX+ | FACE | DIR. | TYPE  |
|----|--------|-------|-------|------|------|------|-------|
| G  | 4-8-4  | -1192 | -1192 | ---  | BACK | VERT | TOTAL |
| I  | 8-4    | -1197 | -1197 | ---  | BACK | VERT | TOTAL |
| J  | 2-8-4  | -1192 | -1192 | ---  | BACK | VERT | TOTAL |
| K  | 6-8-4  | -1192 | -1192 | ---  | BACK | VERT | TOTAL |
| L  | 8-8-4  | -1192 | -1192 | ---  | BACK | VERT | TOTAL |
| M  | 10-8-4 | -1192 | -1192 | ---  | BACK | VERT | TOTAL |
| N  | 12-8-4 | -1192 | -1192 | ---  | BACK | VERT | TOTAL |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 38.3 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 58.7 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.48")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")  
ALLOWABLE DEFL.(TL) = L/360 (0.48")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.38 (A-H:1), BC=0.65 (F-G:1), WB=0.55 (A-G:1), SSI=0.56 (E-F:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00  
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 0.50

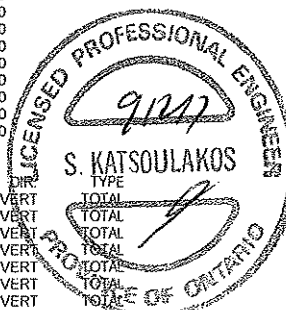
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 822 2284 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (G) (INPUT = 0.90)  
JSI METAL= 0.36 (G) (INPUT = 1.00)



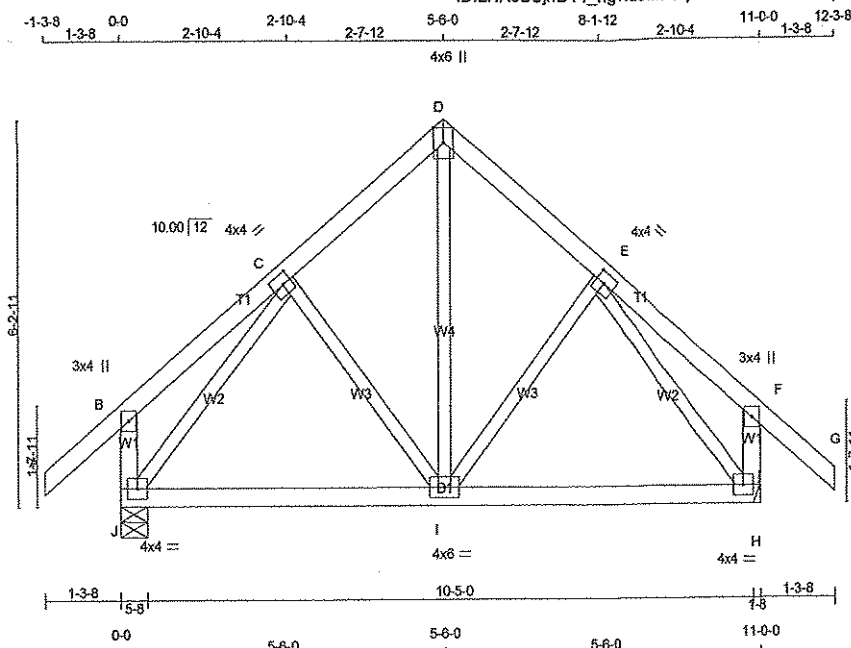
DWG NO. TAM 4603317  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 42067 | DRWG NO. |
| 272497   | T17        | 3        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 Mitek Industries, Inc. Mon Sep 11 16:06:47 2017 Page 1

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TOTAL WEIGHT = 3 X 54 = 162 lb

| LUMBER            |      |     |        | DESCR. |  |
|-------------------|------|-----|--------|--------|--|
| N. L. G. A. RULES | SIZE | DRY | LUMBER | SPF    |  |
| CHORDS            |      |     |        |        |  |
| A - D             | 2x4  | DRY | No.2   | SPF    |  |
| D - G             | 2x4  | DRY | No.2   | SPF    |  |
| J - B             | 2x4  | DRY | No.2   | SPF    |  |
| H - F             | 2x4  | DRY | No.2   | SPF    |  |
| J - H             | 2x4  | DRY | No.2   | SPF    |  |
| ALL WEBS          | 2x3  | DRY | No.2   | SPF    |  |
| EXCEPT            |      |     |        |        |  |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TTW+p   | MT20   | 4.0 | 6.0 | Edge |      |
| E  | TMWW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| F  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVW1-t | MT20   | 4.0 | 4.0 |      |      |
| I  | BMVW1-t | MT20   | 4.0 | 6.0 |      |      |
| J  | BMVW1-t | MT20   | 4.0 | 4.0 |      |      |

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT IN-SX | REQRD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-------------|-----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |             |                 |
| J  | 995                     | 0    | 995                             | 0    | 5-8         | 5-8             |
| H  | 995                     | 0    | 995                             | 0    | 0           | 0               |

HANGER BY OTHERS  
MIN. SEAT SIZE: 1-8

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | SNOW    | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|---------|---------|-----------|-------|---------|-------|
| J  | 760       | 527 / 0 | 116 / 0 | 0 / 0     | 0 / 0 | 118 / 0 | 0 / 0 |
| H  | 760       | 527 / 0 | 116 / 0 | 0 / 0     | 0 / 0 | 118 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) J

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |              | WEBS                 |       |                           |               |
|--------|---------------------------|---------------------------|--------------|----------------------|-------|---------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX LC1 (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |
| FR-TO  |                           | FROM                      | TO           |                      | FR-TO |                           |               |
| A-B    | 0 / 54                    | -122.2                    | -122.2       | 0.17 (1)             | 10.00 | I-D                       | 0 / 403       |
| B-C    | 0 / 24                    | -122.2                    | -122.2       | 0.14 (1)             | 10.00 | I-E                       | -135 / 39     |
| C-D    | -547 / 0                  | -122.2                    | -122.2       | 0.11 (1)             | 6.25  | C-I                       | -135 / 39     |
| D-E    | -547 / 0                  | -122.2                    | -122.2       | 0.11 (1)             | 6.25  | J-C                       | -801 / 0      |
| E-F    | 0 / 24                    | -122.2                    | -122.2       | 0.14 (1)             | 10.00 | E-H                       | -801 / 0      |
| F-G    | 0 / 54                    | -122.2                    | -122.2       | 0.17 (1)             | 10.00 |                           |               |
| J-B    | -298 / 0                  | 0.0                       | 0.0          | 0.03 (1)             | 7.81  |                           |               |
| H-F    | -298 / 0                  | 0.0                       | 0.0          | 0.03 (1)             | 7.81  |                           |               |
| J-I    | 0 / 486                   | -28.0                     | -28.0        | 0.29 (2)             | 10.00 |                           |               |
| I-H    | 0 / 486                   | -28.0                     | -28.0        | 0.29 (2)             | 10.00 |                           |               |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |        |     |
|------------|----|--------|-----|
| TOP CH.    | LL | = 38.3 | PSF |
|            | DL | = 3.0  | PSF |
| BOT CH.    | LL | = 10.5 | PSF |
|            | DL | = 7.0  | PSF |
| TOTAL LOAD |    | = 58.7 | PSF |

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.37")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.03")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.37")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.05")

CSI: TC=0.17 (F-G:1), BC=0.29 (H-I:2), WB=0.26 (C-J:1), SSI=0.13 (I-J:3)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) |         |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 618       | 354   | 1667    |
|       | 822       | 2284  | 1656    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

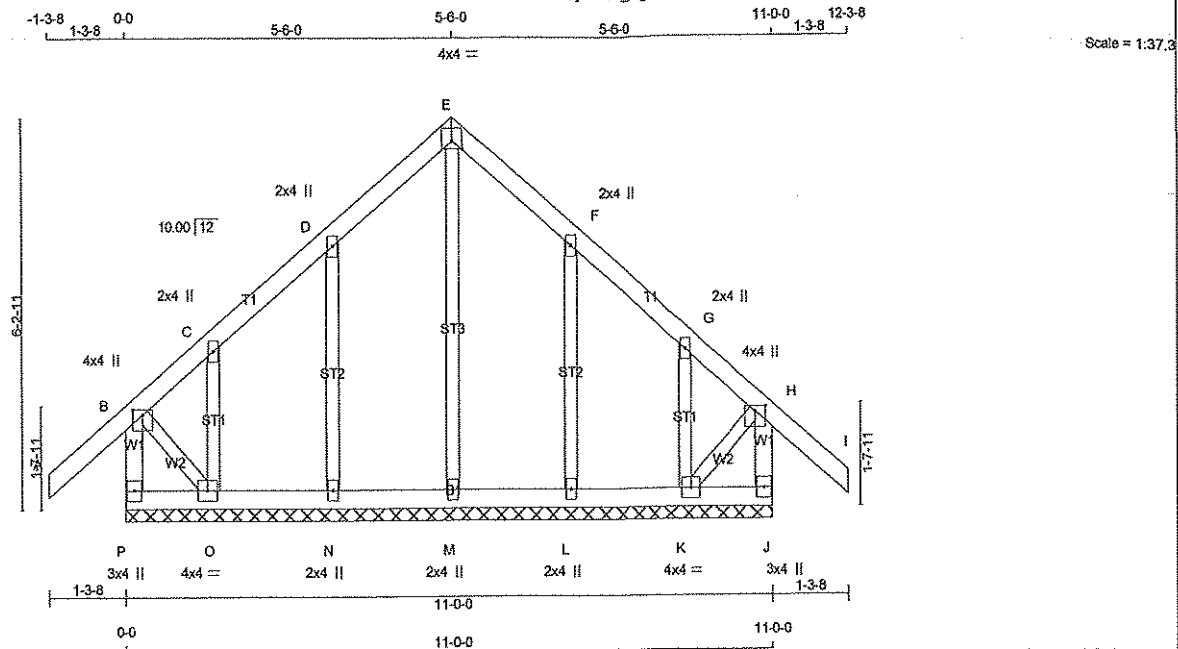
JSI GRIP= 0.82 (E) (INPUT = 0.90)  
JSI METAL= 0.29 (E) (INPUT = 1.00)



HWB NO. TAM 46034-17  
STRUCTURAL  
COMPONENT ONLY

Tamarack Roof Truss, Burlington

Version 8.030 5 Oct 5 2016 MiTek Industries, Inc. Mon Sep 11 16:06:41 2017 Page 1  
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TOTAL WEIGHT = 53 lb

| LUMBER            |         |        |        |
|-------------------|---------|--------|--------|
| N. L. G. A. RULES | SIZE    | LUMBER | DESCR. |
| CHORDS            |         |        |        |
| P - B             | 2x4 DRY | No.2   | SPF    |
| A - E             | 2x4 DRY | No.2   | SPF    |
| E - I             | 2x4 DRY | No.2   | SPF    |
| J - H             | 2x4 DRY | No.2   | SPF    |
| P - J             | 2x4 DRY | No.2   | SPF    |

ALL WEBS 2x3 DRY No.2  
ALL GABLE WEBS 2x3 DRY No.2  
SPF  
DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2'-0" OC.

#### PLATES (table in inches)

| JT         | TYPE   | PLATES | W   | LEN | Y    | X    |
|------------|--------|--------|-----|-----|------|------|
| B          | TMW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| C, D, F, G |        |        |     |     |      |      |
| E          | TMW+w  | MT20   | 2.0 | 4.0 |      |      |
| H          | TTW+p  | MT20   | 4.0 | 4.0 | 1.50 | 2.00 |
| J          | TMW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| K          | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| L, M, N    |        |        |     |     |      |      |
| O          | BMW1+w | MT20   | 2.0 | 4.0 |      |      |
| P          | BMW1+p | MT20   | 4.0 | 4.0 |      |      |

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

##### BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                 | WEBS  |                           |                           |              |
|--------|---------------------------|---------------------------|-----------------|-------|---------------------------|---------------------------|--------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX (LC)    | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX (LC) |
| FR-TO  |                           | FROM TO                   |                 | FR-TO |                           | FROM TO                   |              |
| P-B    | -365 / 0                  | 0.0                       | 0.0 0.04 (1)    | M-E   | -184 / 0                  | 0.11 (1)                  |              |
| A-B    | 0 / 54                    | -122.2                    | -122.2 0.17 (1) | N-D   | -295 / 0                  | 0.09 (1)                  |              |
| B-C    | -75 / 0                   | -122.2                    | -122.2 0.16 (1) | O-C   | -105 / 0                  | 0.02 (1)                  |              |
| C-D    | -6 / 0                    | -122.2                    | -122.2 0.08 (1) | L-F   | -295 / 0                  | 0.09 (1)                  |              |
| D-E    | -30 / 0                   | -122.2                    | -122.2 0.08 (1) | K-G   | -105 / 0                  | 0.02 (1)                  |              |
| E-F    | -30 / 0                   | -122.2                    | -122.2 0.08 (1) | B-O   | 0 / 27                    | 0.01 (1)                  |              |
| F-G    | -6 / 0                    | -122.2                    | -122.2 0.08 (1) | K-H   | 0 / 27                    | 0.01 (1)                  |              |
| G-H    | -75 / 0                   | -122.2                    | -122.2 0.16 (1) |       |                           |                           |              |
| H-I    | 0 / 54                    | -122.2                    | -122.2 0.17 (1) |       |                           |                           |              |
| J-H    | -365 / 0                  | 0.0                       | 0.0 0.04 (1)    |       |                           |                           |              |
| P-O    | 0 / 0                     | -28.0                     | -28.0 0.02 (3)  |       |                           |                           |              |
| O-N    | 0 / 16                    | -28.0                     | -28.0 0.02 (2)  |       |                           |                           |              |
| N-M    | 0 / 9                     | -28.0                     | -28.0 0.02 (2)  |       |                           |                           |              |
| M-L    | 0 / 9                     | -28.0                     | -28.0 0.02 (2)  |       |                           |                           |              |
| L-K    | 0 / 16                    | -28.0                     | -28.0 0.02 (2)  |       |                           |                           |              |
| K-J    | 0 / 0                     | -28.0                     | -28.0 0.02 (3)  |       |                           |                           |              |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 38.3 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 58.7 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.17 (H-I:1), BC=0.02 (N-O:2), WB=0.11 (E-M:1), SSI=0.10 (H-I:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

##### NAIL VALUES

| PLATE   | GRIP(DRY) | SHEAR    | SECTION   |
|---------|-----------|----------|-----------|
| (PSI)   | (PLI)     | (PLI)    | (PLI)     |
| MAX MIN | MAX MIN   | MAX MIN  | MAX MIN   |
| MT20    | 618 354   | 1667 822 | 2284 1656 |

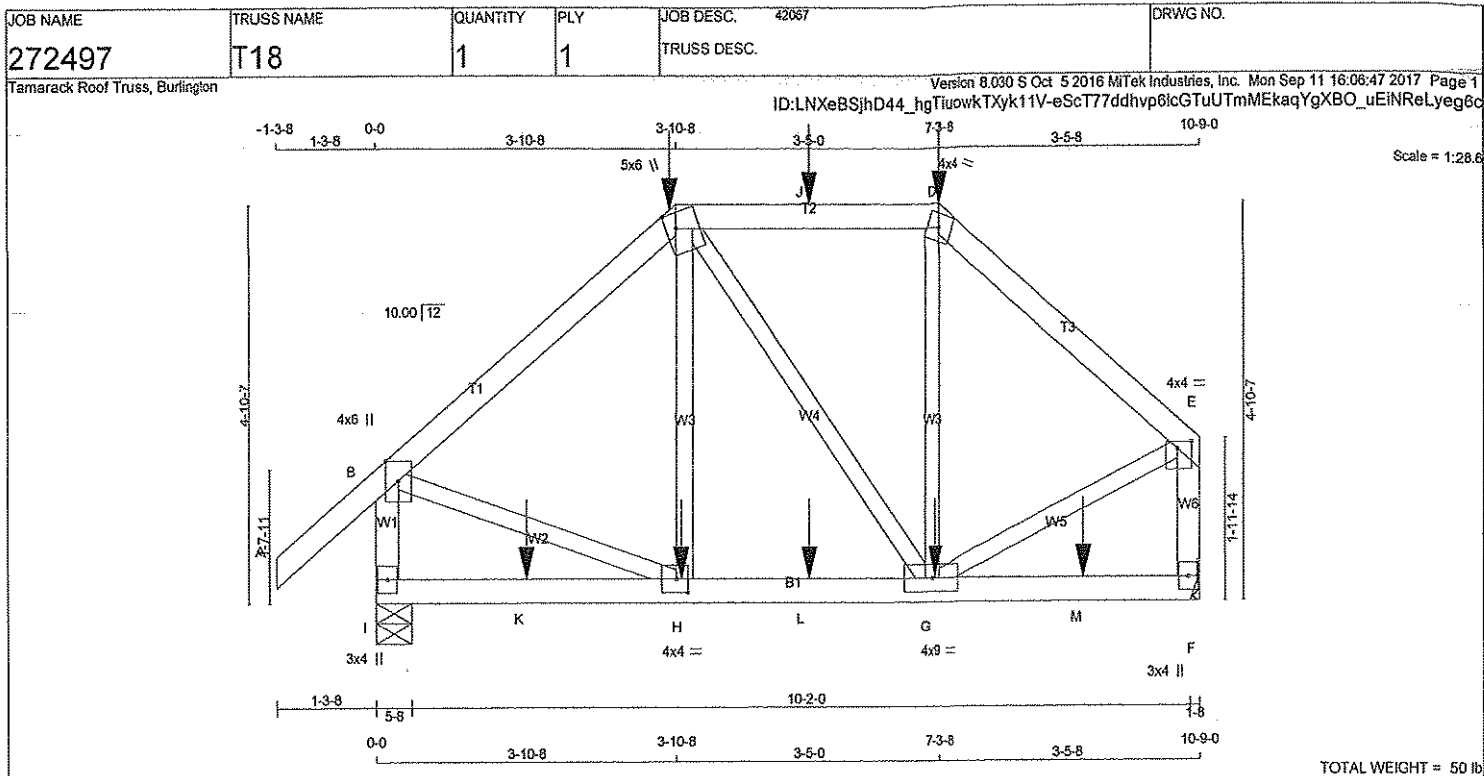
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.31 (E) (INPUT = 0.90)  
JSI METAL= 0.08 (F) (INPUT = 1.00)



DRWG NO. TAM 46035.17  
STRUCTURAL  
COMPONENT ONLY



| LUMBER            |      |     |        |
|-------------------|------|-----|--------|
| N. L. G. A. RULES |      |     |        |
| CHORDS            | SIZE | DRY | DESCR. |
| A - C             | 2x4  | DRY | No.2   |
| C - D             | 2x4  | DRY | No.2   |
| D - E             | 2x4  | DRY | No.2   |
| E - F             | 2x4  | DRY | No.2   |
| F - G             | 2x4  | DRY | No.2   |
| G - H             | 2x4  | DRY | No.2   |
| H - I             | 2x4  | DRY | No.2   |
| I - J             | 2x4  | DRY | No.2   |

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW+p | MT20   | 4.0 | 6.0 | Edge |      |
| C  | TTWW+m | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| D  | TTW-m  | MT20   | 4.0 | 4.0 |      |      |
| E  | TMVW-p | MT20   | 4.0 | 4.0 | 1.00 | 2.25 |
| F  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| G  | BMWW-l | MT20   | 4.0 | 9.0 |      |      |
| H  | BMWW-l | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| I  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

#### HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 358.6 lbs FACTORED DOWN AT 3-10-8, AND 89.1 lbs FACTORED DOWN AT 5-7-0, AND 358.6 lbs FACTORED DOWN AT 7-3-8 ON TOP CHORD, AND 42.0 lbs FACTORED DOWN AT 1-11-4, 35.7 lbs FACTORED DOWN AT 3-11-4, 35.7 lbs FACTORED DOWN AT 5-7-0, AND 35.7 lbs FACTORED DOWN AT 7-2-12, AND 42.0 lbs FACTORED DOWN AT 9-2-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX  | REQD BRG IN-SX      |
|----|-------------------------|------|---------------------------------|------|------------------|---------------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                  |                     |
| I  | 1417                    | 0    | 1417                            | 0    | 5-8              | 5-8                 |
| F  | 1203                    | 0    | 1203                            | 0    | HANGER BY OTHERS | MIN. SEAT SIZE: 1-8 |

##### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED |         | MAX/MIN. COMPONENT REACTIONS |        | WIND  | DEAD    | SOIL  |
|----|--------------------|---------|------------------------------|--------|-------|---------|-------|
|    | SNOW               | LIVE    | PERM. LIVE                   | UNBRAC |       |         |       |
| I  | 1073               | 757 / 0 | 152 / 0                      | 0 / 0  | 0 / 0 | 164 / 0 | 0 / 0 |
| F  | 985                | 671 / 0 | 155 / 0                      | 0 / 0  | 0 / 0 | 159 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) I

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.55 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

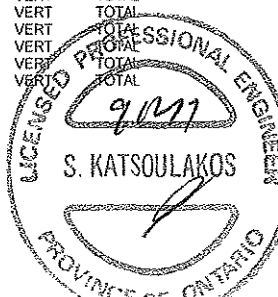
##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             |                  |          | WEBS     |             |               |          |
|--------|-------------|------------------|----------|----------|-------------|---------------|----------|
| MEMB.  | FORCE (LBS) | FACTORED         |          | MEMB.    | FORCE (LBS) | MAX. FACTORED |          |
|        |             | VERT. LOAD (PLF) | CS1 (LC) |          |             | (LBS)         | CS1 (LC) |
| FR-TO  |             | FROM             | TO       | FR-TO    |             |               |          |
| A-B    | 0 / 54      | -122.2           | -122.2   | 0.19 (1) | 10.00       | -111 / 190    | 0.05 (3) |
| B-C    | -1067 / 0   | -122.2           | -122.2   | 0.38 (1) | 5.55        | -65 / 0       | 0.03 (1) |
| C-J    | -777 / 0    | -122.2           | -122.2   | 0.40 (1) | 6.20        | -168 / 157    | 0.06 (1) |
| J-D    | -777 / 0    | -122.2           | -122.2   | 0.40 (1) | 6.20        | 0 / 680       | 0.21 (1) |
| D-E    | -1019 / 0   | -122.2           | -122.2   | 0.30 (1) | 5.78        | 0 / 680       | 0.21 (1) |
| I-B    | -1360 / 0   | 0.0              | 0.0      | 0.16 (1) | 6.93        |               |          |
| F-E    | -1229 / 0   | 0.0              | 0.0      | 0.15 (1) | 7.20        |               |          |
| I-K    | 0 / 0       | -28.0            | -28.0    | 0.15 (2) | 10.00       |               |          |
| K-H    | 0 / 0       | -28.0            | -28.0    | 0.15 (2) | 10.00       |               |          |
| H-L    | 0 / 815     | -28.0            | -28.0    | 0.21 (2) | 10.00       |               |          |
| L-G    | 0 / 815     | -28.0            | -28.0    | 0.21 (2) | 10.00       |               |          |
| G-M    | 0 / 0       | -28.0            | -28.0    | 0.12 (2) | 10.00       |               |          |
| M-F    | 0 / 0       | -28.0            | -28.0    | 0.12 (2) | 10.00       |               |          |

##### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  |
|----|--------|------|------|------|------|------|-------|
| C  | 3-10-8 | -359 | -359 |      | BACK | VERT | TOTAL |
| D  | 7-3-8  | -359 | -359 |      | BACK | VERT | TOTAL |
| G  | 7-2-12 | -20  | -36  |      | BACK | VERT | TOTAL |
| H  | 3-11-4 | -20  | -36  |      | BACK | VERT | TOTAL |
| J  | 5-7-0  | -89  | -89  |      | BACK | VERT | TOTAL |
| K  | 1-11-4 | -24  | -42  |      | BACK | VERT | TOTAL |
| L  | 5-7-0  | -20  | -36  |      | BACK | VERT | TOTAL |
| M  | 9-2-12 | -24  | -42  |      | BACK | VERT | TOTAL |



#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 38.3 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 58.7 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 8.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) =  $L/360$  (0.36")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.02")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.36")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.03")

CSI: TC=0.40 (C-D:1), BC=0.21 (G-H:2), WB=0.21 (E-G:1), SSI=0.22 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00  
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

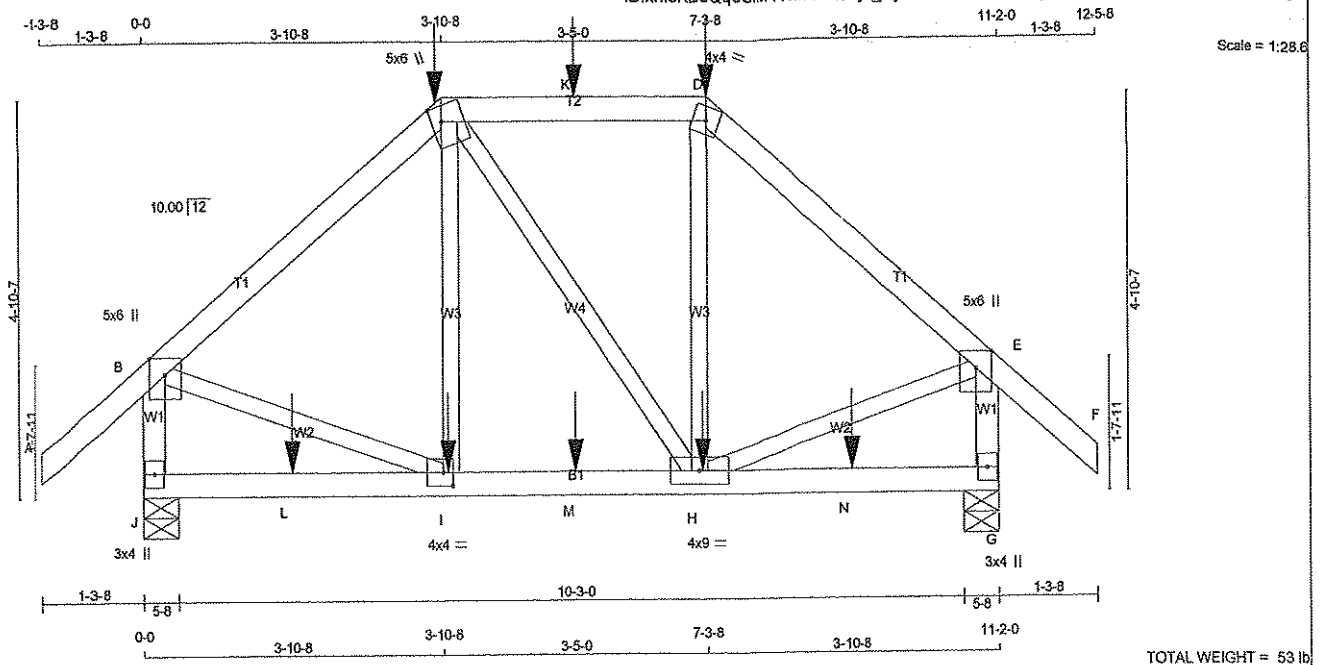
NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90)  
JSI METAL= 0.31 (H) (INPUT = 1.09)

DRWG NO. TAM 46036217  
STRUCTURAL  
COMPONENT ONLY



| LUMBER            |        |      |        |        |
|-------------------|--------|------|--------|--------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
| A - C             | 2x4    | DRY  | No.2   | SPF    |
| C - D             | 2x4    | DRY  | No.2   | SPF    |
| D - F             | 2x4    | DRY  | No.2   | SPF    |
| J - B             | 2x4    | DRY  | No.2   | SPF    |
| G - E             | 2x4    | DRY  | No.2   | SPF    |
| J - G             | 2x4    | DRY  | No.2   | SPF    |

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT  
DRY: SEASONED LUMBER

| PLATES (table is in inches) |         |        |     |               |
|-----------------------------|---------|--------|-----|---------------|
| JT                          | TYPE    | PLATES | W   | LEN Y X       |
| B                           | TMVW+p  | MT20   | 5.0 | 6.0 Edge      |
| C                           | TTWW+m  | MT20   | 5.0 | 6.0 2.25 1.50 |
| D                           | TTW-m   | MT20   | 4.0 | 4.0           |
| E                           | TMVW+p  | MT20   | 5.0 | 6.0 Edge      |
| G                           | BMV1+p  | MT20   | 3.0 | 4.0           |
| H                           | BMWWV-t | MT20   | 4.0 | 9.0           |
| I                           | BMWW-t  | MT20   | 4.0 | 4.0 2.00 1.50 |
| J                           | BMV1+p  | MT20   | 3.0 | 4.0           |

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

#### HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 384.1 lbs FACTORED DOWN AT 3-10-8, AND 114.6 lbs FACTORED DOWN AT 5-7-0, AND 384.1 lbs FACTORED DOWN AT 7-3-8 ON TOP CHORD, AND 42.0 lbs FACTORED DOWN AT 1-11-4, 42.0 lbs FACTORED DOWN AT 3-11-4, 42.0 lbs FACTORED DOWN AT 5-7-0, AND 42.0 lbs FACTORED DOWN AT 7-2-12, AND 42.0 lbs FACTORED DOWN AT 9-2-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

| BEARINGS |      | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT | HORZ                    | DOWN                            | HORZ      | UPLIFT   |
| J        | 1509 | 0                       | 1509                            | 0         | 5-8      |
| G        | 1509 | 0                       | 1509                            | 0         | 5-8      |

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX MIN. COMPONENT REACTIONS | PERM. LIVE | WIND       | DEAD  | SOIL    |
|----|-----------|------------------------------|------------|------------|-------|---------|
| JT | COMBINED  | SNOW                         | LIVE       | PERM. LIVE | WIND  | DEAD    |
| J  | 1143      | 807 / 0                      | 162 / 0    | 0 / 0      | 0 / 0 | 174 / 0 |
| G  | 1143      | 807 / 0                      | 162 / 0    | 0 / 0      | 0 / 0 | 174 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) J, G

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.35 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                                | WEBS     |                           |                                |                                |
|--------|---------------------------|---------------------------|--------------------------------|----------|---------------------------|--------------------------------|--------------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC1) | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC1) |
| FR-TO  |                           | FROM TO                   | LENGTH FR-TO                   | FR-TO    |                           | FROM TO                        | LENGTH FR-TO                   |
| A-B    | 0 / 54                    | -122.2 -122.2             | 0.19 (1)                       | 10.00    | I-C                       | -134 / 185                     | 0.05 (1)                       |
| B-C    | -1170 / 0                 | -122.2 -122.2             | 0.39 (1)                       | 5.35     | C-H                       | 0 / 1                          | 0.00 (3)                       |
| C-K    | -893 / 0                  | -122.2 -122.2             | 0.43 (1)                       | 5.81     | H-D                       | -135 / 186                     | 0.05 (1)                       |
| K-D    | -893 / 0                  | -122.2 -122.2             | 0.43 (1)                       | 5.81     | B-I                       | 0 / 943                        | 0.23 (1)                       |
| D-E    | -1170 / 0                 | -122.2 -122.2             | 0.39 (1)                       | 5.35     | H-E                       | 0 / 943                        | 0.23 (1)                       |
| E-F    | 0 / 54                    | -122.2 -122.2             | 0.19 (1)                       | 10.00    |                           |                                |                                |
| J-B    | -1452 / 0                 | 0.0                       | 0.0                            | 17.1 (1) | 6.74                      |                                |                                |
| G-E    | -1452 / 0                 | 0.0                       | 0.0                            | 17.1 (1) | 6.74                      |                                |                                |
| J-L    | 0 / 0                     | -28.0                     | -28.0                          | 0.15 (3) | 10.00                     |                                |                                |
| L-I    | 0 / 0                     | -28.0                     | -28.0                          | 0.15 (3) | 10.00                     |                                |                                |
| I-M    | 0 / 893                   | -28.0                     | -28.0                          | 0.22 (1) | 10.00                     |                                |                                |
| M-H    | 0 / 893                   | -28.0                     | -28.0                          | 0.22 (1) | 10.00                     |                                |                                |
| H-N    | 0 / 0                     | -28.0                     | -28.0                          | 0.15 (2) | 10.00                     |                                |                                |
| N-G    | 0 / 0                     | -28.0                     | -28.0                          | 0.15 (2) | 10.00                     |                                |                                |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  |
|----|--------|------|------|------|-------|------|-------|
| C  | 3-10-8 | -384 | -384 | ---  | FRONT | VERT | TOTAL |
| D  | 7-3-8  | -384 | -384 | ---  | FRONT | VERT | TOTAL |
| H  | 7-2-12 | -24  | -42  | ---  | FRONT | VERT | TOTAL |
| I  | 3-11-4 | -24  | -42  | ---  | FRONT | VERT | TOTAL |
| K  | 5-7-0  | -115 | -115 | ---  | FRONT | VERT | TOTAL |
| L  | 1-11-4 | -24  | -42  | ---  | FRONT | VERT | TOTAL |
| M  | 5-7-0  | -24  | -42  | ---  | FRONT | VERT | TOTAL |
| N  | 9-2-12 | -24  | -42  | ---  | FRONT | VERT | TOTAL |



#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 38.3 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 58.7 PSF

SPACING = 24.0 IN. G/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.37")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.37")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.43 (C-D:1), BC=0.22 (H-I:1), WB=0.23 (B-I:1), SSI=0.23 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00  
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 822 2284 1658

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

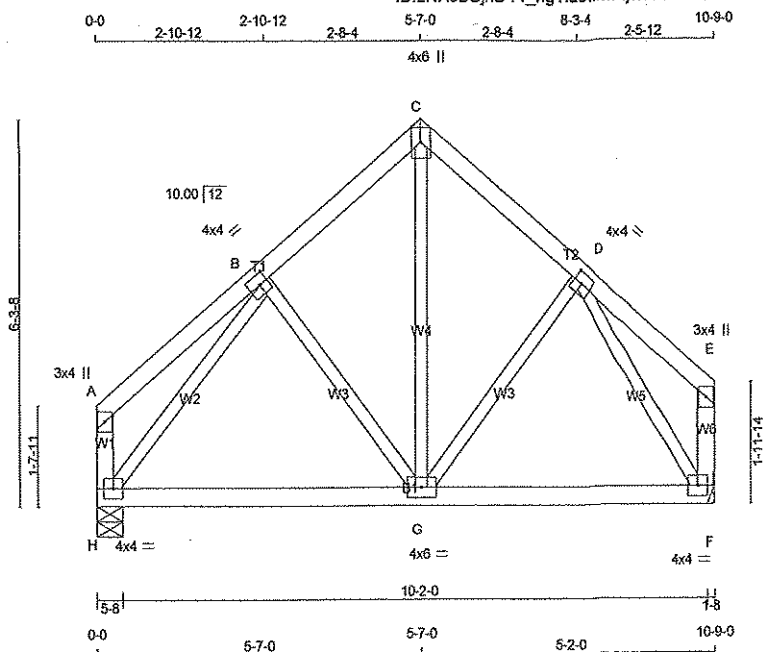
JSI GRIP= 0.79 (I) (INPUT = 0.90)  
JSI METAL= 0.33 (I) (INPUT = 1.00)

DWG NO. TAM46045-17  
STRUCTURAL  
COMPONENT ONLY

|                                                                                   |                          |                      |                 |                    |          |
|-----------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|--------------------|----------|
| JOB NAME<br><b>272497</b>                                                         | TRUSS NAME<br><b>T19</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br>42087 | DRWG NO. |
| Version 8.030 S Oct 5 2016 Mitek Industries, Inc. Mon Sep 11 16:06:48 2017 Page 1 |                          |                      |                 |                    |          |

Tamarack Roof Truss, Burlington

ID:LNxBSSjhD44\_hgTiuowkTXyk11V-6eArKtdFSDxzNmrgRB\_?uRGpTy?mwqY1SM7\_Aoyeg6b



Scale = 1:38.1

TOTAL WEIGHT = 50 lb

| LUMBER            |        |      |      |        |
|-------------------|--------|------|------|--------|
| N. L. G. A. RULES | CHORDS | SIZE | DRY  | LUMBER |
| A - C             | 2x4    | DRY  | No.2 | SPF    |
| C - E             | 2x4    | DRY  | No.2 | SPF    |
| H - A             | 2x4    | DRY  | No.2 | SPF    |
| F - E             | 2x4    | DRY  | No.2 | SPF    |
| H - F             | 2x4    | DRY  | No.2 | SPF    |
| ALL WEBS EXCEPT   | 2x3    | DRY  | No.2 | SPF    |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| A  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| B  | TMWW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| C  | TTW+p   | MT20   | 4.0 | 6.0 | Edge |      |
| D  | TMWW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| E  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| F  | BMVW1-t | MT20   | 4.0 | 4.0 |      |      |
| G  | BMVW1-t | MT20   | 4.0 | 6.0 |      |      |
| H  | BMVW1-t | MT20   | 4.0 | 4.0 |      |      |

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

| BEARINGS |      | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT | REQD   |
|----------|------|-------------------------|---------------------------------|-------|--------|
| JT       | VERT | HORZ                    | DOWN                            | HORZ  | UPLIFT |
| H        | 807  | 0                       | 807                             | 0     | 0      |
| F        | 807  | 0                       | 807                             | 0     | 0      |

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|------------------------------|------------|-------|---------|-------|
| H  | 631       | 411 / 0                      | 113 / 0    | 0 / 0 | 107 / 0 | 0 / 0 |
| F  | 631       | 411 / 0                      | 113 / 0    | 0 / 0 | 107 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) H

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           | WEBS  |                           |
|--------|---------------------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           | FR-TO |                           |
| A-B    | 0 / 24                    | B-G   | -149 / 35                 |
| B-C    | -517 / 0                  | G-C   | 0 / 359                   |
| C-D    | -514 / 0                  | G-D   | -72 / 55                  |
| D-E    | 0 / 24                    | H-B   | -775 / 0                  |
| H-A    | -131 / 0                  | D-F   | -770 / 0                  |
| F-E    | -109 / 0                  |       |                           |
| H-G    | 0 / 471                   |       |                           |
| G-F    | 0 / 423                   |       |                           |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 38.3 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 58.7 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 088-09  
- TPIC 2011

(55 % OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.36")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
ALLOWABLE DEFL.(TL) = L/360 (0.36")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.15 (A-B:1), BC=0.28 (G-H:2), WB=0.26 (B-H:1), SS=0.13 (G-H:3)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1867 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (B) (INPUT = 0.90)  
JSI METAL= 0.28 (B) (INPUT = 1.00)

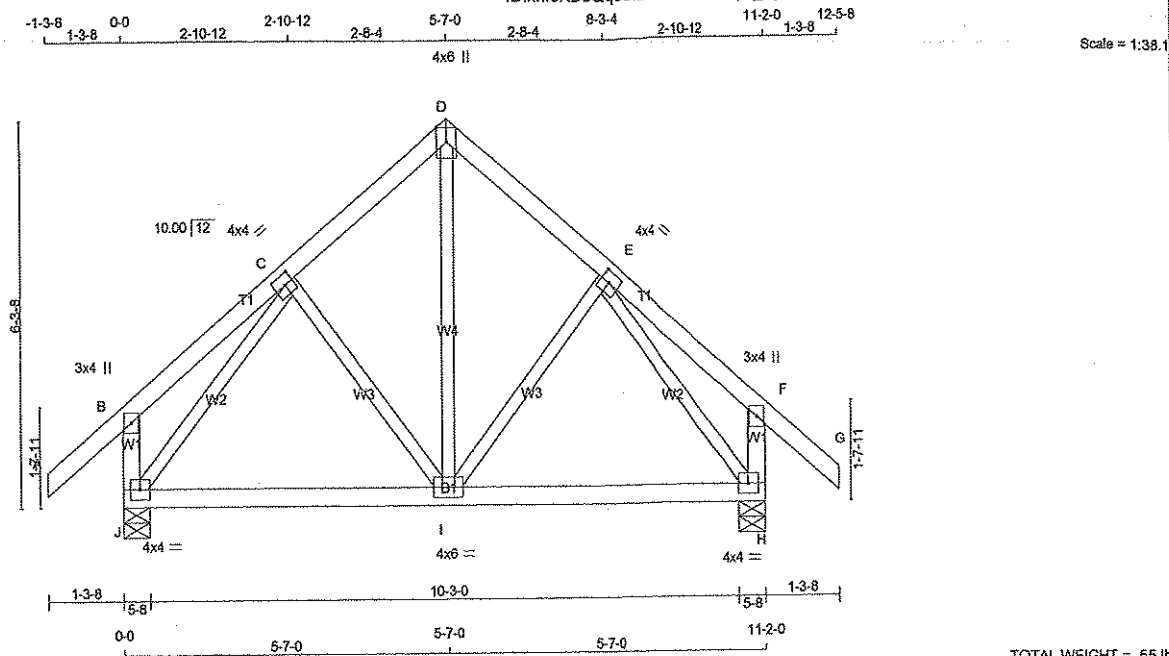


DWG NO. TAM46037-17  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 42067 | DRWG NO. |
| 272498   | T19X       | 1        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 MiTek Industries, Inc. Mon Sep 11 16:17:37 2017 Page 1  
ID: xh1cKDsQqeSIMYwVwVvQwyk\_Hj-cVuCYOULcdiukVvPz77BllfjLZVIUL\_ZlrqqSgyefys



| LUMBER | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|--------|-------------------|--------|------|--------|--------|
| A - D  | 2x4 DRY No.2      | SPF    |      |        |        |
| D - G  | 2x4 DRY No.2      | SPF    |      |        |        |
| J - B  | 2x4 DRY No.2      | SPF    |      |        |        |
| H - F  | 2x4 DRY No.2      | SPF    |      |        |        |
| J - H  | 2x4 DRY No.2      | SPF    |      |        |        |

ALL WEBS 2x3 DRY No.2  
EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TTW+p  | MT20   | 4.0 | 6.0 | Edge |      |
| E  | TMWW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| F  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVW-t | MT20   | 4.0 | 4.0 |      |      |
| I  | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| J  | BMVW-t | MT20   | 4.0 | 4.0 |      |      |

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| J  | 1008                    | 0    | 1008                            | 0    | 5-8             | 5-8            |
| H  | 1008                    | 0    | 1008                            | 0    | 5-8             | 5-8            |

##### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED |         | MAX./MIN. COMPONENT REACTIONS |       | WIND  | DEAD    | SOIL  |
|----|--------------------|---------|-------------------------------|-------|-------|---------|-------|
|    | SNOW               | LIVE    | PERM. LIVE                    | WIND  |       |         |       |
| J  | 770                | 533 / 0 | 117 / 0                       | 0 / 0 | 0 / 0 | 120 / 0 | 0 / 0 |
| H  | 770                | 533 / 0 | 117 / 0                       | 0 / 0 | 0 / 0 | 120 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) J, H

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                        | WEBS  |                           |                        |  |
|--------|---------------------------|---------------------------|------------------------|-------|---------------------------|------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |  |
| FR-TO  |                           | FROM TO                   | LENGTH                 | FR-TO |                           |                        |  |
| A-B    | 0 / 54                    | -122.2 -122.2             | 0.17 (1)               | 10.00 | I-D                       | 0 / 412                |  |
| B-C    | 0 / 24                    | -122.2 -122.2             | 0.15 (1)               | 10.00 | I-E                       | -139 / 39              |  |
| C-D    | -557 / 0                  | -122.2 -122.2             | 0.11 (1)               | 6.25  | C-I                       | -139 / 39              |  |
| D-E    | -557 / 0                  | -122.2 -122.2             | 0.11 (1)               | 6.25  | J-C                       | -815 / 0               |  |
| E-F    | 0 / 24                    | -122.2 -122.2             | 0.15 (1)               | 10.00 | E-H                       | -815 / 0               |  |
| F-G    | 0 / 54                    | -122.2 -122.2             | 0.17 (1)               | 10.00 |                           |                        |  |
| J-B    | -300 / 0                  | 0.0                       | 0.03 (1)               | 7.81  |                           |                        |  |
| H-F    | -300 / 0                  | 0.0                       | 0.03 (1)               | 7.81  |                           |                        |  |
| J-I    | 0 / 496                   | -28.0                     | -28.0 0.30 (2)         | 10.00 |                           |                        |  |
| I-H    | 0 / 496                   | -28.0                     | -28.0 0.30 (2)         | 10.00 |                           |                        |  |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 38.3 PSF |
| DL         | = 3.0 PSF  |
| BOT CH. LL | = 10.5 PSF |
| DL         | = 7.0 PSF  |
| TOTAL LOAD | = 58.7 PSF |

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 088-09  
- TPIC 2011

(55 % OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)=  $L/360$  (0.37")  
CALCULATED VERT. DEFL.(LL)=  $L/999$  (0.03")  
ALLOWABLE DEFL.(TL)=  $L/360$  (0.37")  
CALCULATED VERT. DEFL.(TL)=  $L/999$  (0.05")

CSI: TC=0.17 (A-B:1), BC=0.30 (I-J:2), WB=0.27 (E-H:1), SSI=0.13 (I-J:3)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

| PLATE | GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-------|-----------|-------------|---------------|
| MT20  | 618       | 354         | 1667          |
|       | 822       | 2284        | 1656          |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (E) (INPUT = 0.90)  
JSI METAL= 0.30 (E) (INPUT = 1.00)



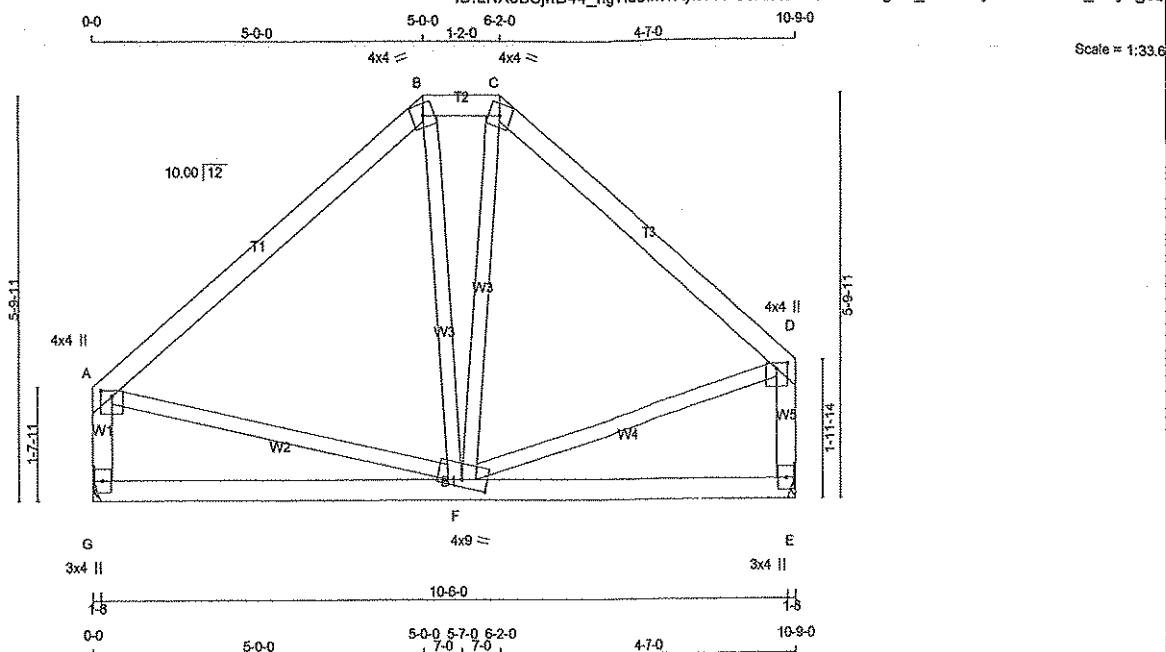
OWNED BY TAM 46046-17  
STRUCTURAL  
COMPONENT ONLY

|                           |                          |                      |                 |                                   |          |
|---------------------------|--------------------------|----------------------|-----------------|-----------------------------------|----------|
| JOB NAME<br><b>272497</b> | TRUSS NAME<br><b>T20</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br>42067<br>TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|-----------------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 Mitek Industries, Inc. Mon Sep 11 16:06:48 2017 Page 1

ID:LNxeBSjhD44\_hgTiuowkTXyk11V-6eArkTdFSdxzNmrgRB\_?uRGlay0Ow21SM7\_Aoyeg6b



TOTAL WEIGHT = 48 lb

| LUMBER            |         |        |        |
|-------------------|---------|--------|--------|
| N. L. G. A. RULES |         |        |        |
| CHORDS            | SIZE    | LUMBER | DESCR. |
| A - B             | 2x4 DRY | No.2   | SPF    |
| B - C             | 2x4 DRY | No.2   | SPF    |
| C - D             | 2x4 DRY | No.2   | SPF    |
| G - A             | 2x4 DRY | No.2   | SPF    |
| E - D             | 2x4 DRY | No.2   | SPF    |
| G - E             | 2x4 DRY | No.2   | SPF    |

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE        | PLATES | W   | LEN | Y    | X    |
|----|-------------|--------|-----|-----|------|------|
| A  | TMVW+p      | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| B  | TTW-m       | MT20   | 4.0 | 4.0 |      |      |
| C  | TTW-m       | MT20   | 4.0 | 4.0 |      |      |
| D  | TMVW+p      | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| E  | BMV1+p      | MT20   | 3.0 | 4.0 |      |      |
| F  | BMVWWV+MT20 | MT20   | 4.0 | 9.0 | 4.50 | 1.25 |
| G  | BMV1+p      | MT20   | 3.0 | 4.0 |      |      |

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ | IN-SX     | IN-SX    |
| G  | 807                     | 0    | 807                             | 0    | 0         |          |
| E  | 807                     | 0    | 807                             | 0    | 0         |          |

HANGER BY OTHERS  
MIN. SEAT SIZE: 1-8  
HANGER BY OTHERS  
MIN. SEAT SIZE: 1-8

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX. MIN. COMPONENT REACTIONS |         |            |       |         |       |
|----|-----------|-------------------------------|---------|------------|-------|---------|-------|
|    | COMBINED  | SNOW                          | LIVE    | PERM. LIVE | WIND  | DEAD    | SOIL  |
| G  | 631       | 411 / 0                       | 113 / 0 | 0 / 0      | 0 / 0 | 107 / 0 | 0 / 0 |
| E  | 631       | 411 / 0                       | 113 / 0 | 0 / 0      | 0 / 0 | 107 / 0 | 0 / 0 |

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED         |               | WEBS  |             | MAX. FACTORED |  |
|--------|-------------|------------------|---------------|-------|-------------|---------------|--|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | MAX. CSI (LC) | MEMB. | FORCE (LBS) | MAX. CSI (LC) |  |
| FR-TO  |             | FROM TO          |               | FR-TO |             |               |  |
| A-B    | -537 / 0    | -122.2 -122.2    | 0.40 (1)      | A-F   | 0 / 422     | 0.10 (1)      |  |
| B-C    | -408 / 0    | -122.2 -122.2    | 0.02 (1)      | F-D   | 0 / 429     | 0.10 (1)      |  |
| C-D    | -534 / 0    | -122.2 -122.2    | 0.33 (1)      | B-F   | -32 / 118   | 0.03 (3)      |  |
| G-A    | -748 / 0    | 0.0 0.0          | 0.08 (1)      | F-C   | -9 / 119    | 0.03 (3)      |  |
| E-D    | -754 / 0    | 0.0 0.0          | 0.09 (1)      |       |             |               |  |
| G-F    | 0 / 0       | -28.0 -28.0      | 0.24 (3)      |       |             |               |  |
| F-E    | 0 / 0       | -28.0 -28.0      | 0.24 (3)      |       |             |               |  |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 38.3 PSF |
| DL         | = 3.0 PSF  |
| BOT CH. LL | = 10.5 PSF |
| DL         | = 7.0 PSF  |
| TOTAL LOAD | = 58.7 PSF |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55 % OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.38")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
ALLOWABLE DEFL.(TL)= L/360 (0.36")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.40 (A-B:1), BC=0.24 (E-F:3), WB=0.10 (D-F:1), SSI=0.18 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.70 (A) (INPUT = 0.80)  
JSI METAL= 0.19 (A) (INPUT = 1.00)

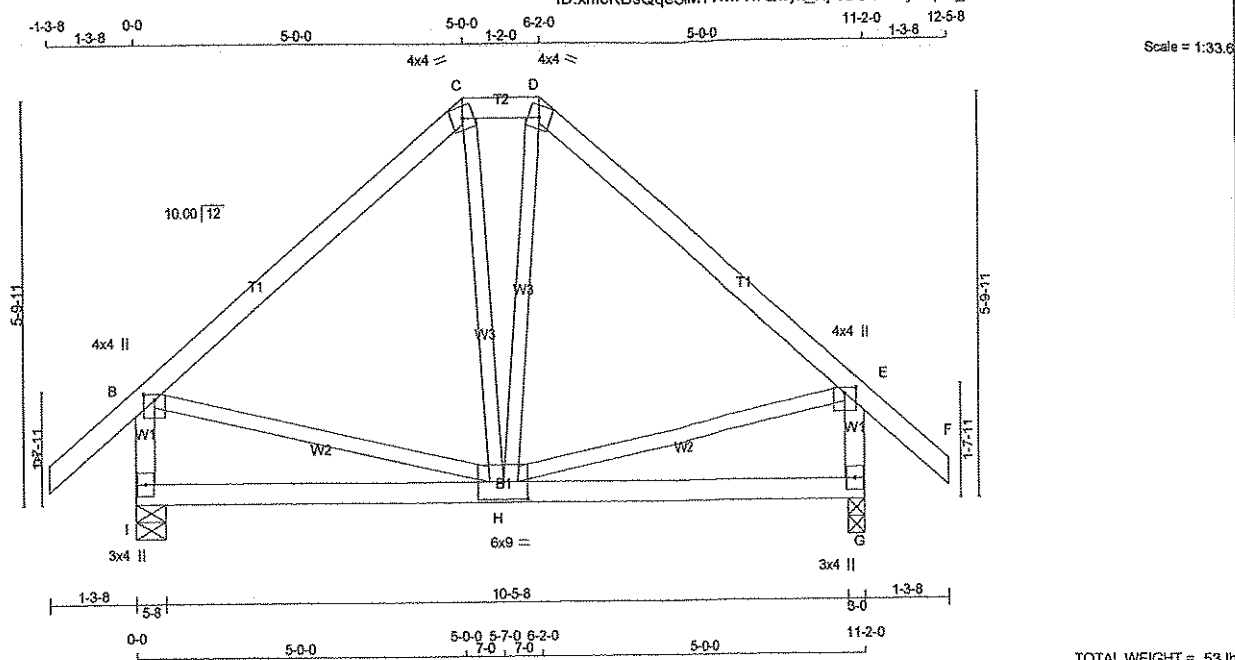


DWG NO. TAM 4603817  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 42067 | DRWG NO. |
| 272498   | T20X       | 1        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 Mitek Industries, Inc. Mon Sep 11 16:19:09 2017 Page 1  
ID: xhlcKDsQqSiMYWhVlvQwyk\_Hj-vBSzrb3yulqne\_4MJnmQISNZfwT2?O5s97ihLyefx0



| LUMBER | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|--------|-------------------|--------|------|--------|--------|
| A - C  | 2x4 DRY           | No.2   | SPF  |        |        |
| C - D  | 2x4 DRY           | No.2   | SPF  |        |        |
| D - F  | 2x4 DRY           | No.2   | SPF  |        |        |
| I - B  | 2x4 DRY           | No.2   | SPF  |        |        |
| G - E  | 2x4 DRY           | No.2   | SPF  |        |        |
| I - G  | 2x4 DRY           | No.2   | SPF  |        |        |

ALL WEBS 2x3 DRY No.2  
EXCEPT  
DRY: SEASONED LUMBER

| PLATES (table is in inches) | JT       | TYPE | PLATES | W   | LEN  | Y    | X |
|-----------------------------|----------|------|--------|-----|------|------|---|
| B                           | TMVW+p   | MT20 | 4.0    | 4.0 | 1.00 | 2.00 |   |
| C                           | TTW-m    | MT20 | 4.0    | 4.0 |      |      |   |
| D                           | TTW-m    | MT20 | 4.0    | 4.0 |      |      |   |
| E                           | TMVW+p   | MT20 | 4.0    | 4.0 | 1.00 | 2.00 |   |
| G                           | BMV1+p   | MT20 | 3.0    | 4.0 |      |      |   |
| H                           | BMVWWV-I | MT20 | 6.0    | 9.0 | 3.00 | 4.50 |   |
| I                           | BMV1+p   | MT20 | 3.0    | 4.0 |      |      |   |

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

| BEARINGS |      | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |        | INPUT BRG |       | REQD BRG |       |
|----------|------|-------------------------|------|---------------------------------|--------|-----------|-------|----------|-------|
| JT       | VERT | HORZ                    | DOWN | HORZ                            | UPLIFT | IN-SX     | IN-SX | IN-SX    | IN-SX |
| I        | 1008 | 0                       | 1008 | 0                               | 0      | 5-8       | 5-8   | 3-0      | 3-0   |
| G        | 1008 | 0                       | 1008 | 0                               | 0      | 3-0       | 3-0   |          |       |

| UNFACTORED REACTIONS |          | 1ST LCASE |         | MAX / MIN. COMPONENT REACTIONS |       |         |       |  |  |
|----------------------|----------|-----------|---------|--------------------------------|-------|---------|-------|--|--|
| JT                   | COMBINED | SNOW      | LIVE    | PERM. LIVE                     | WIND  | DEAD    | SOIL  |  |  |
| I                    | 770      | 533 / 0   | 117 / 0 | 0 / 0                          | 0 / 0 | 120 / 0 | 0 / 0 |  |  |
| G                    | 770      | 533 / 0   | 117 / 0 | 0 / 0                          | 0 / 0 | 120 / 0 | 0 / 0 |  |  |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) I, G

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED   |         | WEBS     |             | FACTORED |          |
|--------|-------------|------------|---------|----------|-------------|----------|----------|
| MEMB.  | FORCE (LBS) | VERT. LOAD | LC1 MAX | MEMB.    | FORCE (LBS) | MAX      | CS1 (LC) |
| FR-TO  |             | FROM       | TO      | LENGTH   | FR-TO       |          |          |
| A-B    | 0 / 54      | -122.2     | -122.2  | 0.17 (1) | 10.00       | B-H      | 0 / 454  |
| B-C    | -576 / 0    | -122.2     | -122.2  | 0.40 (1) | 6.25        | H-E      | 0 / 454  |
| C-D    | -441 / 0    | -122.2     | -122.2  | 0.02 (1) | 6.25        | C-H      | -7 / 129 |
| D-E    | -576 / 0    | -122.2     | -122.2  | 0.40 (1) | 6.25        | H-D      | -7 / 129 |
| E-F    | 0 / 54      | -122.2     | -122.2  | 0.17 (1) | 10.00       |          |          |
| I-B    | -948 / 0    | 0.0        | 0.0     | 0.10 (1) | 7.81        |          |          |
| G-E    | -948 / 0    | 0.0        | 0.0     | 0.10 (1) | 7.81        |          |          |
| I-H    | 0 / 0       | -28.0      | -28.0   | 0.26 (3) | 10.00       |          |          |
| H-G    | 0 / 0       | -28.0      | -28.0   | 0.26 (3) | 10.00       |          |          |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 38.3 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 58.7 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) =  $L/360$  (0.37")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.03")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.37")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.05")

CS1: TC=0.40 (B-C:1), BC=0.26 (H-I:3), WB=0.10 (E-H:1), SSI=0.18 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 822 2284 1656

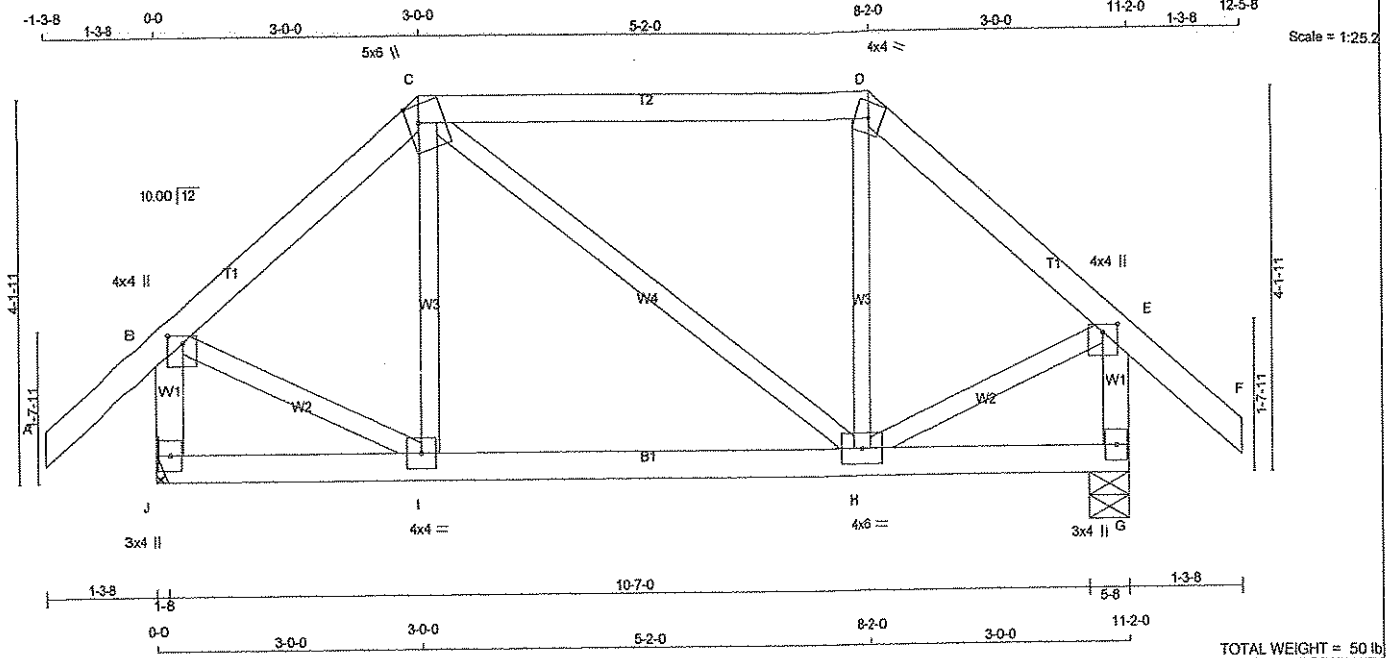
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg

JSI GRIP= 0.85 (B) (INPUT = 0.90)  
JSI METAL= 0.23 (B) (INPUT = 1.00)



DRWG NO. TAM 46047-17  
STRUCTURAL  
COMPONENT ONLY



TOTAL WEIGHT = 50 lb  
[M][F]

LUMBER

## N. L. G. A. RULES

| CHORDS | SIZE | LUMBER   | DESCR |
|--------|------|----------|-------|
| A - C  | 2x4  | DRY No.2 | SPF   |
| C - D  | 2x4  | DRY No.2 | SPF   |
| D - F  | 2x4  | DRY No.2 | SPF   |
| J - B  | 2x4  | DRY No.2 | SPF   |
| G - E  | 2x4  | DRY No.2 | SPF   |
| J - G  | 2x4  | DRY No.2 | SPF   |

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT

DRY: SEASONED LUMBER.

**PLATES** (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMWV+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| C  | TTWVV+m | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| D  | TTW-m   | MT20   | 4.0 | 4.0 |      |      |
| E  | TMWV+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| G  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| H  | BMWWW-t | MT20   | 4.0 | 6.0 |      |      |
| I  | BMWWW-t | MT20   | 4.0 | 4.0 |      |      |
| J  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

## BEARINGS

|    | FACTORED<br>GROSS REACTION |      | MAXIMUM FACTORED<br>GROSS REACTION |      | INPUT<br>BRG | REQD<br>BRG                    |
|----|----------------------------|------|------------------------------------|------|--------------|--------------------------------|
| JT | VERT                       | HORZ | DOWN                               | HORZ | UPLIFT       | IN-SX                          |
| J  | 1008                       | 0    | 1008                               | 0    | 0            | HANGER BY OTHERS               |
| G  | 1008                       | 0    | 1008                               | 0    | 0            | MIN. SEAT SIZE: 1-8<br>5-8 5-8 |

### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |         |           |       |         |       |
|-----------|----------|-------------------------------|---------|-----------|-------|---------|-------|
| JT        | COMBINED | SNOW                          | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |
| J         | 770      | 533 / 0                       | 117 / 0 | 0 / 0     | 0 / 0 | 120 / 0 | 0 / 0 |
| G         | 770      | 533 / 0                       | 117 / 0 | 0 / 0     | 0 / 0 | 120 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) G

## BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY  
APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

**LOADING**

**TOTAL LOAD CASES: (4)**

| CHORDS        |             |            |        |              | WEBS          |       |             |              |  |
|---------------|-------------|------------|--------|--------------|---------------|-------|-------------|--------------|--|
| MAX. FACTORED |             | FACTORED   |        |              | MAX. FACTORED |       | FACTORED    |              |  |
| MEMB.         | FORCE (LBS) | VERT. LOAD | LC1    | MAX CSI (LC) | MAX. UNBRAC   | MEMB. | FORCE (LBS) | MAX CSI (LC) |  |
| FR-TO         |             | FROM       | TO     |              | LENGTH        | FR-TO |             |              |  |
| A-B           | 0/54        | -122.2     | -122.2 | 0.17 (1)     | 10.00         | I-C   | -81 / 140   | 0.03 (3)     |  |
| B-C           | -649/0      | -122.2     | -122.2 | 0.15 (1)     | 6.25          | C-H   | 0/0         | 0.00 (1)     |  |
| C-D           | -495/0      | -122.2     | -122.2 | 0.42 (1)     | 6.25          | H-D   | -81 / 140   | 0.03 (3)     |  |
| D-E           | -649/0      | -122.2     | -122.2 | 0.15 (1)     | 6.25          | B-I   | 0/ 539      | 0.12 (1)     |  |
| E-F           | 0/54        | -122.2     | -122.2 | 0.17 (1)     | 10.00         | H-E   | 0/ 539      | 0.12 (1)     |  |
| J-B           | -979/0      | 0.0        | 0.0    | 0.10 (1)     | 7.81          |       |             |              |  |
| G-E           | -979/0      | 0.0        | 0.0    | 0.10 (1)     | 7.81          |       |             |              |  |
| J-I           | 0/0         | -28.0      | -28.0  | 0.12 (3)     | 10.00         |       |             |              |  |
| I-H           | 0/ 495      | -28.0      | -28.0  | 0.17 (2)     | 10.00         |       |             |              |  |
| H-G           | 0/0         | -28.0      | -28.0  | 0.12 (3)     | 10.00         |       |             |              |  |

### DESIGN CRITERIA

SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 38.3 | PSF |
|            | DL | = | 3.0  | PSF |
| BOT CH.    | LL | = | 10.5 | PSF |
|            | DL | = | 7.0  | PSF |
| TOTAL LOAD |    | = | 58.7 | PSF |

SPACING =      24.0      IN. C/C

LOADING IN FLAT SECTION BASED ON A  
SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL  
OR SMALL BUILDING REQUIREMENTS OF  
PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55 % OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.37")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL)= L/360 (0.37")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.42 (C-D:1), BC=0.17 (H-I:2), WB=0.12 (B-I:1), SS=0.25 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

| NAIL VALUES |                 |     |       |     |         |      |
|-------------|-----------------|-----|-------|-----|---------|------|
|             | PLATE GRIP(DRY) |     | SHEAR |     | SECTION |      |
|             | (PSI)           |     | (PLI) |     | (PLI)   |      |
|             | MAX             | MIN | MAX   | MIN | MAX     | MIN  |
| MT20        | 618             | 354 | 1657  | 822 | 2284    | 1656 |

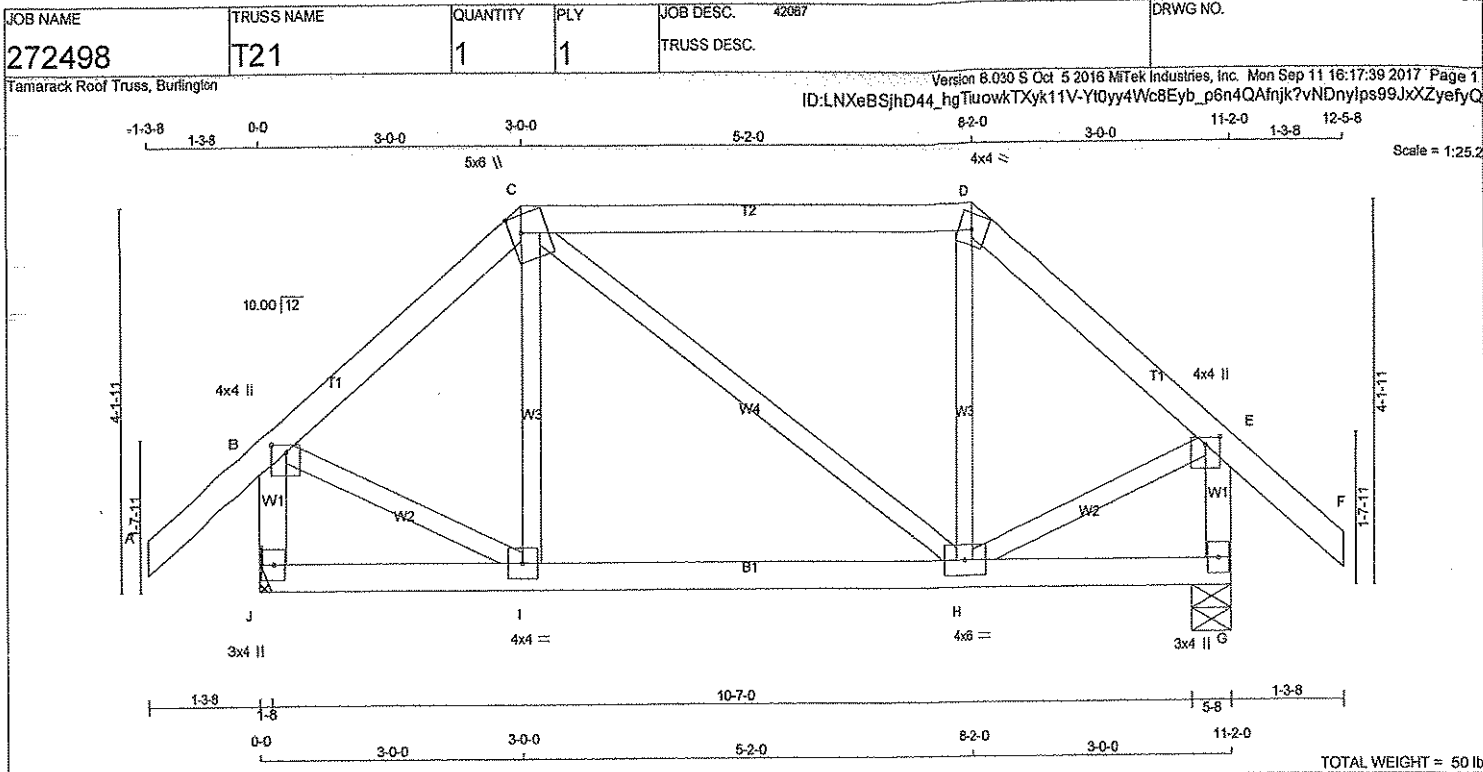
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (B) (INPUT = 0.90 )  
JSI METAL= 0.23 (B) (INPUT = 1.00 )



DWGD. TAM 46039-17  
STRUCTURAL  
COMPONENT ONLY



| LUMBER            |      |        |        |     |
|-------------------|------|--------|--------|-----|
| N. L. G. A. RULES |      |        |        |     |
| CHORDS            | SIZE | LUMBER | DESCR. |     |
| A - C             | 2x4  | DRY    | No.2   | SPF |
| C - D             | 2x4  | DRY    | No.2   | SPF |
| D - F             | 2x4  | DRY    | No.2   | SPF |
| J - B             | 2x4  | DRY    | No.2   | SPF |
| G - E             | 2x4  | DRY    | No.2   | SPF |
| J - G             | 2x4  | DRY    | No.2   | SPF |

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| C  | TTWW+m  | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| D  | TTW-m   | MT20   | 4.0 | 4.0 |      |      |
| E  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| G  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVWV-i | MT20   | 4.0 | 6.0 |      |      |
| I  | BMVWV-i | MT20   | 4.0 | 4.0 |      |      |
| J  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQRD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|-----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                 |
| J  | 1008                    | 0    | 1008                            | 0    | 0               |                 |
| G  | 1008                    | 0    | 1008                            | 0    | 5-8             | 5-8             |

##### UNFACTORED REACTIONS

| JT | 1ST LCASE |         | MAX /MIN. COMPONENT REACTIONS |            | WIND  | DEAD    | SOIL  |
|----|-----------|---------|-------------------------------|------------|-------|---------|-------|
|    | COMBINED  | SNOW    | LIVE                          | PERM. LIVE |       |         |       |
| J  | 770       | 533 / 0 | 117 / 0                       | 0 / 0      | 0 / 0 | 120 / 0 | 0 / 0 |
| G  | 770       | 533 / 0 | 117 / 0                       | 0 / 0      | 0 / 0 | 120 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) G

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               | WEBS     |                           |               |          |
|--------|---------------------------|---------------------------|---------------|----------|---------------------------|---------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS1 (LC) | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |          |
| FR-TO  |                           | FROM TO                   | LENGTH        | FR-TO    |                           |               |          |
| A-B    | 0 / 54                    | -122.2 -122.2             | 0.17 (1)      | 10.00    | I-C                       | -81 / 140     | 0.03 (3) |
| B-C    | -649 / 0                  | -122.2 -122.2             | 0.15 (1)      | 6.25     | C-H                       | 0 / 0         | 0.00 (1) |
| C-D    | -495 / 0                  | -122.2 -122.2             | 0.42 (1)      | 6.25     | H-D                       | -81 / 140     | 0.03 (3) |
| D-E    | -649 / 0                  | -122.2 -122.2             | 0.15 (1)      | 6.25     | B-I                       | 0 / 539       | 0.12 (1) |
| E-F    | 0 / 54                    | -122.2 -122.2             | 0.17 (1)      | 10.00    | H-E                       | 0 / 539       | 0.12 (1) |
| J-B    | -979 / 0                  | 0.0                       | 0.0           | 10.00    |                           |               |          |
| G-E    | -979 / 0                  | 0.0                       | 0.0           | 10.00    |                           |               |          |
| J-I    | 0 / 0                     | -28.0                     | -28.0         | 0.12 (3) | 10.00                     |               |          |
| I-H    | 0 / 495                   | -28.0                     | -28.0         | 0.17 (2) | 10.00                     |               |          |
| H-G    | 0 / 0                     | -28.0                     | -28.0         | 0.12 (3) | 10.00                     |               |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 38.3 PSF |
| DL         | = 3.0 PSF  |
| BOT CH. LL | = 10.5 PSF |
| DL         | = 7.0 PSF  |
| TOTAL LOAD | = 58.7 PSF |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 088-09  
- TPIC 2011

(55 % OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.37")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.02")  
ALLOWABLE DEFL. (TL) = L/360 (0.37")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.03")

CSI: TC=0.42 (C-D:1), BC=0.17 (H-I:2), WB=0.12 (B-I:1), SSI=0.25 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

##### NAIL VALUES

| PLATE GRIP (DRY) SHEAR (PSI) | SECTION (PLI) | MAX MIN | MAX MIN | MAX MIN       |
|------------------------------|---------------|---------|---------|---------------|
| MT20                         | 618           | 354     | 1667    | 822 2284 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (B) (INPUT = 0.90)  
JSI METAL= 0.23 (B) (INPUT = 1.00)



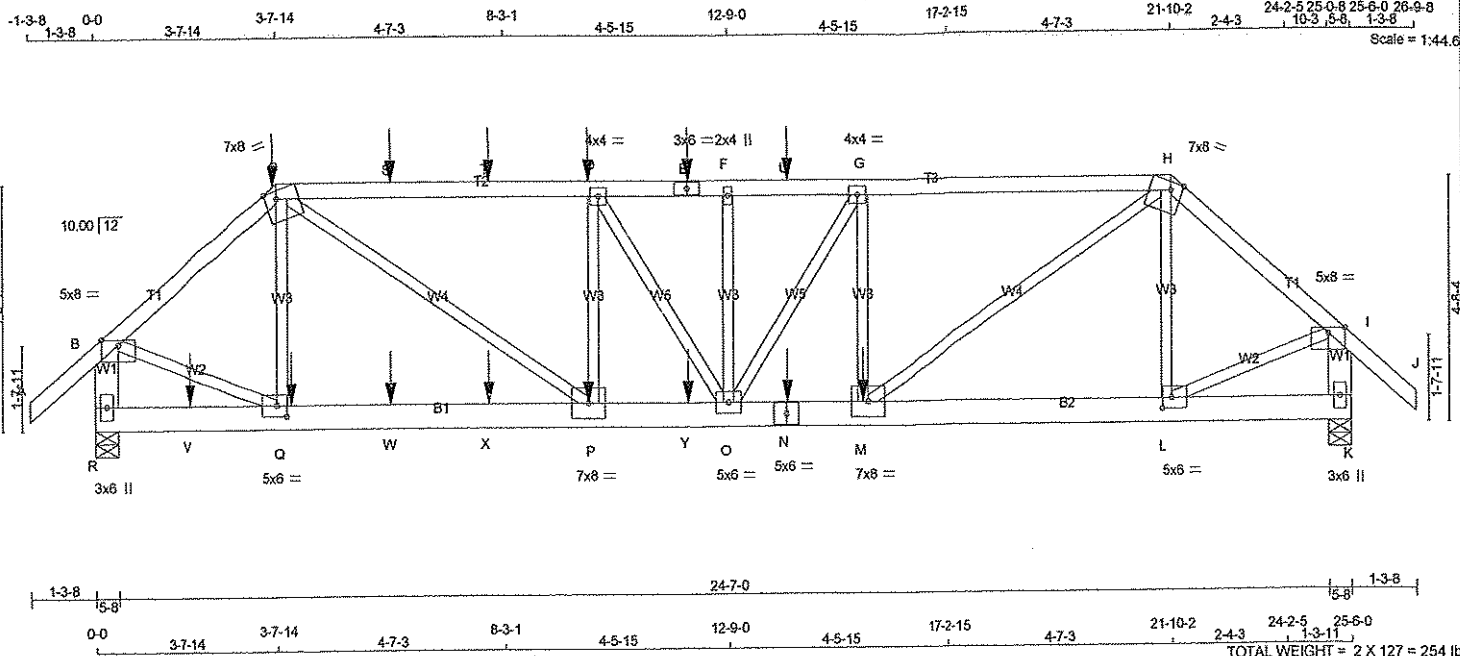
DRWG NO. TAM 46048-17  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 42067 | DRWG NO. |
| 272498   | T31        | 1        | 2   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 Mitek Industries, Inc. Mon Sep 11 16:17:38 2017 Page 1

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| LUMBER | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|--------|-------------------|--------|------|--------|--------|
| A - C  | 2x4               | DRY    | No.2 | SPF    |        |
| C - E  | 2x4               | DRY    | No.2 | SPF    |        |
| E - H  | 2x4               | DRY    | No.2 | SPF    |        |
| H - J  | 2x4               | DRY    | No.2 | SPF    |        |
| K - I  | 2x6               | DRY    | No.2 | SPF    |        |
| R - B  | 2x6               | DRY    | No.2 | SPF    |        |
| R - N  | 2x6               | DRY    | No.2 | SPF    |        |
| N - K  | 2x6               | DRY    | No.2 | SPF    |        |

ALL WEBS 2x3 DRY No.2  
EXCEPT

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

| CHORDS #ROWS                            | SURFACE SPACING (IN) | LOAD(PLF)   |
|-----------------------------------------|----------------------|-------------|
| TOP CHORDS: (0.122"x3") SPIRAL NAILS    |                      |             |
| A-C                                     | 12                   | SIDE(61.0)  |
| C-E                                     | 12                   | SIDE(61.0)  |
| E-H                                     | 12                   | SIDE(0.0)   |
| H-J                                     | 12                   | TOP         |
| I-K                                     | 12                   | TOP         |
| R-B                                     | 12                   | TOP         |
| BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS |                      |             |
| R-N                                     | 12                   | SIDE(183.1) |
| N-K                                     | 12                   | SIDE(183.1) |
| WEBS: (0.122"x3") SPIRAL NAILS          |                      |             |
| 2x3                                     | 6                    | SIDE(335.2) |
| G-M                                     | 6                    |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

| PLATES (table is in inches) | JT TYPE | PLATES | W   | LEN | Y         | X    |
|-----------------------------|---------|--------|-----|-----|-----------|------|
| B                           | TMVW-p  | MT20   | 5.0 | 8.0 | Edge      |      |
| C                           | TTWW-m  | MT20   | 7.0 | 8.0 | Edge 2.75 |      |
| D                           | TMWW-t  | MT20   | 4.0 | 4.0 |           |      |
| E                           | TS-t    | MT20   | 3.0 | 6.0 |           |      |
| F                           | TMW-w   | MT20   | 2.0 | 4.0 |           |      |
| G                           | TMWW-t  | MT20   | 4.0 | 4.0 |           |      |
| H                           | TTWW-m  | MT20   | 7.0 | 8.0 | Edge 2.75 |      |
| I                           | TMVW-p  | MT20   | 5.0 | 8.0 | Edge      |      |
| K                           | BMV1+p  | MT20   | 3.0 | 6.0 |           |      |
| L                           | BMWW-t  | MT20   | 5.0 | 6.0 | 2.50      | 2.25 |
| M                           | BMWW-t  | MT20   | 7.0 | 8.0 |           |      |
| N                           | BS-t    | MT20   | 5.0 | 6.0 |           |      |
| O                           | BMWWW-t | MT20   | 5.0 | 6.0 |           |      |
| P                           | BMWW-t  | MT20   | 7.0 | 8.0 |           |      |
| Q                           | BMWW-t  | MT20   | 5.0 | 6.0 | 2.50      | 2.25 |
| R                           | BMV1+p  | MT20   | 3.0 | 6.0 |           |      |

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

| BEARINGS | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQD BRG IN-SX |
|----------|-------------------------|------|---------------------------------|------|-----------------|----------------|
|          | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| JT       | 4161                    | 0    | 4161                            | 0    | 5-8             | 5-8            |
| K        | 4963                    | 0    | 4963                            | 0    | 5-8             | 5-8            |
| R        |                         |      |                                 |      |                 |                |

#### UNFACTORED REACTIONS

| 1ST LCASE | MAX./MIN. COMPONENT REACTIONS |          |         |           |         |       |
|-----------|-------------------------------|----------|---------|-----------|---------|-------|
|           | COMBINED                      | SNOW     | LIVE    | PERM.LIVE | WIND    | DEAD  |
| JT        | 3223                          | 2152 / 0 | 541 / 0 | 0 / 0     | 530 / 0 | 0 / 0 |
| K         | 3858                          | 2550 / 0 | 664 / 0 | 0 / 0     | 644 / 0 | 0 / 0 |
| R         |                               |          |         |           |         |       |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) K, R

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.94 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS        |           |            |        |          | WEBS          |       |           |          |  |
|---------------|-----------|------------|--------|----------|---------------|-------|-----------|----------|--|
| MAX. FACTORED |           | FACTORED   |        |          | MAX. FACTORED |       |           |          |  |
| MEMB.         | FORCE     | VERT. LOAD | LC1    | MAX      | MAX.          | MEMB. | FORCE     | MAX      |  |
|               | (LBS)     | (PLF)      |        | CSI (LC) | UNBRAC        |       | (LBS)     | CSI (LC) |  |
| FR-TO         |           | FROM       | TO     |          | LENGTH        | FR-TO |           |          |  |
| A-B           | 0 / 54    | -122.2     | -122.2 | 0.09 (1) | 10.00         | Q-C   | -94 / 216 | 0.03 (3) |  |
| B-C           | -5039 / 0 | -122.2     | -122.2 | 0.27 (1) | 4.09          | C-P   | 0 / 4174  | 0.52 (1) |  |
| C-S           | -7321 / 0 | -122.2     | -122.2 | 0.83 (1) | 3.01          | P-D   | -1345 / 0 | 0.21 (1) |  |
| S-T           | -7321 / 0 | -122.2     | -122.2 | 0.83 (1) | 3.01          | D-O   | 0 / 471   | 0.08 (1) |  |
| T-D           | -7321 / 0 | -122.2     | -122.2 | 0.83 (1) | 3.01          | O-F   | -7 / 59   | 0.01 (1) |  |
| D-E           | -7572 / 0 | -122.2     | -122.2 | 0.59 (1) | 2.94          | G-H   | -45 / 48  | 0.01 (1) |  |
| E-F           | -7572 / 0 | -122.2     | -122.2 | 0.59 (1) | 2.94          | M-G   | -785 / 0  | 0.12 (1) |  |
| F-U           | -7572 / 0 | -122.2     | -122.2 | 0.53 (1) | 3.04          | M-H   | 0 / 5278  | 0.65 (1) |  |
| U-G           | -7572 / 0 | -122.2     | -122.2 | 0.53 (1) | 3.04          | L-H   | -803 / 0  | 0.13 (1) |  |
| G-H           | -7596 / 0 | -122.2     | -122.2 | 0.79 (1) | 3.03          | L-I   | 0 / 3401  | 0.42 (1) |  |
| H-I           | -4223 / 0 | -122.2     | -122.2 | 0.24 (1) | 4.44          | B-Q   | 0 / 4058  | 0.50 (1) |  |
| I-J           | 0 / 54    | -122.2     | -122.2 | 0.09 (1) | 10.00         |       |           |          |  |
| K-I           | -4158 / 0 | 0.0        | 0.0    | 0.15 (1) | 7.00          |       |           |          |  |
| R-B           | -4866 / 0 | 0.0        | 0.0    | 0.18 (1) | 6.56          |       |           |          |  |

| MEMB. | LOC.     | LC1   | MAX.  | MAX+     | FACE  | DIR.  |
|-------|----------|-------|-------|----------|-------|-------|
| V-Q   | 0 / 0    | -28.0 | -28.0 | 0.19 (1) | 10.00 | FRONT |
| Q-W   | 0 / 3857 | -28.0 | -28.0 | 0.44 (1) | 10.00 | BACK  |
| W-X   | 0 / 3857 | -28.0 | -28.0 | 0.44 (1) | 10.00 | BACK  |
| X-P   | 0 / 3857 | -28.0 | -28.0 | 0.44 (1) | 10.00 | BACK  |
| P-Y   | 0 / 7321 | -28.0 | -28.0 | 0.57 (1) | 10.00 | BACK  |
| Y-O   | 0 / 7321 | -28.0 | -28.0 | 0.57 (1) | 10.00 | BACK  |
| O-N   | 0 / 7596 | -28.0 | -28.0 | 0.63 (1) | 10.00 | BACK  |
| N-M   | 0 / 7596 | -28.0 | -28.0 | 0.63 (1) | 10.00 | BACK  |
| M-L   | 0 / 3215 | -28.0 | -28.0 | 0.28 (1) | 10.00 | BACK  |
| L-K   | 0 / 0    | -28.0 | -28.0 | 0.07 (2) | 10.00 | BACK  |

| JT | LOC.    | LC1   | MAX.  | MAX+ | FACE  | DIR. |
|----|---------|-------|-------|------|-------|------|
| C  | 3-7-14  | -358  | -358  | -    | FRONT | VERT |
| C  | 3-7-14  | -46   | -46   | -    | BACK  | VERT |
| D  | 9-11-4  | -43   | -43   | -    | BACK  | VERT |
| E  | 11-11-4 | -43   | -43   | -    | BACK  | VERT |
| M  | 15-5-8  | -1987 | -1987 | -    | BACK  | VERT |
| N  | 13-11-4 | -335  | -335  | -    | BACK  | VERT |
| P  | 9-11-4  | -335  | -335  | -    | BACK  | VERT |
| Q  | 3-11-4  | -335  | -335  | -    | BACK  | VERT |
| S  | 5-11-4  | -43   | -43   | -    | BACK  | VERT |
| T  | 7-11-4  | -43   | -43   | -    | BACK  | VERT |
| U  | 13-11-4 | -43   | -43   | -    | BACK  | VERT |

FACTORED CONCENTRATED LOADS (LBS)

#### DESIGN CRITERIA

\*\*\* SPECIAL LOADS ANALYSIS \*\*\*

GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.

LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE

#### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 38.3 | PSF |
|            | DL | = | 3.0  | PSF |
| BOT CH.    | LL | = | 10.5 | PSF |
|            | DL | = | 7.0  | PSF |
| TOTAL LOAD |    | = | 58.7 | PSF |

SPACING = 24.0 IN. G.C.

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

\*\*\* NON STANDARD GIRDER \*\*\*

ADDTL. USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, CBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $\frac{1}{360}$  (0.85")  
CALCULATED VERT. DEFL.(LL) =  $\frac{1}{999}$  (0.17")  
ALLOWABLE DEFL.(TL) =  $\frac{1}{360}$  (0.85")  
CALCULATED VERT. DEFL.(TL) =  $\frac{1}{999}$  (0.27")

CSI: TC=0.83 (C-D-1), BC=0.63 (M-O-1),  
WB=0.65 (H-M-1), SSI=0.22 (C-D-1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00  
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
|       | (PSI)     | (PLI) | (PLI)   |
| MT20  | 618       | 354   | 1667    |
|       | 822       | 2284  | 1658    |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg

JSI GRIP= 0.88 (C) (INPUT = 0.90)  
JSI METAL= 0.71 (N) (INPUT = 1.00)

DWG NO. TAM 46044-17

STRUCTURAL COMPONENT ONLY

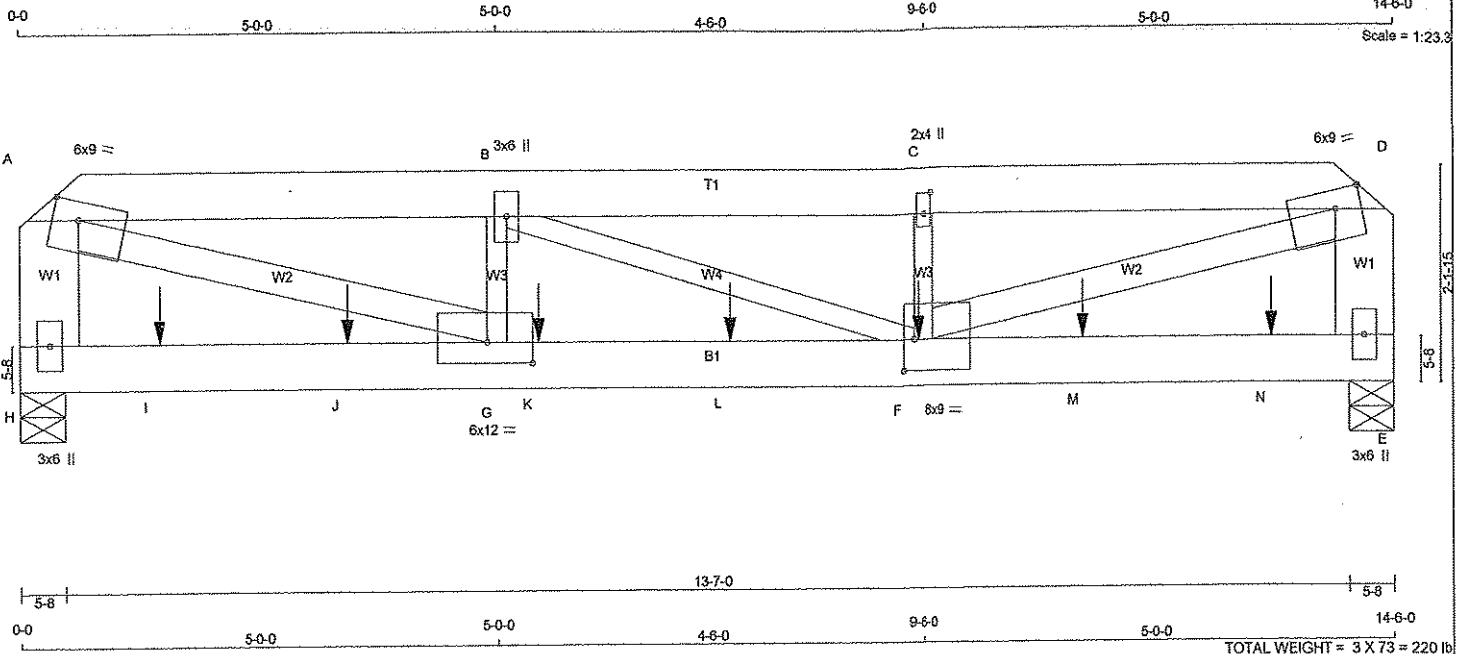
CONTINUED ON PAGE 2

|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 42087 | DRWG NO. |
| 272498   | T32        | 1        | 3   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 MTEK Industries, Inc. Mon Sep 11 16:17:38 2017 Page 1

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| LUMBER            |        |      |            |        |
|-------------------|--------|------|------------|--------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER     | DESCR. |
| A - D             | 2x6    | DRY  | No.2       | SPF    |
| H - A             | 2x8    | DRY  | No.2       | SPF    |
| E - D             | 2x8    | DRY  | No.2       | SPF    |
| H - E             | 2x6    | DRY  | 2100F 1.8E | SPF    |
| ALL WEBS          | 2x3    | DRY  | No.2       | SPF    |
| EXCEPT            |        |      |            |        |
| F - D             | 2x4    | DRY  | No.2       | SPF    |
| A - G             | 2x4    | DRY  | No.2       | SPF    |

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 3 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF)   |
|------------------------------------------|----------------------|-------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |             |
| A-D 2 12                                 |                      | TOP         |
| H-A 2 12                                 |                      | TOP         |
| E-D 2 12                                 |                      | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| H-E 2 7                                  |                      | SIDE(962.6) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| 2x3 1 6                                  |                      |             |
| 2x4 1 6                                  |                      |             |

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3/8 INCH NAILS.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERRING REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN  | Y    | X    |
|----|--------|--------|-----|------|------|------|
| A  | TMVW+w | MT20   | 6.0 | 9.0  | 3.25 | 2.25 |
| B  | TMVW+1 | MT20   | 3.0 | 6.0  |      |      |
| C  | TMVW+w | MT20   | 2.0 | 4.0  | 2.50 | 1.00 |
| D  | TMVW+w | MT20   | 6.0 | 9.0  | 3.25 | 2.25 |
| E  | BMV1+p | MT20   | 3.0 | 6.0  |      |      |
| F  | BMVW+1 | MT20   | 8.0 | 9.0  | 3.75 | 1.50 |
| G  | BMVW+1 | MT20   | 6.0 | 12.0 | 2.50 | 5.75 |
| H  | BMV1+p | MT20   | 3.0 | 6.0  |      |      |

#### HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 2058.5 lbs FACTORED DOWN AT 1-5-4, 2058.5 lbs FACTORED DOWN AT 3-5-4, 2058.5 lbs FACTORED DOWN AT 5-5-4, 2058.5 lbs FACTORED DOWN AT 7-5-4, 2058.5 lbs FACTORED DOWN AT 9-5-4, AND 2058.5 lbs FACTORED DOWN AT 11-2-12, AND 2058.5 lbs FACTORED DOWN AT 13-2-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

| BEARINGS |                | FACTORED |      | MAXIMUM FACTORED |      | INPUT |        | REQD |       |
|----------|----------------|----------|------|------------------|------|-------|--------|------|-------|
| JT       | GROSS REACTION | VERT     | HORZ | GROSS REACTION   | DOWN | HORZ  | UPLIFT | BRG  | IN-SX |
| H        | 8178           | 0        | 0    | 8178             | 0    | 0     | 5-8    | 5-8  | 5-8   |
| E        | 8396           | 0        | 0    | 8396             | 0    | 0     | 5-8    | 5-8  | 5-8   |

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX/MIN  | COMPONENT REACTIONS | WIND  | DEAD     | SOIL  |
|----|-----------|----------|---------------------|-------|----------|-------|
| H  | 6288      | 4280 / 0 | 1003 / 0            | 0 / 0 | 1004 / 0 | 0 / 0 |
| E  | 6455      | 4395 / 0 | 1029 / 0            | 0 / 0 | 1031 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) H, E

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.36 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           | WEBS  |                           |
|--------|---------------------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           | FR-TO |                           |
| A-B    | -17221 / 0                | F-D   | 0 / 18533                 |
| B-C    | -17563 / 0                | A-G   | 0 / 18192                 |
| C-D    | -17608 / 0                | F-C   | -410 / 38                 |
| H-A    | -6267 / 0                 | G-B   | -662 / 0                  |
| E-D    | -6219 / 0                 | B-F   | 0 / 368                   |
| H-I    | 0 / 0                     |       |                           |
| I-J    | 0 / 0                     |       |                           |
| J-G    | 0 / 0                     |       |                           |
| G-K    | 0 / 17221                 |       |                           |
| K-L    | 0 / 17221                 |       |                           |
| L-F    | 0 / 17221                 |       |                           |
| F-M    | 0 / 0                     |       |                           |
| M-N    | 0 / 0                     |       |                           |
| N-E    | 0 / 0                     |       |                           |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1   | MAX-  | MAX+ | FACE | DIR. | TYPE  |
|----|---------|-------|-------|------|------|------|-------|
| F  | 9-5-4   | -2056 | -2056 |      | BACK | VERT | TOTAL |
| I  | 1-5-4   | -2056 | -2056 |      | BACK | VERT | TOTAL |
| J  | 3-5-4   | -2056 | -2056 |      | BACK | VERT | TOTAL |
| K  | 5-5-4   | -2056 | -2056 |      | BACK | VERT | TOTAL |
| L  | 7-5-4   | -2056 | -2056 |      | BACK | VERT | TOTAL |
| M  | 11-2-12 | -2056 | -2056 |      | BACK | VERT | TOTAL |
| N  | 13-2-12 | -2056 | -2056 |      | BACK | VERT | TOTAL |



#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |               |
|------------|---------------|
| TOP CH.    | LL = 38.3 PSF |
|            | DL = 3.0 PSF  |
| BOT CH.    | LL = 10.5 PSF |
|            | DL = 7.0 PSF  |
| TOTAL LOAD | = 58.7 PSF    |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, CBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.48")  
CALCULATED VERT. DEFL.(LL) = L/815 (0.21")  
ALLOWABLE DEFL.(TL) = L/360 (0.48")  
CALCULATED VERT. DEFL.(TL) = L/541 (0.32")

CSI: TC=0.38 (B-C:1), BC=0.45 (F-G:1), WB=0.99 (D-F:1), SSI=0.58 (F-G:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

#### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION            |
|-------|-----------|-------|--------------------|
|       | (PSI)     | (PLI) | (PLI)              |
|       | MAX       | MIN   | MAX MIN            |
| MT20  | 618       | 354   | 1667 822 2284 1658 |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.89 (F) (INPUT = 0.90)  
JSI METAL= 0.96 (F) (INPUT = 1.00)

DWG NO. TAM 46052-17  
STRUCTURAL  
COMPONENT ONLY

|                           |                          |                      |                 |                                |          |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------|----------|
| JOB NAME<br><b>272498</b> | TRUSS NAME<br><b>T31</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC. 42087<br>TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 Mitek Industries, Inc. Mon Sep 11 16:17:38 2017 Page 2

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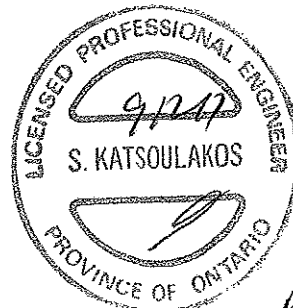
Edge - INDICATES REFERENCE CORNER OF PLATE  
TOUCHES EDGE OF CHORD.

#### HANGERS NOTES

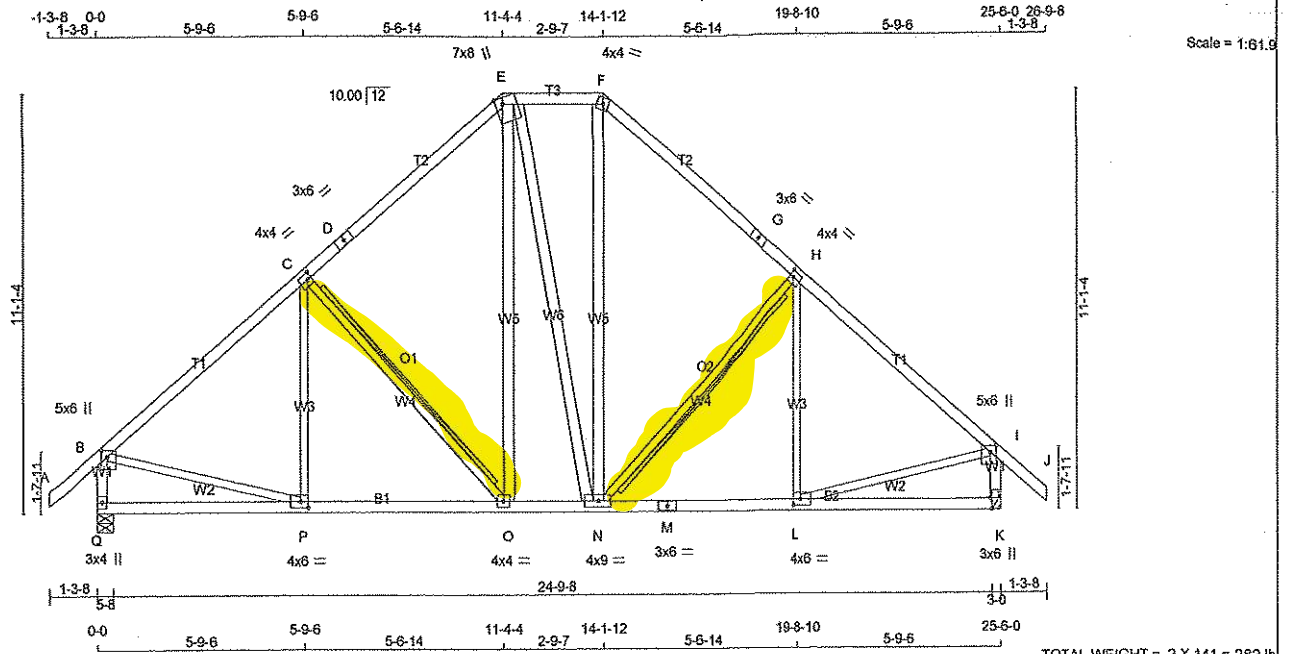
- 1) SPECIAL HANGER(S) OR CONNECTION(S)  
REQUIRED TO SUPPORT CONCENTRATED  
LOAD(S) 358.0 lbs FACTORED DOWN AT 3-7-14,  
45.9 lbs FACTORED DOWN AT 3-7-14, 43.2 lbs  
FACTORED DOWN AT 5-11-4, 43.2 lbs  
FACTORED DOWN AT 7-11-4, 43.2 lbs  
FACTORED DOWN AT 9-11-4, AND 43.2 lbs  
FACTORED DOWN AT 11-11-4, AND 43.2 lbs  
FACTORED DOWN AT 13-11-4 ON TOP CHORD,  
AND 335.5 lbs FACTORED DOWN AT 1-11-4,  
335.5 lbs FACTORED DOWN AT 3-11-4, 335.5 lbs  
FACTORED DOWN AT 5-11-4, 335.5 lbs  
FACTORED DOWN AT 7-11-4, 335.5 lbs  
FACTORED DOWN AT 9-11-4, 335.5 lbs  
FACTORED DOWN AT 11-11-4, AND 335.5 lbs  
FACTORED DOWN AT 13-11-4, AND 1986.7 lbs  
FACTORED DOWN AT 15-5-8 ON BOTTOM  
CHORD. DESIGN FOR UNSPECIFIED  
CONNECTION(S) IS DELEGATED TO THE  
BUILDING DESIGNER.

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  |
|----|---------|------|------|------|------|------|-------|
| V  | 1-11-4  | -335 | -335 | —    | BACK | VERT | TOTAL |
| W  | 5-11-4  | -335 | -335 | —    | BACK | VERT | TOTAL |
| X  | 7-11-4  | -335 | -335 | —    | BACK | VERT | TOTAL |
| Y  | 11-11-4 | -335 | -335 | —    | BACK | VERT | TOTAL |



DWG NO. TAM 46046-17  
STRUCTURAL  
COMPONENT ONLY



| LUMBER             |      |     |        |       |
|--------------------|------|-----|--------|-------|
| N. L. G. A. RULES  |      |     |        |       |
| CHORDS             | SIZE |     | LUMBER | DESCR |
| A - D              | 2x4  | DRY | No.2   | SPF   |
| D - E              | 2x4  | DRY | No.2   | SPF   |
| E - F              | 2x4  | DRY | No.2   | SPF   |
| F - G              | 2x4  | DRY | No.2   | SPF   |
| G - J              | 2x4  | DRY | No.2   | SPF   |
| Q - B              | 2x4  | DRY | No.2   | SPF   |
| K - I              | 2x4  | DRY | No.2   | SPF   |
| Q - M              | 2x4  | DRY | No.2   | SPF   |
| M - K              | 2x4  | DRY | No.2   | SPF   |
| ALL WEBS<br>EXCEPT | 2x3  | DRY | No.2   | SPF   |
| O - E              | 2x4  | DRY | No.2   | SPF   |
| E - N              | 2x4  | DRY | No.2   | SPF   |
| N - F              | 2x4  | DRY | No.2   | SPF   |

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |          |        |     |     |           |
|-----------------------------|----------|--------|-----|-----|-----------|
| JT                          | TYPE     | PLATES | W   | LEN | Y X       |
| B                           | TMWV+p   | MT20   | 5.0 | 6.0 | 2.00 2.00 |
| C                           | TMWV-t   | MT20   | 4.0 | 4.0 | 2.00 1.25 |
| D                           | TS-t     | MT20   | 3.0 | 6.0 |           |
| E                           | TTWV+m   | MT20   | 7.0 | 8.0 | Edge 2.25 |
| F                           | TTW-m    | MT20   | 4.0 | 4.0 |           |
| G                           | TS-t     | MT20   | 3.0 | 6.0 |           |
| H                           | TMWV-t   | MT20   | 4.0 | 4.0 | 2.00 1.25 |
| I                           | TMWV+p   | MT20   | 5.0 | 6.0 | 2.00 2.00 |
| K                           | BMV1+t   | MT20   | 3.0 | 6.0 | Edge 0.50 |
| L                           | BMWV-t   | MT20   | 4.0 | 6.0 | 2.00 2.50 |
| M                           | BS-t     | MT20   | 3.0 | 6.0 |           |
| N                           | BMWVWV-t | MT20   | 4.0 | 9.0 |           |
| O                           | BMWV-t   | MT20   | 4.0 | 4.0 |           |
| P                           | BMWV-t   | MT20   | 4.0 | 6.0 | 2.00 2.50 |
| Q                           | BMV1+p   | MT20   | 3.0 | 4.0 |           |

Edge - INDICATES REFERENCE CORNER OF PLATE  
TOUCHES EDGE OF CHORD.

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

## BEARINGS

|    | FACTORED       |      | MAXIMUM FACTORED |      | INPUT               | REQ'D |
|----|----------------|------|------------------|------|---------------------|-------|
|    | GROSS REACTION |      | GROSS REACTION   |      | BRG                 | BRG   |
| JT | VERT           | HORZ | DOWN             | HORZ | IN-SX               | IN-SX |
| Q  | 2084           | 0    | 2084             | 0    | 5-8                 | 5-8   |
| K  | 2084           | 0    | 2084             | 0    | HANGER BY OTHERS    |       |
|    |                |      |                  |      | MIN. SEAT SIZE: 3-0 |       |

### UNFACTORED REACTIONS

| JT | MAX./MIN. COMPONENT REACTIONS |        |       |            |      |       |      |
|----|-------------------------------|--------|-------|------------|------|-------|------|
|    | 1ST LCASE<br>COMBINED         | SNOW   | LIVE  | PERM. LIVE | WIND | DEAD  | SOIL |
| Q  | 1612                          | 1081/0 | 268/0 | 0/0        | 0/0  | 263/0 | 0/0  |
| K  | 1612                          | 1081/0 | 268/0 | 0/0        | 0/0  | 263/0 | 0/0  |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) Q

## BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.19 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY  
APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

2x3 DRY SPF No.2 T-BRACE AT C-O, H-N

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

## LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               | WEBS               |       |                           |               |
|--------|---------------------------|---------------------------|---------------|--------------------|-------|---------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
| FR-TO  |                           | FROM TO                   |               |                    | FR-TO |                           |               |
| A-B    | 0 / 54                    | -122.2 -122.2             | 0.17 (1)      | 10.00              | P-C   | -150 / 205                | 0.10 (1)      |
| B-C    | -1889 / 0                 | -122.2 -122.2             | 0.61 (1)      | 4.19               | C-O   | -552 / 0                  | 0.65 (1)      |
| C-D    | -1509 / 0                 | -122.2 -122.2             | 0.56 (1)      | 4.64               | O-E   | 0 / 504                   | 0.08 (1)      |
| D-E    | -1509 / 0                 | -122.2 -122.2             | 0.56 (1)      | 4.64               | E-N   | 0 / 6                     | 0.00 (1)      |
| E-F    | -1123 / 0                 | -122.2 -122.2             | 0.13 (1)      | 5.85               | N-F   | 0 / 510                   | 0.08 (1)      |
| F-G    | -1511 / 0                 | -122.2 -122.2             | 0.58 (1)      | 4.64               | N-H   | -550 / 0                  | 0.64 (1)      |
| G-H    | -1511 / 0                 | -122.2 -122.2             | 0.56 (1)      | 4.64               | L-H   | -154 / 202                | 0.10 (1)      |
| H-I    | -1888 / 0                 | -122.2 -122.2             | 0.61 (1)      | 4.19               | B-P   | 0 / 1530                  | 0.34 (1)      |
| I-J    | 0 / 54                    | -122.2 -122.2             | 0.17 (1)      | 10.00              | L-I   | 0 / 1529                  | 0.34 (1)      |
| Q-B    | -2019 / 0                 | 0.0                       | 0.0           | 5.84               |       |                           |               |
| K-I    | -2019 / 0                 | 0.0                       | 0.0           | 5.94               |       |                           |               |
| Q-P    | 0 / 0                     | -28.0                     | -28.0         | 0.24 (3)           | 10.00 |                           |               |
| P-O    | 0 / 1492                  | -28.0                     | -28.0         | 0.39 (2)           | 10.00 |                           |               |
| O-N    | 0 / 1122                  | -28.0                     | -28.0         | 0.25 (1)           | 10.00 |                           |               |
| N-M    | 0 / 1492                  | -28.0                     | -28.0         | 0.38 (2)           | 10.00 |                           |               |
| M-L    | 0 / 1492                  | -28.0                     | -28.0         | 0.38 (2)           | 10.00 |                           |               |
| L-K    | 0 / 0                     | -28.0                     | -28.0         | 0.24 (3)           | 10.00 |                           |               |



Professional Engineer Seal  
9/12/17

## DESIGN CRITERIA

SPECIFIED LOADS:

|            |      |      |     |
|------------|------|------|-----|
| TOP CH.    | LL = | 38.3 | PSF |
|            | DL = | 3.0  | PSF |
| BOT CH.    | LL = | 10.5 | PSF |
|            | DL = | 7.0  | PSF |
| TOTAL LOAD | =    | 58.7 | PSF |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A  
SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL  
OR SMALL BUILDING REQUIREMENTS OF  
PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55 % OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)=  $L/360$  (0.85")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.07")  
ALLOWABLE DEFL.(TL)=  $L/360$  (0.85")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.12")

CSI: TC=0.61 (B-C:1), BC=0.39 (O-P:2), WB=0.65 (C-O:1), SSI=0.26 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

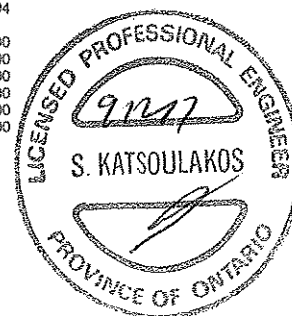
## NAIL VALUES

| PLATE | GRIP(DRY) |     | SHEAR |     | SECTION |      |
|-------|-----------|-----|-------|-----|---------|------|
|       | (PSI)     |     | (PLI) |     | (PLI)   |      |
|       | MAX       | MIN | MAX   | MIN | MAX     | MIN  |
| MT20  | 618       | 354 | 1667  | 822 | 2284    | 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90 )  
JSI METAL= 0.46 (M) (INPUT = 1.00 )



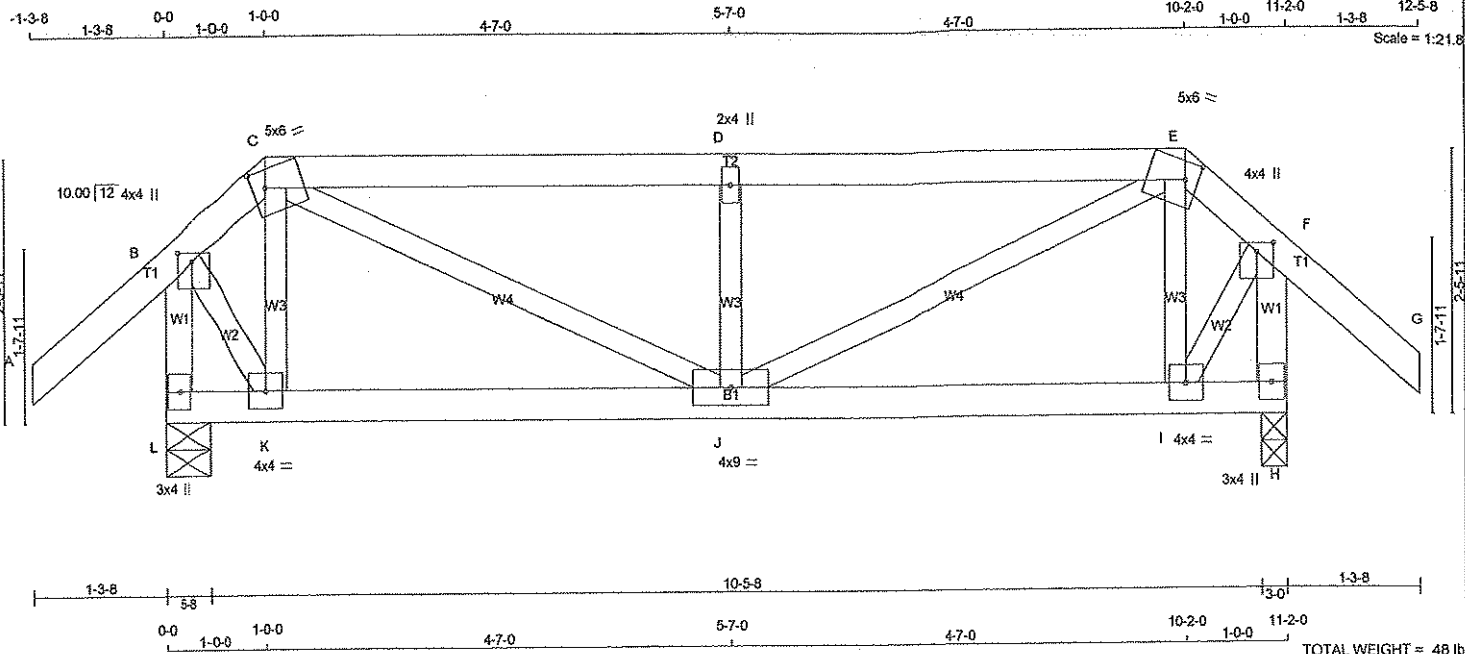
DWG NO. TAM4604317  
STRUCTURAL  
COMPONENT ONLY

|                           |                           |                      |                 |                           |          |
|---------------------------|---------------------------|----------------------|-----------------|---------------------------|----------|
| JOB NAME<br><b>272498</b> | TRUSS NAME<br><b>T210</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>42087</b> | DRWG NO. |
|---------------------------|---------------------------|----------------------|-----------------|---------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 MiTek Industries, Inc. Mon Sep 11 16:17:39 2017 Page 1

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| LUMBER            |      |        |        |
|-------------------|------|--------|--------|
| N. L. G. A. RULES |      |        |        |
| CHORDS            | SIZE | LUMBER | DESCR. |
| A - C             | 2x4  | DRY    | No.2   |
| C - E             | 2x4  | DRY    | No.2   |
| E - G             | 2x4  | DRY    | No.2   |
| L - B             | 2x4  | DRY    | No.2   |
| H - F             | 2x4  | DRY    | No.2   |
| L - H             | 2x4  | DRY    | No.2   |

| ALL WEBS | 2x3 | DRY | No.2 | SPF |
|----------|-----|-----|------|-----|
|----------|-----|-----|------|-----|

EXCEPT  
DRY: SEASONED LUMBER

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW+p | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| C  | TTWW-m | MT20   | 5.0 | 6.0 | 2.00 | 1.50 |
| D  | TMW+w  | MT20   | 2.0 | 4.0 |      |      |
| E  | TTWW-m | MT20   | 5.0 | 6.0 | 2.00 | 1.50 |
| F  | TMVW+p | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| H  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| I  | BMWW-t | MT20   | 4.0 | 4.0 |      |      |
| J  | BMWW-t | MT20   | 4.0 | 9.0 |      |      |
| K  | BMWW-t | MT20   | 4.0 | 4.0 |      |      |
| L  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

| BEARINGS |      | FACTORED       |      | MAXIMUM FACTORED |      | INPUT  |       | REQD  |  |
|----------|------|----------------|------|------------------|------|--------|-------|-------|--|
|          |      | GROSS REACTION |      | GROSS REACTION   |      | BRG    |       | BRG   |  |
| JT       |      | VERT           | HORZ | DOWN             | HORZ | UPLIFT | IN-SX | IN-SX |  |
| L        | 1008 | 0              | 1008 | 0                | 0    | 5-8    | 5-8   |       |  |
| H        | 1008 | 0              | 1008 | 0                | 0    | 3-0    | 3-0   |       |  |

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX./MIN. COMPONENT REACTIONS |         |           |       |         |       |  |
|----|----------|-------------------------------|---------|-----------|-------|---------|-------|--|
|    | COMBINED | SNOW                          | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |  |
| L  | 770      | 533 / 0                       | 117 / 0 | 0 / 0     | 0 / 0 | 120 / 0 | 0 / 0 |  |
| H  | 770      | 533 / 0                       | 117 / 0 | 0 / 0     | 0 / 0 | 120 / 0 | 0 / 0 |  |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) L, H

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.30 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                        | WEBS     |                           |                        |          |
|--------|---------------------------|---------------------------|------------------------|----------|---------------------------|------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |          |
| FR-TO  |                           | FROM TO                   | LENGTH                 | FR-TO    |                           |                        |          |
| A-B    | 0 / 54                    | -122.2 -122.2             | 0.17 (1)               | 10.00    | K-C                       | -267 / 0               | 0.04 (1) |
| B-C    | -524 / 0                  | -122.2 -122.2             | 0.16 (1)               | 6.25     | C-J                       | 0 / 920                | 0.21 (1) |
| C-D    | -1160 / 0                 | -122.2 -122.2             | 0.43 (1)               | 5.30     | J-D                       | -677 / 0               | 0.11 (1) |
| D-E    | -1160 / 0                 | -122.2 -122.2             | 0.43 (1)               | 5.30     | J-E                       | 0 / 920                | 0.21 (1) |
| E-F    | -524 / 0                  | -122.2 -122.2             | 0.16 (1)               | 6.25     | I-E                       | -267 / 0               | 0.04 (1) |
| F-G    | 0 / 54                    | -122.2 -122.2             | 0.17 (1)               | 10.00    | B-K                       | 0 / 527                | 0.12 (1) |
| L-B    | -1041 / 0                 | 0.0                       | 0.0                    | 11 (1)   | I-F                       | 0 / 527                | 0.12 (1) |
| H-F    | -1041 / 0                 | 0.0                       | 0.0                    | 11 (1)   | 7.70                      |                        |          |
| L-K    | 0 / 0                     | -28.0                     | -28.0                  | 0.10 (2) | 10.00                     |                        |          |
| K-J    | 0 / 328                   | -28.0                     | -28.0                  | 0.14 (2) | 10.00                     |                        |          |
| J-I    | 0 / 328                   | -28.0                     | -28.0                  | 0.14 (2) | 10.00                     |                        |          |
| I-H    | 0 / 0                     | -28.0                     | -28.0                  | 0.10 (2) | 10.00                     |                        |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 38.3 | PSF |
|            | DL | = | 3.0  | PSF |
| BOT CH.    | LL | = | 10.5 | PSF |
|            | DL | = | 7.0  | PSF |
| TOTAL LOAD |    | = | 58.7 | PSF |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 088-09  
- TPIC 2011

DESIGN ASSUMPTIONS  
- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.37")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.03")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.37")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.05")

CSI: TC=0.43 (C-D:1), BC=0.14 (J-K:2), WB=0.21 (E-J:1), SSI=0.27 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

#### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) | (PLI)   |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 618       | 354   | 1667    |
|       | 822       | 2284  | 1656    |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.88 (E) (INPUT = 0.90)

JSI METAL= 0.24 (C) (INPUT = 1.00)



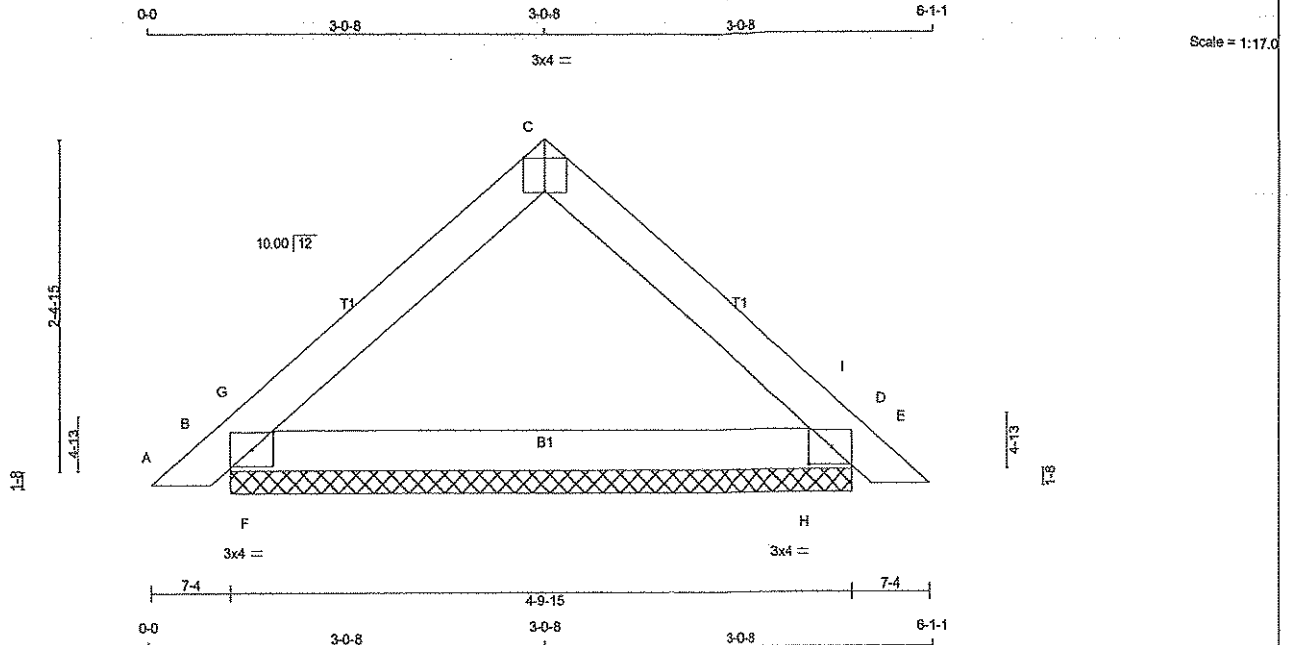
DWG NO. TAM/6049-17  
STRUCTURAL  
COMPONENT ONLY



|                           |                          |                      |                 |                                |          |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------|----------|
| JOB NAME<br><b>272497</b> | TRUSS NAME<br><b>PB2</b> | QUANTITY<br><b>3</b> | PLY<br><b>1</b> | JOB DESC. 42057<br>TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 MTek Industries, Inc. Mon Sep 11 16:08:41 2017 Page 1  
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TOTAL WEIGHT = 3 X 14 = 43 lb

| LUMBER            |      |        |      | DESCR. |  |
|-------------------|------|--------|------|--------|--|
| N. L. G. A. RULES |      |        |      |        |  |
| CHORDS            | SIZE | LUMBER |      | SPF    |  |
| A - C             | 2x4  | DRY    | No.2 | SPF    |  |
| C - E             | 2x4  | DRY    | No.2 | SPF    |  |
| B - D             | 2x4  | DRY    | No.2 | SPF    |  |

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |        |        |     |     |      |      |
|-----------------------------|--------|--------|-----|-----|------|------|
| JT                          | TYPE   | PLATES | W   | LEN | Y    | X    |
| B                           | TMB1-I | MT20   | 3.0 | 4.0 | 1.50 | 2.00 |
| C                           | TT-p   | MT20   | 3.0 | 4.0 | Edge | 2.00 |
| D                           | TMB1-I | MT20   | 3.0 | 4.0 | 1.50 | 2.00 |

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

| BEARINGS |      | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |        | INPUT BRG |        | REQRD BRG |        |
|----------|------|-------------------------|------|---------------------------------|--------|-----------|--------|-----------|--------|
| JT       | VERT | HORZ                    | DOWN | HORZ                            | UPLIFT | IN-SX     | IN-SX  | IN-SX     | IN-SX  |
| B        | 425  | 0                       | 425  | 0                               | 0      | 4-9-15    | 4-9-15 | 4-9-15    | 4-9-15 |
| D        | 425  | 0                       | 425  | 0                               | 0      | 4-9-15    | 4-9-15 | 4-9-15    | 4-9-15 |

#### UNFACTORED REACTIONS

|    | 1ST LCASE | MAX/MIN COMPONENT REACTIONS |        |           |       |        |       |
|----|-----------|-----------------------------|--------|-----------|-------|--------|-------|
| JT | COMBINED  | SNOW                        | LIVE   | PERM.LIVE | WIND  | DEAD   | SOIL  |
| B  | 326       | 224 / 0                     | 51 / 0 | 0 / 0     | 0 / 0 | 51 / 0 | 0 / 0 |
| D  | 326       | 224 / 0                     | 51 / 0 | 0 / 0     | 0 / 0 | 51 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, D

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               | WEBS  |                           |               |          |
|--------|---------------------------|---------------------------|---------------|-------|---------------------------|---------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |          |
| FR-TO  |                           | FROM TO                   |               | FR-TO |                           |               |          |
| A-B    | 0 / 18                    | -122.2 -122.2             | 0.02 (1)      | 10.00 | F-G                       | 0 / 293       | 0.00 (1) |
| B-G    | -371 / 0                  | -122.2 -122.2             | 0.09 (3)      | 6.25  | H-I                       | 0 / 293       | 0.00 (1) |
| G-C    | -222 / 0                  | -122.2 -122.2             | 0.12 (1)      | 6.25  |                           |               |          |
| C-I    | -222 / 0                  | -122.2 -122.2             | 0.12 (1)      | 6.25  |                           |               |          |
| I-D    | -371 / 0                  | -122.2 -122.2             | 0.09 (3)      | 6.25  |                           |               |          |
| D-E    | 0 / 18                    | -122.2 -122.2             | 0.02 (1)      | 10.00 |                           |               |          |
| B-F    | 0 / 178                   | -28.0 -28.0               | 0.07 (3)      | 10.00 |                           |               |          |
| F-H    | 0 / 178                   | -28.0 -28.0               | 0.12 (2)      | 10.00 |                           |               |          |
| H-D    | 0 / 178                   | -28.0 -28.0               | 0.07 (3)      | 10.00 |                           |               |          |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 38.3 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 58.7 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPC 2011

(55 % OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12 (C-I:1), BC=0.12 (F-H:2), WB=0.00 (F-G:1), SSI=0.15 (B-F:3)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 822 2284 1656

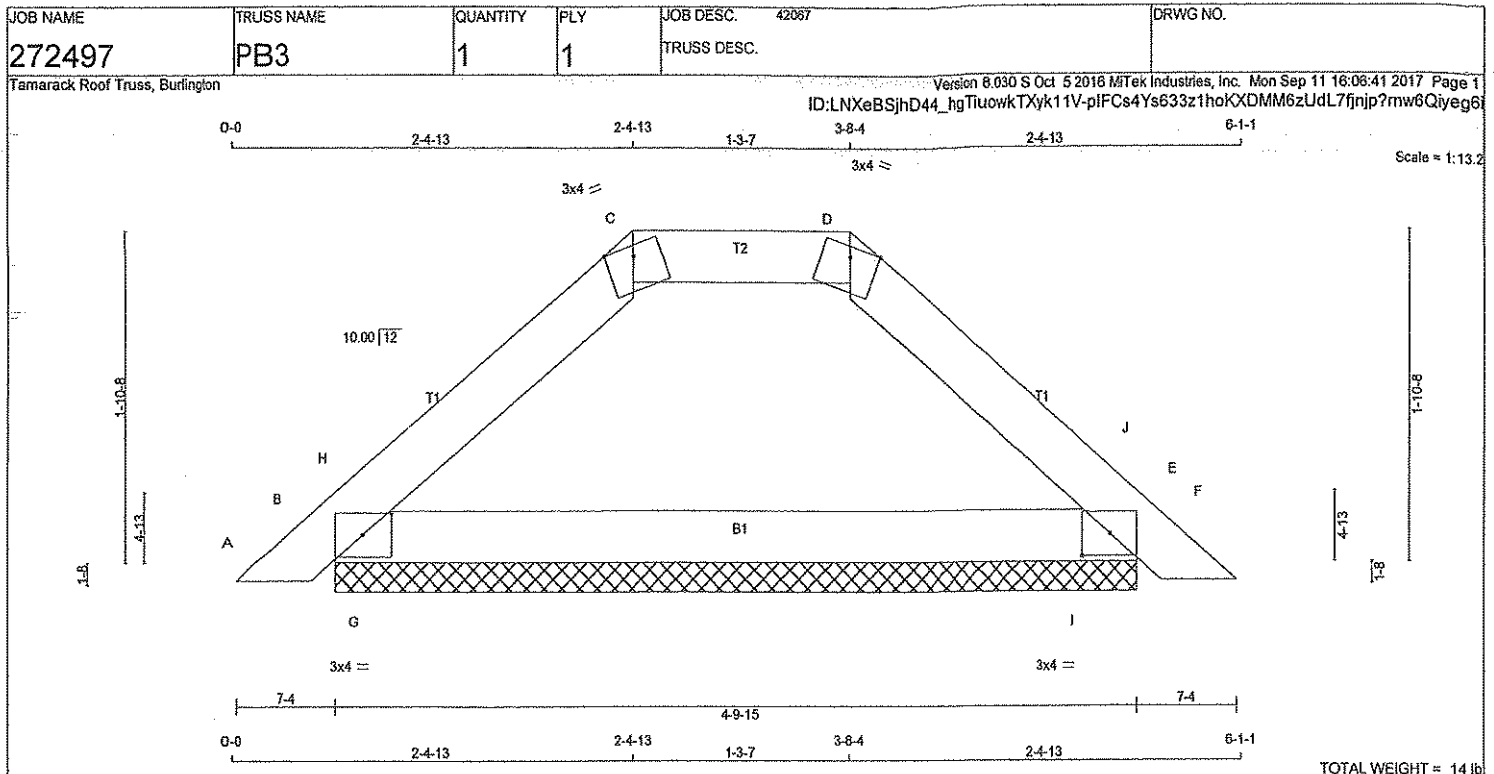
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.28 (B) (INPUT = 0.90)  
JSI METAL= 0.09 (B) (INPUT = 1.00)



DWG NO. TAM 46041-17  
STRUCTURAL  
COMPONENT ONLY



**LUMBER**

N. L. G. A. RULES

| CHORDS | SIZE | LUMBER | DESCR.   |
|--------|------|--------|----------|
| A - C  | 2x4  | DRY    | No.2 SPF |
| C - D  | 2x4  | DRY    | No.2 SPF |
| D - F  | 2x4  | DRY    | No.2 SPF |
| B - E  | 2x4  | DRY    | No.2 SPF |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMB1-I | MT20   | 3.0 | 4.0 | 1.50 | 2.00 |
| C  | TT-m   | MT20   | 3.0 | 4.0 | Edge |      |
| D  | TT-m   | MT20   | 3.0 | 4.0 | Edge |      |
| E  | TMB1-I | MT20   | 3.0 | 4.0 | 1.50 | 2.00 |

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| B  | 425                     | 0    | 425                             | 0    | 4-9-15    | 4-9-15   |
| E  | 425                     | 0    | 425                             | 0    | 4-9-15    | 4-9-15   |

**UNFACTORED REACTIONS**

| JT | COMBINED | MAX./MIN. COMPONENT REACTIONS |      |      |            |      |
|----|----------|-------------------------------|------|------|------------|------|
|    |          | 1ST LCASE                     | SNOW | LIVE | PERM. LIVE | WIND |
| B  | 326      | 224/0                         | 51/0 | 0/0  | 0/0        | 51/0 |
| E  | 326      | 224/0                         | 51/0 | 0/0  | 0/0        | 51/0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, E

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                  |                            | WEBS  |                           |                            |          |  |
|--------|---------------------------|---------------------------|------------------|----------------------------|-------|---------------------------|----------------------------|----------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MAX. UNBRACED LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH FR-TO |          |  |
| A-B    | 0 / 18                    | -122.2                    | -122.2           | 0.02 (1)                   | 10.00 | G-H                       | -129 / 71                  | 0.00 (1) |  |
| B-H    | -65 / 47                  | -122.2                    | -122.2           | 0.08 (2)                   | 6.25  | I-J                       | -129 / 71                  | 0.00 (1) |  |
| H-C    | -262 / 0                  | -122.2                    | -122.2           | 0.03 (1)                   | 6.25  |                           |                            |          |  |
| C-D    | -197 / 0                  | -122.2                    | -122.2           | 0.02 (1)                   | 6.25  |                           |                            |          |  |
| D-J    | -262 / 0                  | -122.2                    | -122.2           | 0.03 (1)                   | 6.25  |                           |                            |          |  |
| J-E    | -65 / 47                  | -122.2                    | -122.2           | 0.08 (2)                   | 6.25  |                           |                            |          |  |
| E-F    | 0 / 18                    | -122.2                    | -122.2           | 0.02 (1)                   | 10.00 |                           |                            |          |  |
|        |                           |                           |                  |                            |       |                           |                            |          |  |
| B-G    | -167 / 0                  | -28.0                     | -28.0            | 0.07 (2)                   | 6.25  |                           |                            |          |  |
| G-I    | 0 / 197                   | -28.0                     | -28.0            | 0.11 (2)                   | 10.00 |                           |                            |          |  |
| I-E    | -167 / 0                  | -28.0                     | -28.0            | 0.07 (2)                   | 6.25  |                           |                            |          |  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

|            |               |
|------------|---------------|
| TOP CH.    | LL = 38.3 PSF |
|            | DL = 3.0 PSF  |
| BOT CH.    | LL = 10.5 PSF |
|            | DL = 7.0 PSF  |
| TOTAL LOAD | = 58.7 PSF    |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

DESIGN ASSUMPTIONS  
- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.08 (B-H-2), BC=0.11 (G-I-2), WB=0.00 (G-H-1), SS=0.16 (B-H-2)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**

| PLATE | GRIP (DRY) | SHEAR | SECTION |
|-------|------------|-------|---------|
| (PSI) | (PLI)      | (PLI) | (PLI)   |
| MAX   | MIN        | MAX   | MIN     |
| MT20  | 618        | 354   | 1667    |
|       | 822        | 2284  | 1856    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.29 (B) (INPUT = 0.90)  
JSI METAL= 0.09 (E) (INPUT = 1.00)



DWG NO. TAM46042-17  
STRUCTURAL  
COMPONENT ONLY

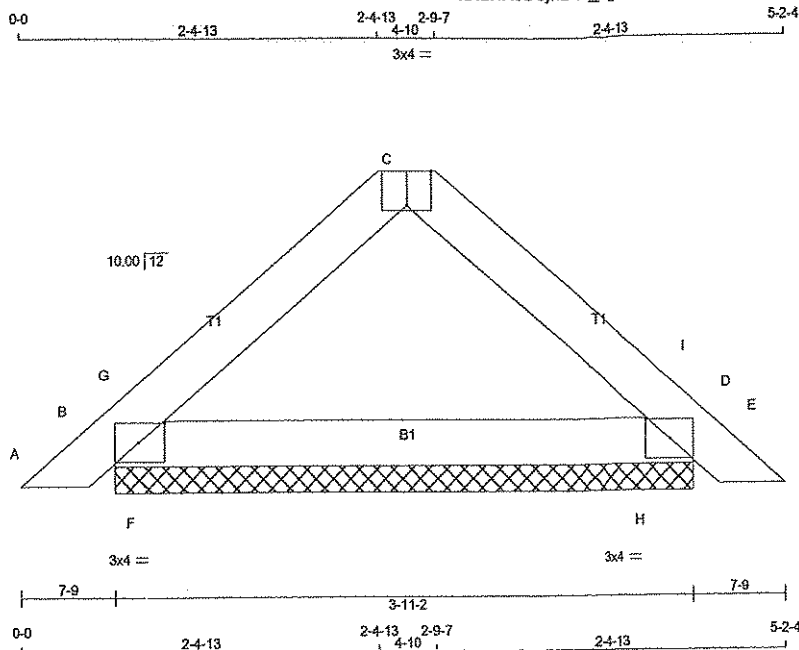
JSI GRIP= 0.24 (D) (INPUT = 0.90 )  
JSI METAL= 0.07 (B) (INPUT = 1.00 )

|          |            |          |     |             |          |
|----------|------------|----------|-----|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 272498   | PB30CP     | 2        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 Mitek Industries, Inc. Mon Sep 11 16:17:37 2017 Page 1

ID:LNxeBSjhD44\_hgTiuowkTXyk11V-cVuCYOULcdiukVyPz77BifkjZYeUPCZirqqSgyefyS



Scale = 1:14.9

TOTAL WEIGHT = 2 X 12 = 24 lb

| LUMBER            | DESCR.  |
|-------------------|---------|
| N. L. G. A. RULES |         |
| CHORDS            | SIZE    |
| A - C             | 2x4 DRY |
| C - E             | 2x4 DRY |
| B - D             | 2x4 DRY |

DRY: SEASONED LUMBER.

| PLATES (table is in inches) | W      | LEN  | Y   | X   |
|-----------------------------|--------|------|-----|-----|
| JT TYPE                     | PLATES |      |     |     |
| B                           | TMB1-1 | MT20 | 3.0 | 4.0 |
| C                           | TT-p   | MT20 | 3.0 | 4.0 |
| D                           | TMB1-1 | MT20 | 3.0 | 4.0 |

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

#### DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT | REQRD |
|----|-------------------------|---------------------------------|-------|-------|
|    | VERT                    | HORZ                            | DOWN  | HORZ  |
| JT | 361                     | 0                               | 361   | 0     |
| B  | 361                     | 0                               | 361   | 0     |
| D  | 361                     | 0                               | 361   | 0     |

##### UNFACTORED REACTIONS

|    | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS |
|----|-----------|-------------------------------|
|    | COMBINED  | SNOW                          |
| JT | 275       | 191 / 0                       |
| B  | 275       | 191 / 0                       |
| D  | 275       | 191 / 0                       |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, D

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED HORIZ. LOAD (PLF) | MAX. FACTORED UNBRACED LENGTH (FT) | WEBS  | MEMB.   | MAX. FACTORED FORCE (LBS) | MAX. FACTORED HORIZ. LOAD (PLF) | MAX. FACTORED UNBRACED LENGTH (FT) |
|--------|----------|---------------------------|---------------------------|---------------------------------|------------------------------------|-------|---------|---------------------------|---------------------------------|------------------------------------|
| FR-TO  |          |                           |                           |                                 |                                    | FR-TO |         |                           |                                 |                                    |
| A-B    | 0 / 19   | -122.2                    | -122.2                    | 0.03 (1)                        | 10.00                              | F-G   | 0 / 198 | 0.00 (1)                  | 6.25                            | 6.25                               |
| B-G    | -293 / 0 | -122.2                    | -122.2                    | 0.06 (2)                        | 6.25                               | H-I   | 0 / 198 | 0.00 (1)                  | 6.25                            | 6.25                               |
| G-C    | -178 / 0 | -122.2                    | -122.2                    | 0.06 (1)                        | 6.25                               |       |         |                           |                                 |                                    |
| C-I    | -178 / 0 | -122.2                    | -122.2                    | 0.06 (1)                        | 6.25                               |       |         |                           |                                 |                                    |
| I-D    | -293 / 0 | -122.2                    | -122.2                    | 0.06 (2)                        | 6.25                               |       |         |                           |                                 |                                    |
| D-E    | 0 / 19   | -122.2                    | -122.2                    | 0.03 (1)                        | 10.00                              |       |         |                           |                                 |                                    |
| B-F    | 0 / 144  | -28.0                     | -28.0                     | 0.04 (3)                        | 10.00                              |       |         |                           |                                 |                                    |
| F-H    | 0 / 144  | -28.0                     | -28.0                     | 0.03 (1)                        | 10.00                              |       |         |                           |                                 |                                    |
| H-D    | 0 / 144  | -28.0                     | -28.0                     | 0.04 (3)                        | 10.00                              |       |         |                           |                                 |                                    |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |            |
|------------|----|------------|
| TOP CH.    | LL | = 38.3 PSF |
|            | DL | = 3.0 PSF  |
| BOT CH.    | LL | = 10.5 PSF |
|            | DL | = 7.0 PSF  |
| TOTAL LOAD |    | = 58.7 PSF |

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55 % OF 54.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.08 (C-G:1), BC=0.08 (F-H:1), WB=0.00 (F-G:1), SSI=0.09 (D-I:2)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) | (PLI)   |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 618       | 354   | 1667    |
|       | 822       | 2284  | 1656    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.24 (D) (INPUT = 0.90)  
JSI METAL= 0.07 (B) (INPUT = 1.00)



DWG NO. TAM 46052-17  
STRUCTURAL  
COMPONENT ONLY

# HGUS – Double Shear Joist Hangers



All HGUS hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections. Do not bend or remove tabs.

**MATERIAL:** 12 gauge

**FINISH:** G90 galvanized

**DESIGN:**

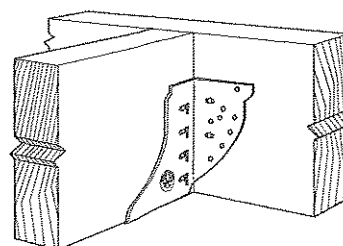
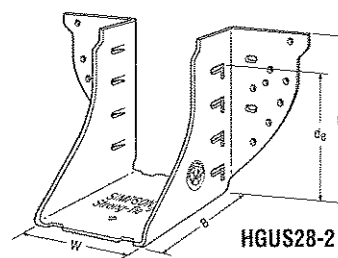
- Factored resistances are in accordance with CSA O86-14
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

**INSTALLATION:**

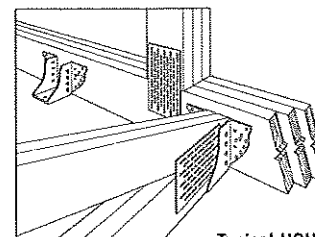
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

**OPTIONS:**

- See current catalogue for options



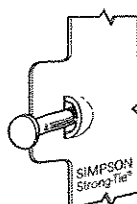
Typical HGUS Installation



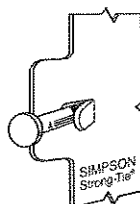
Typical HGUS Installation  
(Truss Designer to provide fastener quantity for connecting multiple members together)

| Model No. | Ga | Dimensions (in) |        |   |                             | Fasteners |        | Factored Resistance (lbs)        |                                  |                                  |                                  |
|-----------|----|-----------------|--------|---|-----------------------------|-----------|--------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |    | W               | H      | B | d <sub>g</sub> <sup>1</sup> | Face      | Joist  | D.Fir-L                          |                                  | S-P-F                            |                                  |
|           |    |                 |        |   |                             |           |        | Uplift<br>(K <sub>p</sub> =1.15) | Normal<br>(K <sub>p</sub> =1.00) | Uplift<br>(K <sub>p</sub> =1.15) | Normal<br>(K <sub>p</sub> =1.00) |
| HGUS26    | 12 | 1 5/8           | 5 3/8  | 5 | 4 5/8                       | 20-16d    | 8-16d  | 2685                             | 6625                             | 2685                             | 5700                             |
| HGUS26-2  | 12 | 3 1/8           | 5 1/8  | 4 | 4 1/8                       | 20-16d    | 8-16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS26-3  | 12 | 4 1/8           | 5 1/2  | 4 | 4 1/8                       | 20-16d    | 8-16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS26-4  | 12 | 6 1/8           | 5 1/8  | 4 | 4 1/8                       | 20-16d    | 8-16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS28    | 12 | 1 1/8           | 7 1/8  | 5 | 6 1/8                       | 36-16d    | 12-16d | 3310                             | 7675                             | 3100                             | 6900                             |
| HGUS28-2  | 12 | 3 1/8           | 7 3/8  | 4 | 6 1/8                       | 36-16d    | 12-16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-3  | 12 | 4 1/8           | 7 1/4  | 4 | 6 1/8                       | 36-16d    | 12-16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-4  | 12 | 6 1/8           | 7 3/8  | 4 | 6 1/8                       | 36-16d    | 12-16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS210-2 | 12 | 3 1/8           | 9 3/8  | 4 | 8 1/8                       | 46-16d    | 16-16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS210-3 | 12 | 4 1/8           | 9 1/4  | 4 | 8 3/8                       | 46-16d    | 16-16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS210-4 | 12 | 6 1/8           | 9 3/8  | 4 | 8 1/8                       | 46-16d    | 16-16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS212-4 | 12 | 6 1/8           | 10 3/8 | 4 | 10 1/8                      | 56-16d    | 20-16d | 7640                             | 14995                            | 5425                             | 10645                            |
| HGUS214-4 | 12 | 6 1/8           | 12 3/8 | 4 | 11 1/8                      | 66-16d    | 22-16d | 10130                            | 16400                            | 7195                             | 11645                            |

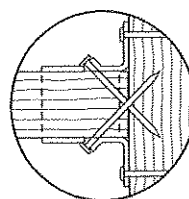
1. d<sub>g</sub> is the distance from the seat of the hanger to the highest joist nail.



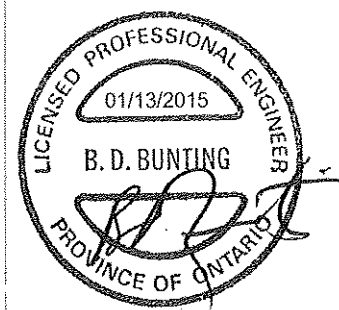
Dome Double Shear Nailing prevents tabs breaking off (available on some models).  
U.S. Patent 5,603,580



Double Shear Nailing Side View. Do not bend tab back.



Double Shear Nailing Top View.



LIMIT STATES DESIGN

This technical bulletin is effective until December 31, 2016, and reflects information available as of January 1, 2015. This information is updated periodically and should not be relied upon after December 31, 2016; contact Simpson Strong-Tie for current information and limited warranty or see [www.strongtie.com](http://www.strongtie.com).

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T-SPECHGUS15 1/15 exp. 12/16

800-999-5099  
[www.strongtie.com](http://www.strongtie.com)

# HUS/LJS – Double Shear Joist Hangers



All hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections. Do not bend or remove tabs.

**MATERIAL:** See table

**FINISH:** G90 galvanized

**DESIGN:**

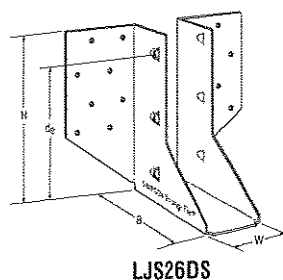
- Factored resistances are in accordance with CSA 086-14
- Uplift resistances have been increased 15%  
No further increase is permitted
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

**INSTALLATION:**

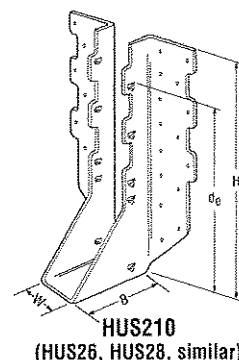
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

**OPTIONS:**

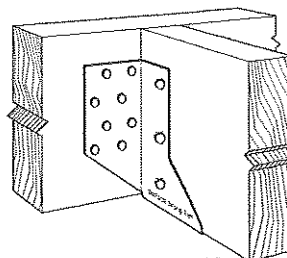
- See current catalogue for options



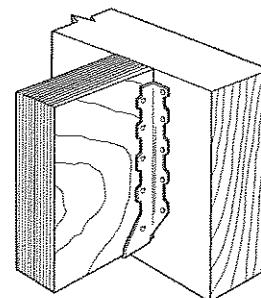
LJS26DS



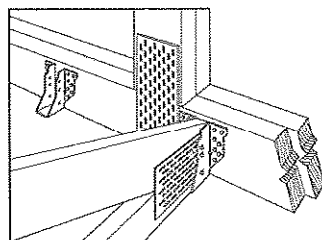
HUS210  
(HUS26, HUS28, similar)



Typical LJS26DS  
Installation



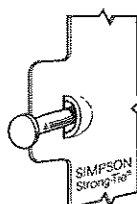
Typical HUS  
Installation



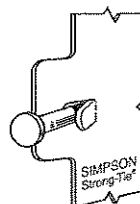
Typical HUS Installation  
(Truss Designer to provide fastener  
quantity for connecting multiple  
members together)

| Model No.  | Ga | Dimensions (in) |        |       |                             | Fasteners |        | Factored Resistance (lbs)        |                                  |                                  |                                  |
|------------|----|-----------------|--------|-------|-----------------------------|-----------|--------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|            |    | W               | H      | B     | d <sub>g</sub> <sup>1</sup> | Face      | Joist  | D.Fir-L                          |                                  | S-P-F                            |                                  |
|            |    |                 |        |       |                             |           |        | Uplift<br>(K <sub>o</sub> =1.15) | Normal<br>(K <sub>o</sub> =1.00) | Uplift<br>(K <sub>o</sub> =1.15) | Normal<br>(K <sub>o</sub> =1.00) |
| LJS26DS    | 18 | 1 1/16          | 5      | 3 1/2 | 4 5/8                       | 16-16d    | 6-16d  | 2055                             | 4265                             | 1460                             | 4115                             |
| HUS26      | 16 | 1 1/8           | 5 3/8  | 3     | 3 1 1/8                     | 14-16d    | 6-16d  | 2705                             | 4940                             | 2065                             | 3875                             |
| HUS28      | 16 | 1 1/8           | 7 3/32 | 3     | 6 3/32                      | 22-16d    | 8-16d  | 3605                             | 5365                             | 2675                             | 4345                             |
| HUS210     | 16 | 1 1/8           | 9 3/32 | 3     | 7 3/32                      | 30-16d    | 10-16d | 4505                             | 5795                             | 4010                             | 4740                             |
| HUS1.81/10 | 16 | 1 13/16         | 9      | 3     | 8                           | 30-16d    | 10-16d | 4505                             | 6450                             | 4010                             | 5200                             |

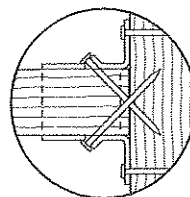
1. d<sub>g</sub> is the distance from the seat of the hanger to the highest joist nail.



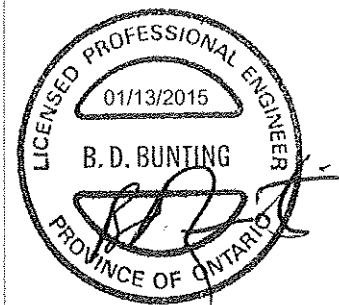
Dome Double  
Shear Nailing  
prevents tabs  
breaking off  
(available on  
some models).  
  
U.S. Patent  
5,603,580



Double  
Shear  
Nailing  
Side  
View. Do  
not bend  
tab back.



Double  
Shear  
Nailing  
Top View.



LIMIT  
STATES  
DESIGN

This technical bulletin is effective until December 31, 2016, and reflects information available as of January 1, 2015. This information is updated periodically and should not be relied upon after December 31, 2016; contact Simpson Strong-Tie for current information and limited warranty or see [www.strongtie.com](http://www.strongtie.com).

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T-SPECHUS15 1/15 exp. 12/16

800-999-5099  
[www.strongtie.com](http://www.strongtie.com)

# LUS – Double Shear Joist Hangers

**SIMPSON**  
**Strong-Tie**

All LUS hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections.

**MATERIAL:** 18 gauge

**FINISH:** G90 galvanized

**DESIGN:**

- Factored resistances are in accordance with CSA O86-14
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

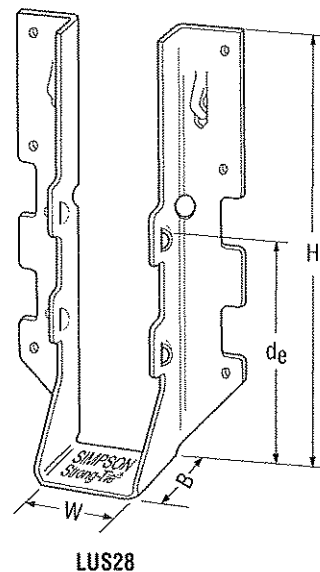
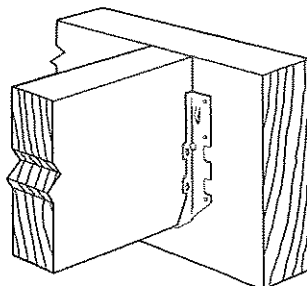
**INSTALLATION:**

- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire, 10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

**OPTIONS:**

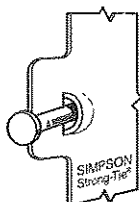
- These hangers cannot be modified.

Typical LUS Installation

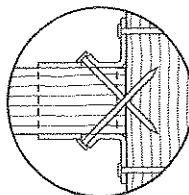


| Model No. | Ga | Dimensions (in) |    |    |                             | Fasteners |       | Factored Resistance (lbs)        |                                  |                                  |                                  |
|-----------|----|-----------------|----|----|-----------------------------|-----------|-------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |    | W               | H  | B  | d <sub>g</sub> <sup>1</sup> | Face      | Joist | D.Fir-L                          |                                  | S-P-F                            |                                  |
|           |    |                 |    |    |                             |           |       | Uplift<br>(K <sub>D</sub> =1.15) | Normal<br>(K <sub>D</sub> =1.00) | Uplift<br>(K <sub>D</sub> =1.15) | Normal<br>(K <sub>D</sub> =1.00) |
| LUS24     | 18 | 1½              | 3½ | 1¾ | 1½                          | 4-10d     | 2-10d | 710                              | 1630                             | 645                              | 1155                             |
| LUS24-2   | 18 | 3½              | 3½ | 2  | 1½                          | 4-16d     | 2-16d | 835                              | 2020                             | 590                              | 1435                             |
| LUS26     | 18 | 1½              | 4¾ | 1¾ | 3¾                          | 4-10d     | 4-10d | 1420                             | 2170                             | 1290                             | 1630                             |
| LUS26-2   | 18 | 3½              | 4¾ | 2  | 4                           | 4-16d     | 4-16d | 1720                             | 2595                             | 1545                             | 1920                             |
| LUS26-3   | 18 | 4¾              | 4¾ | 2  | 3¾                          | 4-16d     | 4-16d | 1720                             | 2595                             | 1545                             | 2340                             |
| LUS28     | 18 | 1½              | 6¾ | 1¾ | 3¾                          | 6-10d     | 4-10d | 1420                             | 2520                             | 1290                             | 1790                             |
| LUS28-2   | 18 | 3½              | 7  | 2  | 4                           | 6-16d     | 4-16d | 1720                             | 3325                             | 1545                             | 2575                             |
| LUS28-3   | 18 | 4¾              | 6¾ | 2  | 3¾                          | 6-16d     | 4-16d | 1720                             | 3325                             | 1545                             | 2375                             |
| LUS210    | 18 | 1½              | 7½ | 1¾ | 3¾                          | 8-10d     | 4-10d | 1420                             | 2785                             | 1290                             | 2210                             |
| LUS210-2  | 18 | 3½              | 9  | 2  | 6                           | 8-16d     | 6-16d | 2580                             | 4500                             | 2320                             | 3195                             |
| LUS210-3  | 18 | 4¾              | 8¾ | 2  | 5¾                          | 8-16d     | 6-16d | 2580                             | 3345                             | 2320                             | 2375                             |

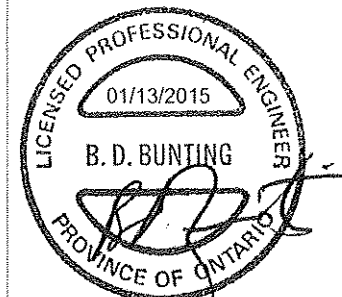
1. d<sub>g</sub> is the distance from the seat of the hanger to the highest joist nail.



Dome Double Shear Nailing prevents tabs breaking off (available on some models).  
U.S. Patent 5,603,580



Double Shear Nailing Top View.



LIMIT  
STATES  
DESIGN

This technical bulletin is effective until December 31, 2016, and reflects information available as of January 1, 2015. This information is updated periodically and should not be relied upon after December 31, 2016; contact Simpson Strong-Tie for current information and limited warranty or see [www.strongtie.com](http://www.strongtie.com).

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T-SPEC LUS15 1/15 exp. 12/16

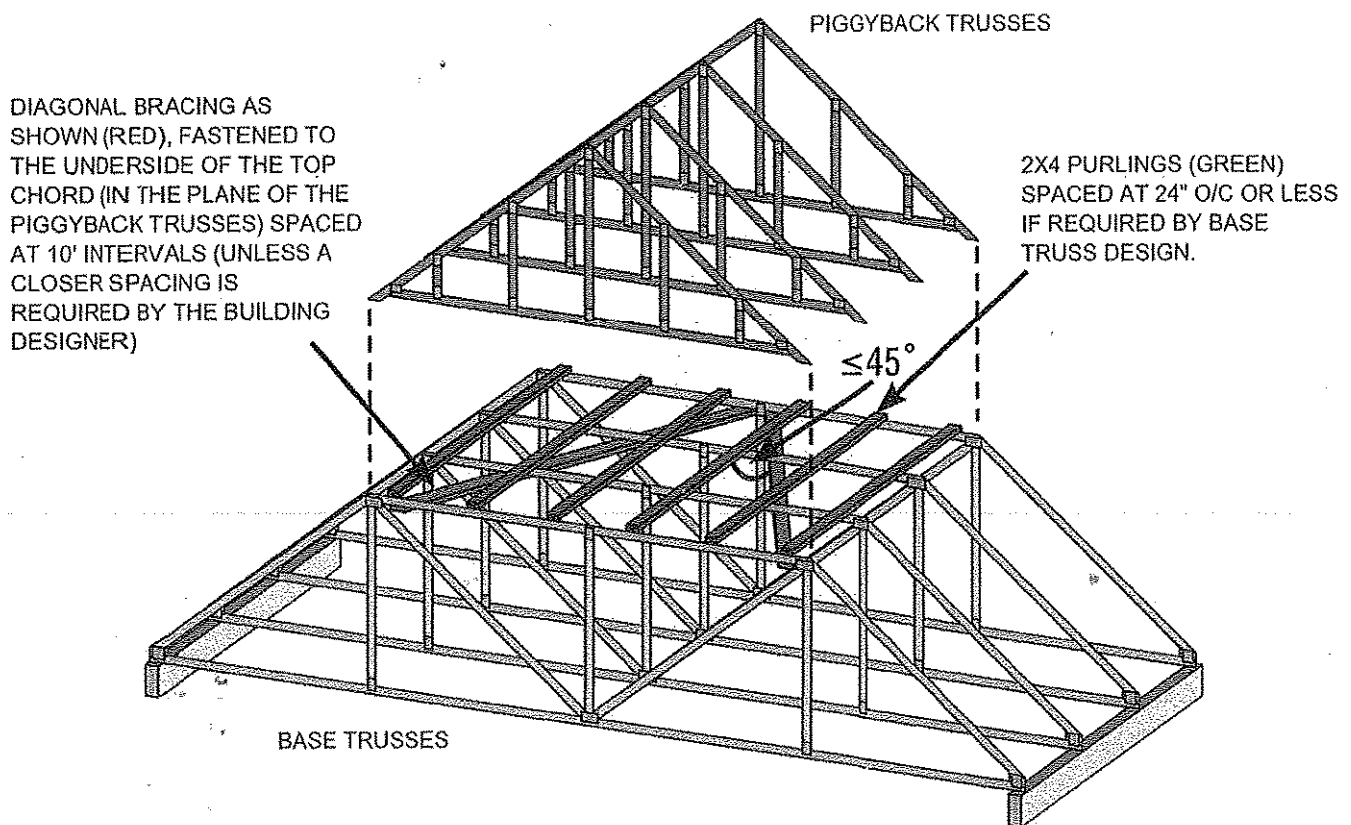
800-999-5099  
[www.strongtie.com](http://www.strongtie.com)

Overview:

Where piggybacks are connected overtop of base trusses, 2x4 purlins must be first added to the flat portion of the base truss at a spacing no more than 24" o/c. These purlins not only provide support for the piggyback trusses above, but are required to laterally support the top chord of the base truss which will not have the sheathing directly connected to the flat portion of the base truss. This ensures the top chord, most often in compression, will not buckle laterally.

Further, the purlins in the plane of the flat portion require diagonal bracing to prevent lateral displacement of the purlins themselves where under certain conditions, the trusses may in fact all buckle in the same direction if this additional bracing is not added in the plane of the purlins.

Detail:



NOTE: THE SLOPED PORTION OF THE TOP CHORD OF THE BASE TRUSS AND PIGGYBACK TRUSS IN THIS SKETCH IS ASSUMED TO BE SHEATHED IN ACCORDANCE WITH THE OBC.

SKETCH FROM BCSI-CANADA 2013

Disclaimer:

OWTFA Tech Notes are intended to provide guidance to the design community both within the membership as well as to third party designers who might benefit from the information. The details have been developed by the OWTFA technical committee and although there may be professional engineers involved in development, the information contained in the tech-note are not intended to be used without having a professional engineer review the information for a specific application. The OWTFA takes no responsibility with respect to the information provided but has developed this tech-note to offer guidance where it is not currently readily available.

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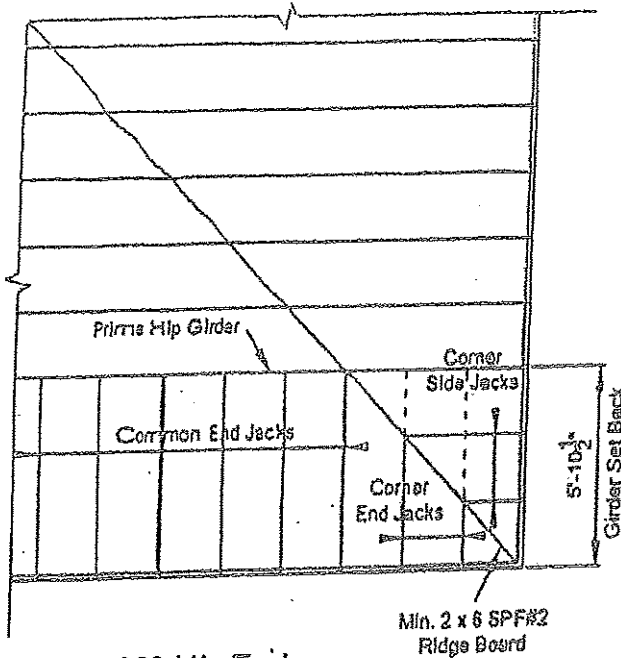
## LUMBER SPECIFICATION

TOP CHORD : 2 x 4 SPF#2

BOTTOM CHORD : 2 x 4 SPF#2

WEBS : 2 x 3 SPF#2

UNLESS OTHERWISE SHOWN



45° Hip End

## DESIGN LOAD:

TOP CHORD LIVE LOAD : 34.8 P.S.F.

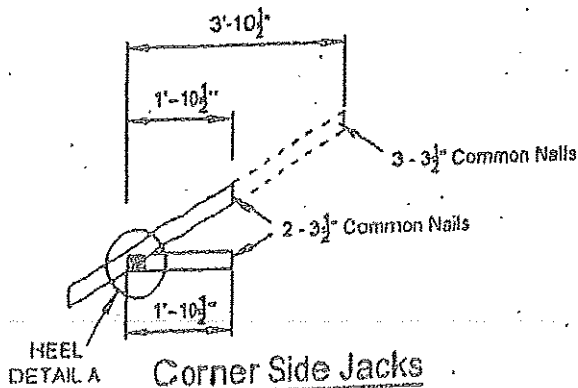
TOP CHORD DEAD LOAD : 3.0 P.S.F.

BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.

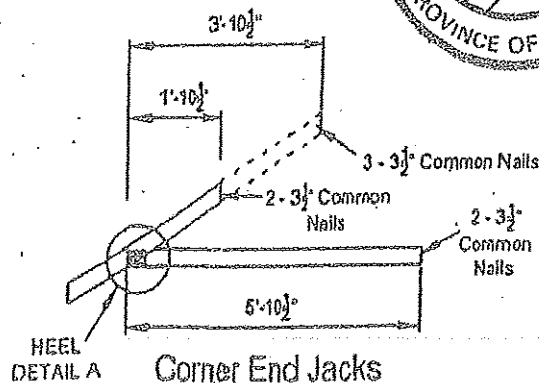
BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

TOTAL LOAD : 44.8 P.S.F.

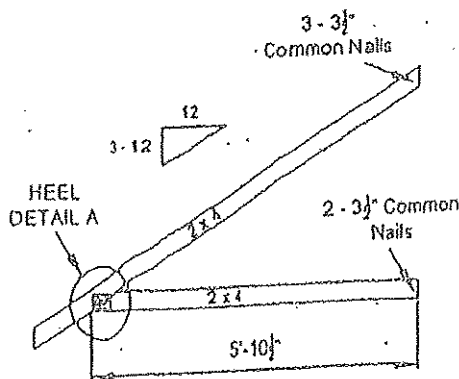
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COMPONENT ONLY



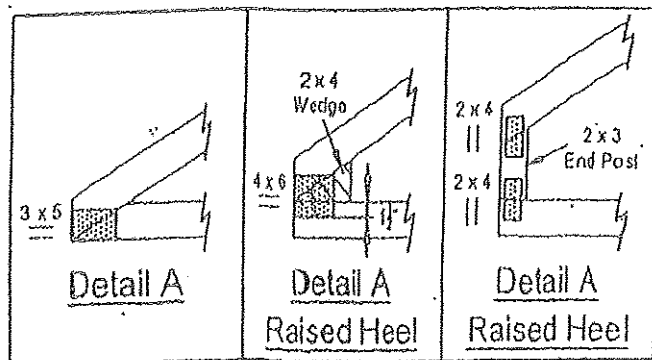
Corner Side Jacks



Corner End Jacks



Common End Jacks



NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (LIMIT STATES DESIGN)  
(TO BE INCLUDED AND USED AS PART OF A FULL TRUSS ENGINEERING PACKAGE)

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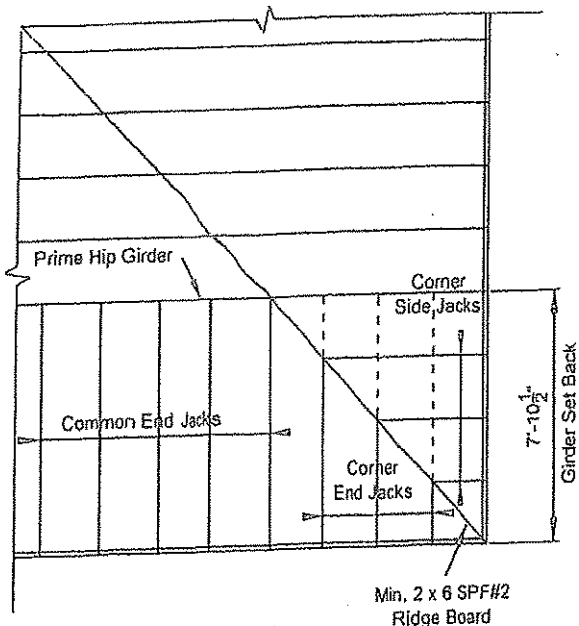
## LUMBER SPECIFICATION

TOP CHORD : 2 x 4 SPF#2  
BOTTOM CHORD : 2 x 4 SPF#2  
WEBS : 2 x 3 SPF#2  
UNLESS OTHERWISE SHOWN

## DESIGN LOAD:

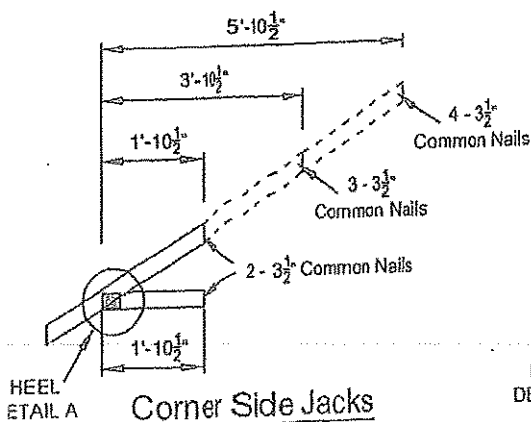
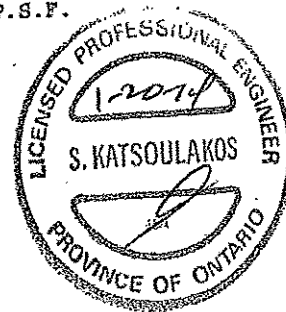
TOP CHORD LIVE LOAD : 34.8 P.S.F.  
TOP CHORD DEAD LOAD : 3.0 P.S.F.  
BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.  
BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

TOTAL LOAD : 44.8 P.S.F.

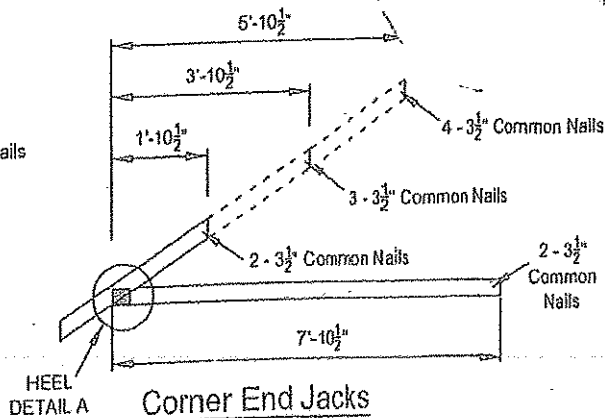


45° Hip End

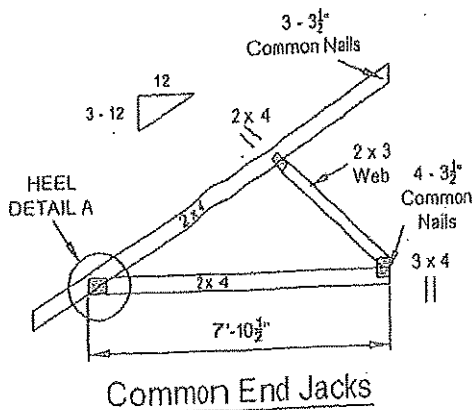
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COMPONENT ONLY



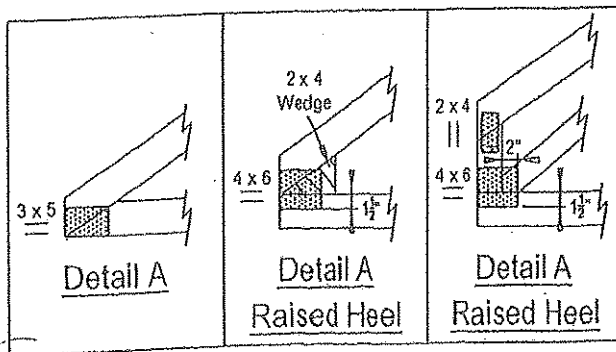
Corner Side Jacks



Corner End Jacks



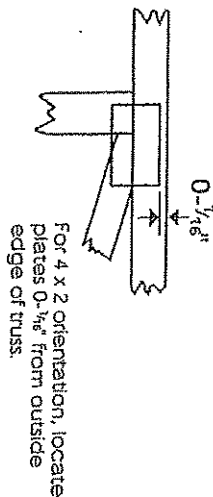
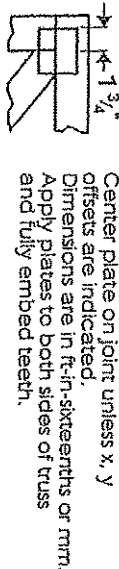
Common End Jacks



NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (LIMIT STATES DESIGN)  
(TO BE INCLUDED AND USED AS PART OF A FULL TRUSS ENGINEERING PACKAGE)

# Symbols

## PLATE LOCATION AND ORIENTATION



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

\* Plate location details available in Mitek software or upon request.

## PLATE SIZE

4 X 4

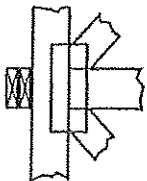
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING

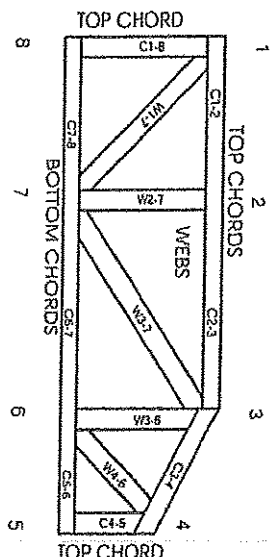


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:  
TPIC: Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses  
DSB-89: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8 dimensions shown in ft-in-sixteenths or mm (Drawings not to scale)



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

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

## PRODUCT CODE APPROVALS

CCMC Reports:

11996-L, 10319-L, 13270-L, 12691-R

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# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

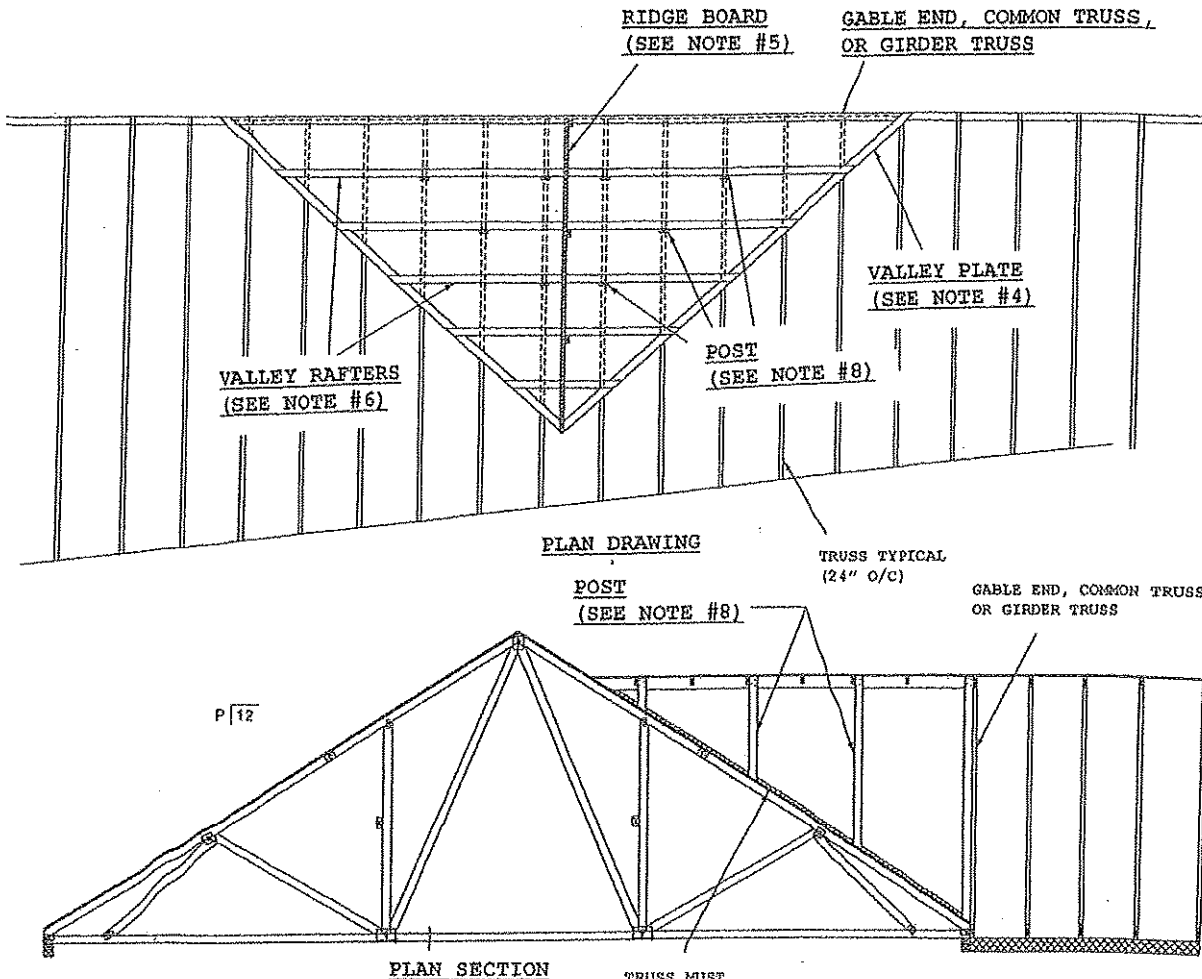
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by TPIC.
7. Design assumes trusses will be suitably protected from the environment in accord with TPIC.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Corrections not shown are the responsibility of other.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with TPIC Quality Criteria.

# MICRO CITY ENGINEERING SERVICES INC.

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## CONVENTIONAL VALLEY FRAMING DETAIL



### GENERAL SPECIFICATIONS:

- (1) WITH THE BASE TRUSSES ERECTED (INSTALLED), APPLY SHEATHING TOP CHORD OF SUPPORTING (BASE) TRUSSES.
- (2) BRACE BOTTOM CHORD AND WEB MEMBERS AS PER PRE-ENGINEERED TRUSS DESIGNS.
- (3) DEFINE VALLEY RIDGE BY RUNNING A LEVEL STRING FROM THE INTERSECTING RIDGE OF THE (a) GABLE END, (b) GIRDER TRUSS OR (c) COMMON TRUSS TO THE ROOF SHEATHING.
- (4) INSTALL 2 X 6 VALLEY PLATES ON FLAT. FASTEN TO EACH SUPPORTING TRUSS WITH (2) 16d (3.5" X 0.131") NAILS.
- (5) SET A 2 X 6 #2 RIDGE BOARD (MAX. 10'-0" RIDGE) OR 2 X 8 #2 SPF RIDGE BOARD (MAX. 20'-0" RIDGE). SUPPORT RIDGE BOARD WITH 2 X 4 POSTS SPACED 48" O/C. BEVEL BOTTOM OF POST TO SET EVENLY ON THE SHEATHING. FASTEN POST TO RIDGE WITH (4) 10d (3" X 0.131") NAILS. FASTEN POST TO ROOF SHEATHING WITH (3) 10d (3" X 0.131") TOE-NAILS.
- (6) FRAME VALLEY RAFTERS FROM VALLEY PLATE TO RIDGE BOARD. MAXIMUM RAFTER SPACING IS 24" O/C. FASTEN VALLEY RAFTER TO RIDGE BEAM WITH (3) 16d (3.5" X 0.131") TOE-NAILS. FASTEN VALLEY RAFTER TO VALLEY PLATE WITH (3) 16d (3.5" X 0.131") TOE-NAILS.
- (7) SUPPORT THE VALLEY RAFTERS WITH 2 X 4 POSTS AT 48" O/C (OR LESS) ALONG EACH RAFTER. INSTALL POSTS IN A STAGGERED PATTERN AS SHOWN ON PLAN DRAWING. ALIGN POSTS WITH TRUSSES BELOW. FASTEN VALLEY RAFTER TO POST WITH (4) 10d (3" X 0.131") NAILS. FASTEN POST THROUGH SHEATHING TO SUPPORTING TRUSSES WITH (2) 16d (3.5" X 0.131") NAILS.
- (8) POSTS SHALL BE 2 X 4 #2 SPF OR BETTER. POSTS EXCEEDING 75" IN HEIGHT SHALL BE INCREASED TO 4 X 4 #2 SPF, OR BETTER, OR BE PRE-ASSEMBLED TWO (2) PLY 2 X 4 #2 SPF OR BETTER FASTENED TOGETHER WITH 2 ROWS OF 10d (3" X 0.131") NAILS AT 6" O/C.
- (9) MAINTAIN A MINIMUM 3/4" LUMBER EDGE DISTANCE WHEN NAILING. NAIL SPACING SHOULD APPROXIMATE A MINIMUM 1-3/4" O/C OR MORE UNLESS NOTED OTHERWISE. ALL CONSTRUCTION TO CONFORM TO ONTARIO BUILDING CODE (CURRENT ADDITION) AT ALL TIMES.

TRUSS MUST  
BE SHEATHED

### NOTES:

- (10) 48" O/C (MAXIMUM POST SPACING).
- (11) ROOF LIVE LOAD = 34.8 PSF (MAX.)
- (12) ROOF DEAD LOAD = 10.0 PSF (MAX.)
- (13) PART 9 APPLICATION ONLY (ONTARIO BUILDING CODE)
- (14) PART 4 APPLICATION ONLY (ONTARIO BUILDING CODE) WITH APPROVED REVIEW BY LICENSED PROFESSIONAL ENGINEER.
- (15) BASE TRUSS SPACING (24" O/C MAX.)
- (16) ALL PRE-ENGINEERED BASE TRUSS COMPONENTS TO BE SEALED BY LICENSED PROFESSIONAL ENGINEER AND THIS DETAIL TO BE VERIFIED AND APPROVED BY SAME WHEN RIDGE BOARD LENGTH EXCEEDS 12'-0".
- (17) ALL BASE TRUSSES: P = 4 (4/12) - MINIMUM.
- (18) ALL VALLEY RAFTERS: P = 4 (4/12) - MINIMUM.

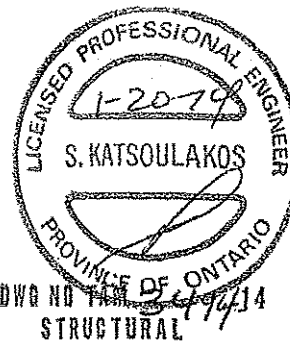


DWG NO T&M 6305.14  
STRUCTURAL  
COMPONENT ONLY

Micro City Engineering Services Inc.  
(BCIN: 26064; FIRM BCIN: 29991)

RR #1, Po Box 61  
Glencoe, Ontario  
N0L 1M0

(519) 287 - 2242; Fax: (519) 287 - 5750 (Call)



### Responsibilities:

Micro City Engineering Services is responsible for the design of trusses as individual components.

It is the responsibilities of others to ascertain that the design loads utilized on this (these) drawing(s) meet or exceed the actual dead load imposed by the structure and the live load imposed by the local building code or the authorities having jurisdiction over such decisions.

All dimensions are to be verified by the owner, contractor, architect, or other authority having input over such decisions prior to truss component manufacture. At no time shall Micro City Engineering Services Inc. or its employees be responsible for dimension errors.

Micro City Engineering Services Inc. bears no responsibility for the erection of any truss components. Persons erecting truss components are cautioned to seek professional advice regarding temporary and permanent bracing systems and to be totally familiar with all aspects of truss erection prior to proceeding on any truss component erection job. Any bracing shown on Micro City Engineering Services Inc. or Tamarack Roof Trusses Inc. sealed or unsealed truss component drawings is specified for the single truss component in question and is identified as an integral part of the design for that particular truss component but is not meant to represent the only required bracing for that particular truss component when installed as a component in a series of truss components in a roof truss system.

It is the truss manufacturer's responsibility to ensure that trusses are manufactured in accordance with Micro City Engineering Services Inc. specifications outlined below:

### SPECIFICATIONS:

Truss components sealed by Micro City Engineering Services Inc. must conform to the relevant sections of the current Building Code of Ontario and Canada (Part 4 or Part 9) or the current Farm Building Code of Canada in accordance with the application specified on the sealed truss component drawing. All truss component design procedures must conform to the current design standard issued by the Truss Plate Institute of Canada (TPIC). All unit lumber and nailing stresses identified on truss component design drawings and/or used in the design of individual truss components shall conform to the current CSA Wood Design standard identified in the current Building Code and TPIC Design Standards.

The lumber used to manufacture any truss component is to conform to the specified size and grade identified on the truss drawing.

The lumber used in the manufacture of any truss component is not to exceed 19% during its service use unless specifically noted on the truss drawing.

The lumber used in the manufacture of any truss component is not to be treated with any chemicals during its service life unless specifically noted on the truss drawing.

Connector plates shall be applied to both faces of the truss component at each joint and shall be positioned exactly as specified.

The top chord of any truss component is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals specified on the sealed truss component drawing but not exceeding 24" o/c (Part 9 design) and not exceeding 48" o/c (Part 4 or Agricultural design).

When a truss component is to be installed with no rigid ceiling attached directly to the bottom chord, then the bottom chord is to be laterally braced at intervals not exceeding 3m (or 10'-0").

All sealed or unsealed truss component drawings provided by Micro City Engineering Services Inc. Or Tamarack Roof Trusses Inc. should be read in conjunction with the following:

Warning-Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473C rev 10-'08 BEFORE USE. Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for individual building component. Applicability of design parameters and proper incorporation of component is the responsibility of the building designer - not the truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection, and bracing, consult TPIC Appendix G - Minimum Quality Manufacturing Criteria available from [www.tpica.ca](http://www.tpica.ca) and BCSI Building Component Safety Information available from the Truss Plate Institute, 781 N. Lee Street, Suite 312, Alexandria, VA, 22314.