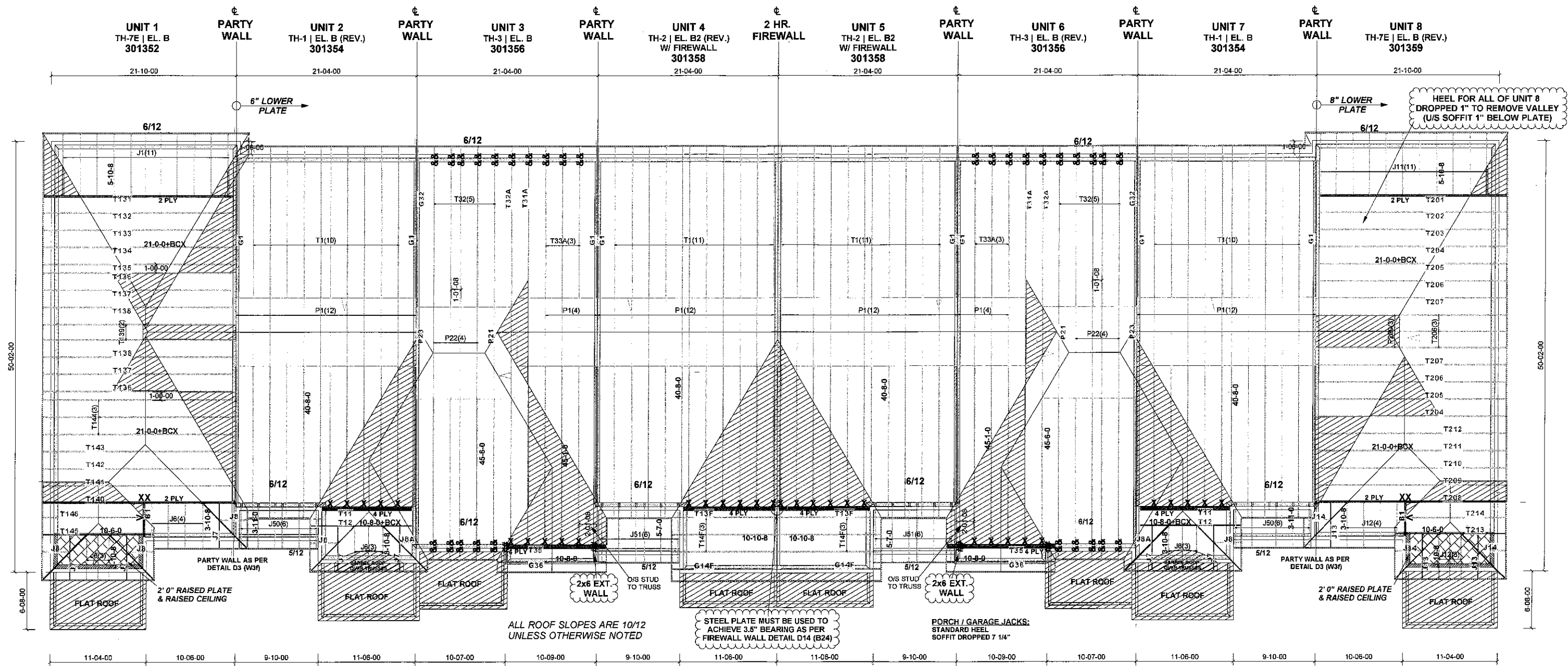




ASPHALT SHINGLES  
12" FINISHED O.H.  
5" CLADDING ALLOWANCE (BRICK)  
2" CLADDING ALLOWANCE (STUCCO)  
2x6 EXTERIOR WALLS  
2x6 FASCIA BOARD  
HEEL: R.T.M.C.

T - 180523

ALL CONV. FRAMING TO CONFORM  
WITH PART 9 OF O.B.C. 2012 ROOF  
RAFTERS THAT CROSS OVER OR  
MEET TRUSSES TO BE 2x4 SPF #2 24"  
O.C. WITH A VERT. POST TO THE TRUSS  
UNDERNEATH AT EACH CROSS PT.  
VERT. POST LONGER THAN 6'  
TO HAVE LATERAL BRACING SO  
THAT THE DIST. BETWEEN END PT.  
& BETWEEN ROWS OF BRACING  
DOES NOT EXCEED 6'

DESIGN CONFORMS WITH OBC 2012 / 2018  
OCCUPANCY: RESIDENTIAL | PART: 9  
GROUND SNOW LOAD  $S_s=54.3\text{psf}$   $S_r=8.4\text{psf}$   
DESIGN LOADS  
TCDL (6psf)  
BCLL (10.5psf)  
BCDL (7psf)

DENOTES:  
CONVENTIONAL  
FRAMING

HARDWARE:  
LJS28DS - (V)  
HGUS26 - (X)  
HGUS26-2 - (XX)  
TS22 x2 - (##)  
TBE6 x2 - (&&)

BEAMS:  
B1: 2 - 2x10 SPF #2

m11,896



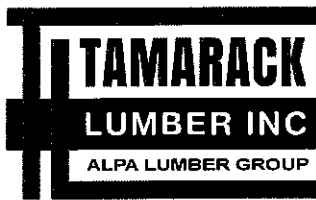
Job Track: 42067  
Layout ID: 297078  
Plan Log: 97625

Builder / Location:  
**BAYVIEW WELLINGTON / INNISFIL**  
Project: **ALCONA SHORES**  
Date: 08/23/18 Designer: colinh

Model / Elevation:  
**BLOCK 139 / UNITS 1-8**

Mitek ver 7.5.0

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.



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 08/23/18 |
| SALES REP | Mario    |

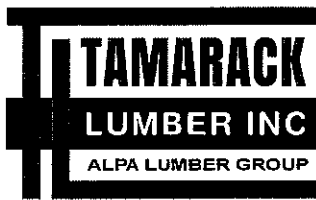


|                                        |                   |                    |
|----------------------------------------|-------------------|--------------------|
| JOB TRACK: 42067                       | LAYOUT ID: 301352 | LOCATION: INNISFIL |
| BUILDER: BAYVIEW WELLINGTON/ALCONA SHO | SUB-BUILDER:      |                    |
| MODEL: TH-7E                           | 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     | T131<br>HIP GIRDER | 10.00<br>0.00     | 21-00-00 | 04-01-04        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-07-11<br>00-05-08         | 203.62           |                     |                     |
|         | 2 Ply |                    |                   |          |                 |        |       |                           |                              | 128.00           |                     |                     |
|         | 1     | T132<br>HIP        | 10.00<br>0.00     | 21-00-00 | 05-01-04        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-07-11<br>00-05-08         | 105.77<br>66.33  |                     |                     |
|         | 1     | T133<br>HIP        | 10.00<br>0.00     | 21-00-00 | 06-01-04        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-07-11<br>00-05-08         | 109.41<br>69.33  |                     |                     |
|         | 1     | T134<br>HIP        | 10.00<br>0.00     | 21-00-00 | 07-01-04        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-07-11<br>00-05-08         | 115.19<br>73.17  |                     |                     |
|         | 1     | T135<br>HIP        | 10.00<br>0.00     | 21-00-00 | 08-01-04        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-07-11<br>00-05-08         | 119.09<br>74.67  |                     |                     |
|         | 2     | T136<br>HALF HIP   | 10.00<br>0.00     | 21-00-00 | 07-04-04        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-07-11<br>00-05-08         | 239.06<br>148.00 |                     |                     |
|         | 2     | T137<br>HALF HIP   | 10.00<br>0.00     | 21-00-00 | 08-04-04        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-07-11<br>00-05-08         | 252.76<br>156.34 |                     |                     |
|         | 2     | T138<br>HALF HIP   | 10.00<br>0.00     | 21-00-00 | 09-04-04        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-07-11<br>00-05-08         | 258.60<br>159.00 |                     |                     |
|         | 2     | T139<br>HALF HIP   | 10.00<br>0.00     | 21-00-00 | 10-04-04        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-07-11<br>00-05-08         | 282.90<br>173.34 |                     |                     |
|         | 1     | T140<br>HIP GIRDER | 10.00<br>0.00     | 21-00-00 | 04-10-07        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-07-11<br>00-05-08         | 212.52           |                     |                     |
|         | 2 Ply |                    |                   |          |                 |        |       |                           |                              | 134.00           |                     |                     |
|         | 1     | T141<br>HIP        | 10.00<br>0.00     | 21-00-00 | 06-06-07        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-07-11<br>00-05-08         | 111.88<br>70.50  |                     |                     |
|         | 1     | T142<br>HIP        | 10.00<br>0.00     | 21-00-00 | 08-02-07        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-07-11<br>00-05-08         | 116.24<br>72.67  |                     |                     |
|         | 1     | T143<br>HIP        | 10.00<br>0.00     | 21-00-00 | 09-10-07        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-07-11<br>00-05-08         | 124.06<br>78.33  |                     |                     |
|         | 3     | T144<br>COMMON     | 10.00<br>0.00     | 21-00-00 | 10-07-03        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-07-11<br>00-05-08         | 359.82<br>222.00 |                     |                     |
|         | 1     | T145<br>HIP GIRDER | 10.00<br>0.00     | 10-06-00 | 04-10-07        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-07-11<br>01-07-11         | 50.89<br>32.83   |                     |                     |
|         | 1     | T146<br>COMMON     | 10.00<br>0.00     | 10-06-00 | 08-00-03        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 03-07-11<br>03-07-11         | 54.75<br>34.67   |                     |                     |
|         | 11    | 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         | 184.69<br>117.37 |                     |                     |
|         | 7     | J6<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>04-10-07         | 106.61<br>67.69  |                     |                     |



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 08/23/18 |
| SALES REP | Mario    |



|                                        |                   |                    |
|----------------------------------------|-------------------|--------------------|
| JOB TRACK:42067                        | LAYOUT ID: 301352 | LOCATION: INNISFIL |
| BUILDER: BAYVIEW WELLINGTON/ALCONA SHO | SUB-BUILDER:      |                    |
| MODEL: TH-7E                           | 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   |                           |                              |                |                     |                     |
|         | 3   | J7<br>JACK-OPEN | 10.00<br>0.00     | 01-09-07 | 03-01-09        | 2 X 4  | 2 X 4 | 01-03-08<br>02-01-01      | 01-07-11<br>00-03-08         | 31.95<br>21.99 |                     |                     |
|         | 3   | J8<br>JACK-OPEN | 10.00<br>0.00     | 01-09-07 | 03-01-09        | 2 X 4  | 2 X 4 | 01-03-08<br>00-01-01      | 01-07-11<br>00-03-08         | 25.11<br>18.00 |                     |                     |

TOTAL # TRUSS= 48.00

TOTAL BFT OF ALL TRUSSES=

1918.23 BFT. TOTAL WEIGHT OF ALL TRUSSES= 3064.92 LBS.

### HARDWARE

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

TOTAL # ITEMS= 2.00



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 08/23/18 |
| SALES REP | Mario    |



|                                        |                   |                    |
|----------------------------------------|-------------------|--------------------|
| JOB TRACK: 42067                       | LAYOUT ID: 301354 | LOCATION: INNISFIL |
| BUILDER: BAYVIEW WELLINGTON/ALCONA SHO | SUB-BUILDER:      |                    |
| MODEL: TH-1                            | ELEVATION: B      |                    |

### ROOF TRUSSES

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

| PROFILE | QTY        | MARK TYPE         | PITCH TC BC   | SPAN     | TRUSS HEIGHT | LUMBER |       | OVERHANG LEFT RIGHT   | HEEL HEIGHT LEFT RIGHT | LBS. BFT.          | BUNDLE # STACK # | LOAD BY: REMARKS |
|---------|------------|-------------------|---------------|----------|--------------|--------|-------|-----------------------|------------------------|--------------------|------------------|------------------|
|         | PLY        |                   |               |          |              | TOP    | BOT   |                       |                        |                    |                  |                  |
|         | 10         | T1<br>PIGGYBACK   | 6.00<br>0.00  | 40-08-00 | 09-04-03     | 2 X 4  | 2 X 6 | 01-03-08<br>01-03-08  | 01-02-00<br>01-02-00   | 2086.80<br>1263.30 |                  |                  |
|         | 2          | G1<br>PIGGYBACK   | 6.00<br>0.00  | 40-08-00 | 09-04-03     | 2 X 4  | 2 X 6 | 01-03-08<br>01-03-08  | 01-02-00<br>01-02-00   | 435.38<br>267.00   |                  |                  |
|         | 1<br>4 Ply | T11<br>COMMON     | 10.00<br>0.00 | 10-08-00 | 06-03-08     | 2 X 6  | 2 X 8 | 00-00-00<br>00-00-00  | 01-07-11<br>00-07-04   | 332.08<br>208.00   |                  |                  |
|         | 1          | T12<br>HIP GIRDER | 10.00<br>0.00 | 10-08-00 | 04-10-07     | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00  | 01-07-11<br>00-05-08   | 56.88<br>38.00     |                  |                  |
|         | 12         | P1<br>PIGGYBACK   | 6.00<br>0.00  | 06-00-10 | 01-10-05     | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00  | 00-04-03<br>00-04-03   | 204.24<br>135.96   |                  |                  |
|         | 3          | J6<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>04-10-07   | 45.69<br>29.01     |                  |                  |
|         | 2          | J7<br>JACK-OPEN   | 10.00<br>0.00 | 01-09-07 | 03-01-09     | 2 X 4  | 2 X 4 | 01-03-08<br>02-01-01  | 01-07-11<br>00-03-08   | 21.30<br>14.66     |                  |                  |
|         | 1          | J8<br>JACK-OPEN   | 10.00<br>0.00 | 01-09-07 | 03-01-09     | 2 X 4  | 2 X 4 | 01-03-08<br>00-01-01  | 01-07-11<br>00-03-08   | 8.37<br>6.00       |                  |                  |
|         | 1          | J8A<br>JACK-OPEN  | 10.00<br>0.00 | 01-04-08 | 03-01-09     | 2 X 4  | 2 X 4 | 00-00-00<br>-00-01-01 | 00-03-08<br>00-03-08   | 6.47<br>4.67       |                  |                  |
|         | 6          | J50<br>JACK-OPEN  | 5.00<br>0.00  | 03-11-00 | 02-00-15     | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00  | 00-05-06<br>02-00-05   | 66.24<br>40.02     |                  |                  |

TOTAL # TRUSS= 42.00

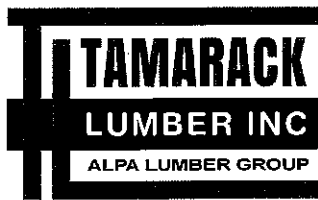
TOTAL BFT OF ALL TRUSSES=

2006.62 BFT. TOTAL WEIGHT OF ALL TRUSSES= 3263.45 LBS.

### HARDWARE

| QTY | ITEM TYPE | MODEL  | LENGTH FT-IN-16 |
|-----|-----------|--------|-----------------|
| 5   | Hangers   | HGUS26 |                 |

TOTAL # ITEMS= 5.00



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 08/23/18 |
| SALES REP | Mario    |

|                                        |                   |                    |
|----------------------------------------|-------------------|--------------------|
| JOB TRACK: 42067                       | LAYOUT ID: 301356 | LOCATION: INNISFIL |
| BUILDER: BAYVIEW WELLINGTON/ALCONA SHO | SUB-BUILDER:      |                    |
| MODEL: TH-3                            | ELEVATION: B      |                    |

### 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 |       | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.      | BUNDLE #<br>STACK # | LOAD BY:<br>REMARKS |
|---------|------------|--------------------------|-------------------|----------|-----------------|--------|-------|---------------------------|------------------------------|-------------------|---------------------|---------------------|
|         |            |                          |                   |          |                 | TOP    | BOT   |                           |                              |                   |                     |                     |
|         | 1          | <b>G1</b><br>PIGGYBACK   | 6.00<br>0.00      | 40-08-00 | 09-04-03        | 2 X 4  | 2 X 6 | 01-03-08<br>01-03-08      | 01-02-00<br>01-02-00         | 217.69<br>133.50  |                     |                     |
|         | 1          | <b>T31A</b><br>HIP       | 6.00<br>0.00      | 45-01-00 | 08-02-07        | 2 X 6  | 2 X 6 | 01-03-08<br>00-00-00      | 01-02-00<br>01-04-08         | 264.47<br>159.33  |                     |                     |
|         | 5          | <b>T32</b><br>PIGGYBACK  | 6.00<br>0.00      | 45-06-00 | 09-10-07        | 2 X 6  | 2 X 6 | 01-03-08<br>01-03-08      | 01-02-00<br>01-02-00         | 1436.65<br>850.85 |                     |                     |
|         | 1          | <b>G32</b><br>PIGGYBACK  | 6.00<br>0.00      | 45-06-00 | 09-10-07        | 2 X 6  | 2 X 6 | 01-03-08<br>01-03-08      | 01-02-00<br>01-02-00         | 287.34<br>181.17  |                     |                     |
|         | 1          | <b>T32A</b><br>HIP       | 6.00<br>0.00      | 45-01-00 | 09-10-07        | 2 X 6  | 2 X 6 | 01-03-08<br>00-00-00      | 01-02-00<br>01-04-08         | 281.51<br>169.17  |                     |                     |
|         | 3          | <b>T33A</b><br>PIGGYBACK | 6.00<br>0.00      | 45-01-00 | 09-04-03        | 2 X 6  | 2 X 6 | 01-03-08<br>00-00-00      | 01-02-00<br>03-02-07         | 835.83<br>500.49  |                     |                     |
|         | 1<br>4 Ply | <b>T35</b><br>COMMON     | 10.00<br>0.00     | 10-08-00 | 05-10-08        | 2 X 6  | 2 X 6 | 01-03-08<br>01-00-08      | 01-05-03<br>01-05-03         | 320.48<br>201.32  |                     |                     |
|         | 1          | <b>G36</b><br>COMMON     | 10.00<br>0.00     | 10-08-00 | 05-10-08        | 2 X 4  | 2 X 4 | 01-00-08<br>01-00-08      | 01-05-03<br>01-05-03         | 49.49<br>31.67    |                     |                     |
|         | 4          | <b>P1</b><br>PIGGYBACK   | 6.00<br>0.00      | 06-00-10 | 01-10-05        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 00-04-03<br>00-04-03         | 68.08<br>45.32    |                     |                     |
|         | 1          | <b>P21</b><br>PIGGYBACK  | 6.00<br>0.00      | 08-09-10 | 01-06-08        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 00-04-03<br>00-04-03         | 27.72<br>17.67    |                     |                     |
|         | 4          | <b>P22</b><br>PIGGYBACK  | 6.00<br>0.00      | 08-09-10 | 02-06-09        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 00-04-03<br>00-04-03         | 100.92<br>60.00   |                     |                     |
|         | 1          | <b>P23</b><br>PIGGYBACK  | 6.00<br>0.00      | 08-09-10 | 00-11-00        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 00-04-03<br>00-04-03         | 24.14<br>17.17    |                     |                     |

TOTAL # TRUSS= 27.00

TOTAL BFT OF ALL TRUSSES=

2367.66 BFT. TOTAL WEIGHT OF ALL TRUSSES= 3914.32 LBS.

### HARDWARE

| QTY | ITEM TYPE | MODEL  | LENGTH<br>FT-IN-16 |
|-----|-----------|--------|--------------------|
| 5   | Hangers   | HGUS26 |                    |
| 30  | Hangers   | TBE6   |                    |
| 4   | Hangers   | TS22   |                    |

TOTAL # ITEMS= 39.00



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 08/23/18 |
| SALES REP | Mario    |



JOB TRACK: 42067 LAYOUT ID: 301358 LOCATION: INNISFIL  
 BUILDER: BAYVIEW WELLINGTON/ALCONA SHO SUB-BUILDER:  
 MODEL: TH-2 ELEVATION: B2 W/ FIREWALL

### 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   |                           |                              |                    |                     |                     |
|         | 11         | T1<br>PIGGYBACK   | 6.00<br>0.00      | 40-08-00 | 09-04-03        | 2 X 4  | 2 X 6 | 01-03-08<br>01-03-08      | 01-02-00<br>01-02-00         | 2295.48<br>1389.63 |                     |                     |
|         | 1          | G1<br>PIGGYBACK   | 6.00<br>0.00      | 40-08-00 | 09-04-03        | 2 X 4  | 2 X 6 | 01-03-08<br>01-03-08      | 01-02-00<br>01-02-00         | 217.69<br>133.50   |                     |                     |
|         | 1<br>4 Ply | T13F<br>MONOPITCH | 10.00<br>0.00     | 10-10-08 | 10-05-08        | 2 X 6  | 2 X 8 | 00-00-00<br>00-00-00      | 01-07-11<br>00-00-04         | 393.16<br>249.32   |                     |                     |
|         | 3          | T14F<br>MONOPITCH | 10.00<br>0.00     | 10-10-08 | 10-05-08        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-07-11<br>00-00-04         | 180.12<br>114.00   |                     |                     |
|         | 1          | G14F<br>MONOPITCH | 10.00<br>0.00     | 10-07-00 | 10-05-08        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-07-11<br>10-05-08         | 66.76<br>42.50     |                     |                     |
|         | 12         | P1<br>PIGGYBACK   | 6.00<br>0.00      | 06-00-10 | 01-10-05        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 00-04-03<br>00-04-03         | 204.24<br>135.96   |                     |                     |
|         | 6          | J51<br>JACK-OPEN  | 5.00<br>0.00      | 05-07-00 | 02-09-05        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 00-05-06<br>02-08-11         | 90.00<br>55.98     |                     |                     |

TOTAL # TRUSS= 38.00

TOTAL BFT OF ALL TRUSSES=

2120.89 BFT. TOTAL WEIGHT OF ALL TRUSSES= 3447.45 LBS.

### HARDWARE

| QTY | ITEM TYPE | MODEL  | LENGTH<br>FT-IN-16 |
|-----|-----------|--------|--------------------|
| 6   | Hangers   | HGUS26 |                    |

TOTAL # ITEMS= 6.00



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 08/23/18 |
| SALES REP | Mario    |

Page 1 of 2

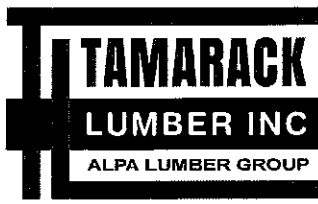


JOB TRACK: 42067 LAYOUT ID: 301359 LOCATION: INNISFIL  
 BUILDER: BAYVIEW WELLINGTON/ALCONA SHO SUB-BUILDER:  
 MODEL: TH-7E ELEVATION: B

### 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     | T201<br>HALF HIP   | 10.00<br>0.00     | 21-00-00 | 04-00-04        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-06-11<br>00-05-08         | 199.78       |                     |                     |
|         | 2 Ply |                    |                   |          |                 |        |       |                           |                              | 126.66       |                     |                     |
|         | 1     | T202<br>HALF HIP   | 10.00<br>0.00     | 21-00-00 | 05-00-04        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-06-11<br>00-05-08         | 102.59       |                     |                     |
|         |       |                    |                   |          |                 |        |       |                           |                              | 63.33        |                     |                     |
|         | 1     | T203<br>HALF HIP   | 10.00<br>0.00     | 21-00-00 | 06-00-04        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-06-11<br>00-05-08         | 110.66       |                     |                     |
|         |       |                    |                   |          |                 |        |       |                           |                              | 69.00        |                     |                     |
|         | 2     | T204<br>HALF HIP   | 10.00<br>0.00     | 21-00-00 | 07-00-04        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-06-11<br>00-05-08         | 234.36       |                     |                     |
|         |       |                    |                   |          |                 |        |       |                           |                              | 145.66       |                     |                     |
|         | 2     | T205<br>HALF HIP   | 10.00<br>0.00     | 21-00-00 | 08-00-04        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-06-11<br>00-05-08         | 247.94       |                     |                     |
|         |       |                    |                   |          |                 |        |       |                           |                              | 156.34       |                     |                     |
|         | 5     | T206<br>HALF HIP   | 10.00<br>0.00     | 21-00-00 | 09-00-04        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-06-11<br>00-05-08         | 636.05       |                     |                     |
|         |       |                    |                   |          |                 |        |       |                           |                              | 397.50       |                     |                     |
|         | 2     | T207<br>HALF HIP   | 10.00<br>0.00     | 21-00-00 | 10-00-04        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-06-11<br>00-05-08         | 266.26       |                     |                     |
|         |       |                    |                   |          |                 |        |       |                           |                              | 164.34       |                     |                     |
|         | 1     | T208<br>HIP GIRDER | 10.00<br>0.00     | 21-00-00 | 04-09-07        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-06-11<br>00-05-08         | 211.00       |                     |                     |
|         | 2 Ply |                    |                   |          |                 |        |       |                           |                              | 134.00       |                     |                     |
|         | 1     | T209<br>HIP        | 10.00<br>0.00     | 21-00-00 | 06-05-07        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-06-11<br>00-05-08         | 111.07       |                     |                     |
|         |       |                    |                   |          |                 |        |       |                           |                              | 69.83        |                     |                     |
|         | 1     | T210<br>HIP        | 10.00<br>0.00     | 21-00-00 | 08-01-07        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-06-11<br>00-05-08         | 113.66       |                     |                     |
|         |       |                    |                   |          |                 |        |       |                           |                              | 71.00        |                     |                     |
|         | 1     | T211<br>HIP        | 10.00<br>0.00     | 21-00-00 | 09-09-07        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-06-11<br>00-05-08         | 123.39       |                     |                     |
|         |       |                    |                   |          |                 |        |       |                           |                              | 77.67        |                     |                     |
|         | 1     | T212<br>COMMON     | 10.00<br>0.00     | 21-00-00 | 10-06-03        | 2 X 4  | 2 X 6 | 01-03-08<br>00-00-00      | 01-06-11<br>00-05-08         | 119.33       |                     |                     |
|         |       |                    |                   |          |                 |        |       |                           |                              | 72.83        |                     |                     |
|         | 1     | T213<br>HIP GIRDER | 10.00<br>0.00     | 10-06-00 | 04-09-07        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-06-11<br>01-06-11         | 50.46        |                     |                     |
|         |       |                    |                   |          |                 |        |       |                           |                              | 32.83        |                     |                     |
|         | 1     | T214<br>COMMON     | 10.00<br>0.00     | 10-06-00 | 07-11-03        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 03-06-11<br>03-06-11         | 54.41        |                     |                     |
|         |       |                    |                   |          |                 |        |       |                           |                              | 34.67        |                     |                     |
|         | 3     | P200<br>PIGGYBACK  | 10.00<br>0.00     | 11-04-15 | 01-10-08        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 00-04-13<br>01-10-08         | 116.61       |                     |                     |
|         |       |                    |                   |          |                 |        |       |                           |                              | 77.01        |                     |                     |
|         | 11    | J11<br>JACK-OPEN   | 6.00<br>0.00      | 05-10-08 | 04-00-04        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-01-00<br>04-00-04         | 183.59       |                     |                     |
|         |       |                    |                   |          |                 |        |       |                           |                              | 117.37       |                     |                     |
|         | 7     | J12<br>JACK-OPEN   | 10.00<br>0.00     | 03-10-08 | 04-09-07        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-06-11<br>04-09-07         | 105.63       |                     |                     |
|         |       |                    |                   |          |                 |        |       |                           |                              | 67.69        |                     |                     |
|         | 3     | J13<br>JACK-OPEN   | 10.00<br>0.00     | 01-09-07 | 03-00-09        | 2 X 4  | 2 X 4 | 01-03-08<br>02-01-01      | 01-06-11<br>00-03-08         | 31.65        |                     |                     |
|         |       |                    |                   |          |                 |        |       |                           |                              | 21.99        |                     |                     |



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 08/23/18 |
| SALES REP | Mario    |



|                                        |                   |                    |
|----------------------------------------|-------------------|--------------------|
| JOB TRACK: 42067                       | LAYOUT ID: 301359 | LOCATION: INNISFIL |
| BUILDER: BAYVIEW WELLINGTON/ALCONA SHO | SUB-BUILDER:      |                    |
| MODEL: TH-7E                           | 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   |                           |                              |                |                     |                     |
|  | 3   | J14<br>JACK-OPEN | 10.00<br>0.00     | 01-09-07 | 03-00-09        | 2 X 4  | 2 X 4 | 01-03-08<br>00-01-01      | 01-06-11<br>00-03-08         | 24.81<br>18.00 |                     |                     |

TOTAL # TRUSS= 50.00

TOTAL BFT OF ALL TRUSSES=

1917.72 BFT. TOTAL WEIGHT OF ALL TRUSSES= 3043.25 LBS.

### HARDWARE

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

TOTAL # ITEMS= 2.00



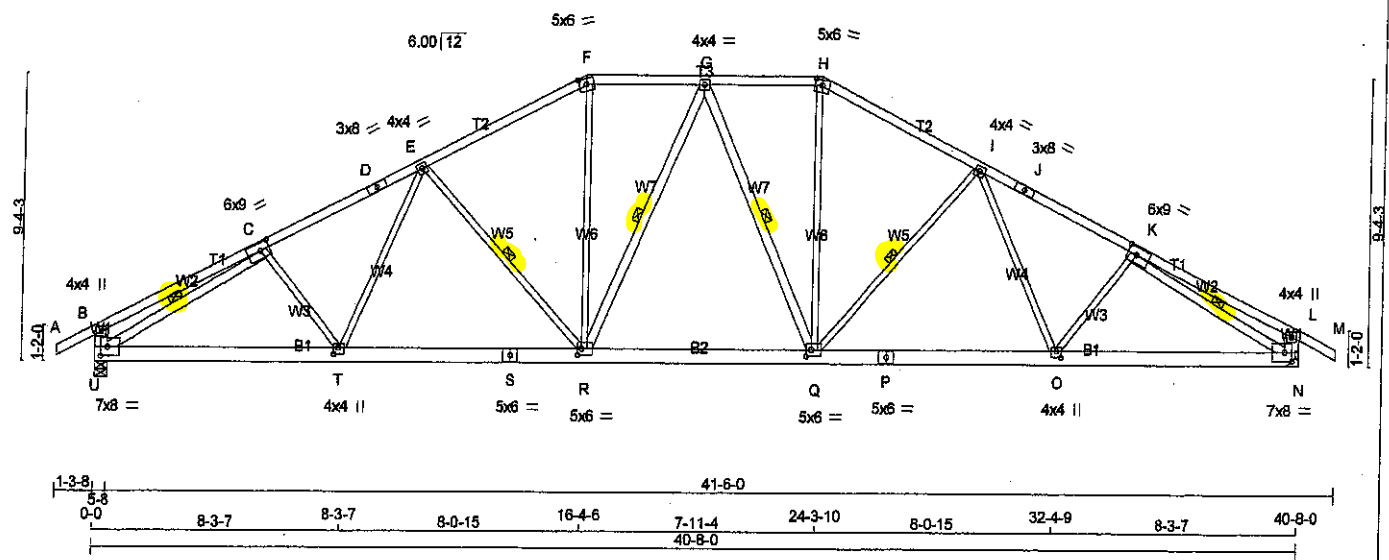
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T1         | 42       | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington Version 8.210 S May 18 2018 MITek Industries, Inc. Mon Aug 20 09:58:41 2018 Page 1

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1-3-8-0 5-7-2 5-7-2 5-4-10 10-11-12 5-4-10 16-4-6 3-11-10 20-4-0 3-11-10 24-3-10 5-4-10 29-8-4 5-4-10 35-0-14 5-7-2 40-8-0 1-11-8

Scale = 1:71.8



TOTAL WEIGHT = 42 X 209 = 8765 lb

| LUMBER            |      |        |        |
|-------------------|------|--------|--------|
| N. L. G. A. RULES |      |        |        |
| CHORDS            | SIZE | LUMBER | DESCR. |
| A - D             | 2x4  | DRY    | No.2   |
| D - F             | 2x4  | DRY    | No.2   |
| F - H             | 2x4  | DRY    | No.2   |
| H - J             | 2x4  | DRY    | No.2   |
| J - M             | 2x4  | DRY    | No.2   |
| U - B             | 2x6  | DRY    | No.2   |
| N - L             | 2x6  | DRY    | No.2   |
| U - S             | 2x6  | DRY    | No.2   |
| S - P             | 2x6  | DRY    | No.2   |
| P - N             | 2x6  | DRY    | No.2   |

| ALL WEBS |     |     |            |
|----------|-----|-----|------------|
| EXCEPT   |     |     |            |
| R - G    | 2x4 | DRY | No.2       |
| G - Q    | 2x4 | DRY | No.2       |
| U - C    | 2x4 | DRY | 2100F 1.8E |
| K - N    | 2x4 | DRY | 2100F 1.8E |

DRY: SEASONED LUMBER.

PLATES (table is in inches)

| JT TYPE  | PLATES | W   | LEN | Y    | X    |
|----------|--------|-----|-----|------|------|
| B TMV+p  | MT20   | 4.0 | 4.0 |      |      |
| C TMVW-t | MT20   | 6.0 | 9.0 | 3.00 | 3.75 |
| D TS-t   | MT20   | 3.0 | 8.0 |      |      |
| E G-t    |        |     |     |      |      |
| F TMVW-t | MT20   | 4.0 | 4.0 |      |      |
| G TTW-m  | MT20   | 5.0 | 6.0 | 2.25 | 3.00 |
| H TTW-m  | MT20   | 5.0 | 6.0 | 2.25 | 3.00 |
| J TS-t   | MT20   | 3.0 | 8.0 |      |      |
| K TMVW-t | MT20   | 6.0 | 9.0 | 3.00 | 3.75 |
| L TMV+p  | MT20   | 4.0 | 4.0 |      |      |
| N BMVW-t | MT20   | 7.0 | 8.0 | 3.50 | 3.00 |
| O BMVW-t | MT20   | 4.0 | 4.0 | 2.50 | 1.75 |
| P BS-t   | MT20   | 5.0 | 8.0 |      |      |
| Q BMVW-t | MT20   | 5.0 | 8.0 | 2.50 | 2.00 |
| R BMVW-t | MT20   | 5.0 | 8.0 | 2.50 | 1.50 |
| S BS-t   | MT20   | 5.0 | 8.0 |      |      |
| T BMVW-t | MT20   | 4.0 | 4.0 | 2.50 | 1.75 |
| U BMVW-t | MT20   | 7.0 | 8.0 | 3.50 | 3.00 |

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

| BEARINGS |                |                  |            |
|----------|----------------|------------------|------------|
|          | FACTORED       | MAXIMUM FACTORED | INPUT      |
|          | GROSS REACTION | GROSS REACTION   | BRG        |
| JT       | VERT           | HORZ             | UPLIFT     |
| U        | 3595           | 0                | 5-8        |
| N        | 3595           | 0                | MECHANICAL |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT N.

UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX/MIN  | COMPONENT REACTIONS                |
|----|-----------|----------|------------------------------------|
|    |           |          | SNOW LIVE PERM.LIVE WIND DEAD SOIL |
| U  | 2630      | 1658 / 0 | 427 / 0 0 / 0 0 / 0 545 / 0 0 / 0  |
| N  | 2630      | 1658 / 0 | 427 / 0 0 / 0 0 / 0 545 / 0 0 / 0  |

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.43 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 E-R, G-R, G-Q, I-Q, C-U, K-N.

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. CS1 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |          |
| FR-TO  |                           | FROM TO                   |               | FR-TO |                           |               |          |
| A-B    | 0 / 39                    | -129.7 -129.7             | 0.17 (1)      | 10.00 | C-T                       | -95 / 144     | 0.03 (3) |
| B-C    | 0 / 28                    | -129.7 -129.7             | 0.47 (1)      | 10.00 | T-E                       | 0 / 488       | 0.11 (2) |
| C-D    | -5144 / 0                 | -129.7 -129.7             | 0.88 (1)      | 2.43  | E-R                       | -1025 / 0     | 0.48 (1) |
| D-E    | -5144 / 0                 | -129.7 -129.7             | 0.88 (1)      | 2.43  | R-F                       | 0 / 1378      | 0.31 (1) |
| E-F    | -4215 / 0                 | -129.7 -129.7             | 0.78 (1)      | 2.78  | F-G                       | -332 / 0      | 0.16 (1) |
| F-G    | -3758 / 0                 | -129.7 -129.7             | 0.40 (1)      | 3.31  | G-Q                       | -332 / 0      | 0.16 (1) |
| G-H    | -3758 / 0                 | -129.7 -129.7             | 0.78 (1)      | 2.78  | Q-I                       | -1025 / 0     | 0.48 (1) |
| H-I    | -4215 / 0                 | -129.7 -129.7             | 0.88 (1)      | 2.43  | I-O                       | 0 / 488       | 0.11 (2) |
| I-J    | -5144 / 0                 | -129.7 -129.7             | 0.88 (1)      | 2.43  | O-K                       | -95 / 144     | 0.03 (3) |
| J-K    | -5144 / 0                 | -129.7 -129.7             | 0.88 (1)      | 2.43  | K-N                       | -5537 / 0     | 0.67 (1) |
| K-L    | 0 / 28                    | -129.7 -129.7             | 0.47 (1)      | 10.00 | U-C                       | -5537 / 0     | 0.67 (1) |
| L-M    | 0 / 39                    | -129.7 -129.7             | 0.17 (1)      | 10.00 |                           |               |          |
| U-B    | -488 / 0                  | 0.0 0.0                   | 0.03 (1)      | 7.81  |                           |               |          |
| N-L    | -488 / 0                  | 0.0 0.0                   | 0.03 (1)      | 7.81  |                           |               |          |
| U-T    | 0 / 4881                  | -38.5 -38.5               | 0.72 (1)      | 10.00 |                           |               |          |
| T-S    | 0 / 4426                  | -38.5 -38.5               | 0.65 (1)      | 10.00 |                           |               |          |
| S-R    | 0 / 4426                  | -38.5 -38.5               | 0.65 (1)      | 10.00 |                           |               |          |
| R-Q    | 0 / 3887                  | -38.5 -38.5               | 0.59 (1)      | 10.00 |                           |               |          |
| Q-P    | 0 / 4426                  | -38.5 -38.5               | 0.65 (1)      | 10.00 |                           |               |          |
| P-O    | 0 / 4426                  | -38.5 -38.5               | 0.65 (1)      | 10.00 |                           |               |          |
| O-N    | 0 / 4881                  | -38.5 -38.5               | 0.72 (1)      | 10.00 |                           |               |          |

DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 38.2 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. G/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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 086-08, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.36")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.26")  
ALLOWABLE DEFL.(TL) = L/360 (1.36")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.42")

CS1: TC=0.88/1.00 (I-K-1), BC=0.72/1.00 (N-O-1), WB=0.67/1.00 (C-U-1), SS=0.30/1.00 (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 = 1.00

AUTOSOLVE HEELS OFF

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

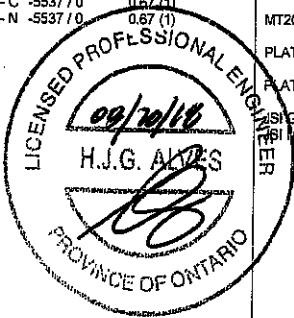
NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR    | SECTION   |
|-------|-----------|----------|-----------|
|       | (PSI)     | (PLI)    | (PLI)     |
|       | MAX MIN   | MAX MIN  | MAX MIN   |
| MT20  | 618 354   | 1667 788 | 1987 1856 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SLIP GRIP = 0.88 (R) (INPUT = 0.90)  
SLIP METAL = 0.91 (C) (INPUT = 1.00)

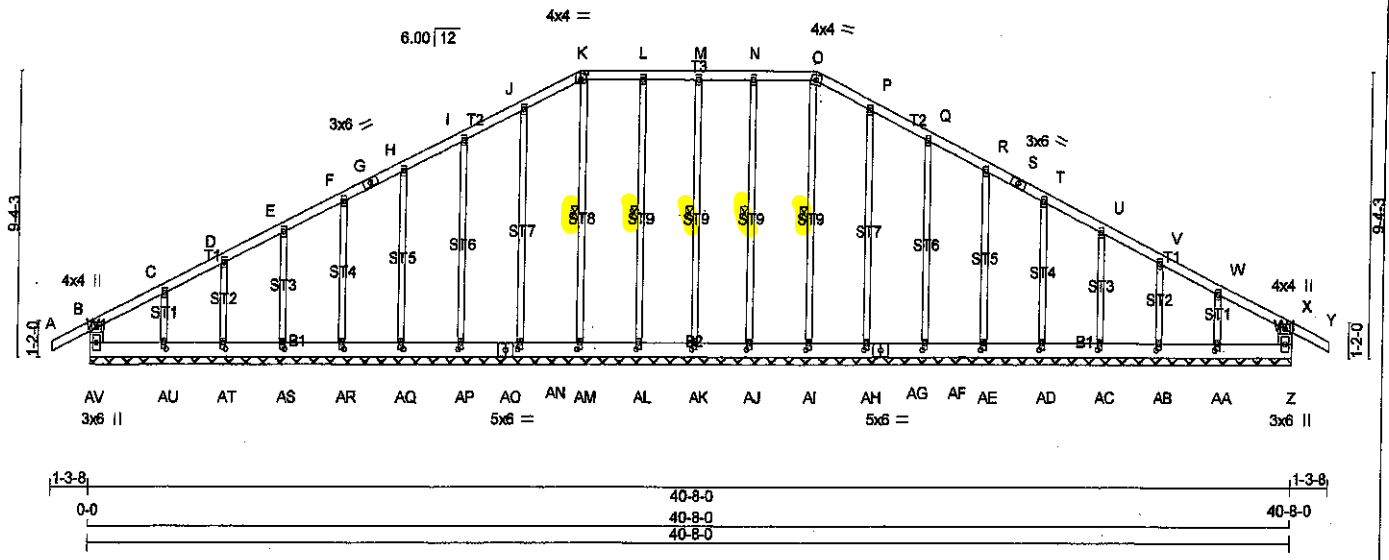


DWG NO. TAM 11805174  
STRUCTURAL  
COMPONENT ONLY



|                                                              |                         |                      |                 |                          |          |
|--------------------------------------------------------------|-------------------------|----------------------|-----------------|--------------------------|----------|
| JOB NAME<br><b>297078</b><br>Tamarack Roof Truss, Burlington | TRUSS NAME<br><b>G1</b> | QUANTITY<br><b>8</b> | PLY<br><b>1</b> | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
|--------------------------------------------------------------|-------------------------|----------------------|-----------------|--------------------------|----------|

Version 8.210 S May 18 2018 MITek Industries, Inc. Mon Aug 20 09:46:49 2018 Page 1  
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40-8-0 41-11-8  
Scale = 1:72.2



| LUMBER                           |      |        |        |     |
|----------------------------------|------|--------|--------|-----|
| N. L. G. A. RULES                |      |        |        |     |
| CHORDS                           | SIZE | LUMBER | DESCR. |     |
| AV - B                           | 2x6  | DRY    | No.2   | SPF |
| A - G                            | 2x4  | DRY    | No.2   | SPF |
| G - K                            | 2x4  | DRY    | No.2   | SPF |
| K - O                            | 2x4  | DRY    | No.2   | SPF |
| O - S                            | 2x4  | DRY    | No.2   | SPF |
| S - Y                            | 2x4  | DRY    | No.2   | SPF |
| Z - X                            | 2x6  | DRY    | No.2   | SPF |
| AV - AO                          | 2x6  | DRY    | No.2   | SPF |
| AO - AG                          | 2x6  | DRY    | No.2   | SPF |
| AG - Z                           | 2x6  | DRY    | No.2   | SPF |
| ALL WEBS                         | 2x3  | DRY    | No.2   | SPF |
| ALL GABLE WEBS                   | 2x3  | DRY    | No.2   | SPF |
| DRY: SEASONED LUMBER.            |      |        |        |     |
| GABLE STUDS SPACED AT 2'-0" O.C. |      |        |        |     |

| PLATES (table is in inches)                                                |           |        |     |               |
|----------------------------------------------------------------------------|-----------|--------|-----|---------------|
| JT                                                                         | TYPE      | PLATES | W   | LEN Y X       |
| B                                                                          | TMV+p     | MT20   | 4.0 | 4.0           |
| C, D, E, F, H, I, J, L, M, N, P, Q, R, T, U, V, W                          | TMV+w     | MT20   | 2.0 | 4.0           |
| G                                                                          | TS-t      | MT20   | 3.0 | 6.0           |
| K                                                                          | TTW-I     | MT20   | 4.0 | 4.0 2.50 2.00 |
| O                                                                          | TTW-m     | MT20   | 4.0 | 4.0           |
| S                                                                          | TS-t      | MT20   | 3.0 | 6.0           |
| X                                                                          | TMV+p     | MT20   | 4.0 | 4.0           |
| Z                                                                          | BMV1+p    | MT20   | 3.0 | 6.0           |
| AA, AB, AC, AD, AE, AF, AH, AI, AJ, AK, AL, AM, AN, AP, AQ, AR, AS, AT, AU | AA BMV1+w | MT20   | 2.0 | 4.0 2.50 1.00 |
| AG BS-t                                                                    | MT20      | 5.0    | 6.0 |               |
| AO BS-t                                                                    | MT20      | 5.0    | 6.0 |               |
| AV BMV1+p                                                                  | MT20      | 3.0    | 6.0 |               |

**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.  
1 LATERAL BRACE(S) AT 1/2 LENGTH OF O-AI, N-AJ, M-AK, L-AL, K-AM.  
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  |                           | FROM TO                   |                        | FR-TO |                           |                        |  |
| AV-B   | -367 / 0                  | 0.0 0.0 0.02 (1)          | 7.81                   | AI-O  | -253 / 0                  | 0.14 (1)               |  |
| A-B    | 0 / 39                    | -129.7 -129.7 0.17 (1)    | 10.00                  | AJ-N  | -259 / 0                  | 0.14 (1)               |  |
| B-C    | -66 / 0                   | -129.7 -129.7 0.09 (1)    | 6.25                   | AK-M  | -235 / 0                  | 0.13 (1)               |  |
| C-D    | -54 / 0                   | -129.7 -129.7 0.07 (1)    | 6.25                   | AL-L  | -259 / 0                  | 0.14 (1)               |  |
| D-E    | -45 / 0                   | -129.7 -129.7 0.06 (1)    | 6.25                   | AM-K  | -253 / 0                  | 0.14 (1)               |  |
| E-F    | -41 / 0                   | -129.7 -129.7 0.06 (1)    | 6.25                   | AN-J  | -253 / 0                  | 0.34 (1)               |  |
| F-G    | -37 / 0                   | -129.7 -129.7 0.06 (1)    | 6.25                   | AP-I  | -259 / 0                  | 0.24 (1)               |  |
| G-H    | -37 / 0                   | -129.7 -129.7 0.06 (1)    | 6.25                   | AQ-H  | -258 / 0                  | 0.16 (1)               |  |
| H-I    | -34 / 0                   | -129.7 -129.7 0.06 (1)    | 6.25                   | AR-F  | -257 / 0                  | 0.11 (1)               |  |
| I-J    | -32 / 0                   | -129.7 -129.7 0.06 (1)    | 6.25                   | AS-E  | -259 / 0                  | 0.07 (1)               |  |
| J-K    | -28 / 0                   | -129.7 -129.7 0.08 (1)    | 6.25                   | AT-D  | -250 / 0                  | 0.05 (1)               |  |
| K-L    | -23 / 0                   | -129.7 -129.7 0.06 (1)    | 6.25                   | AU-C  | -279 / 0                  | 0.04 (1)               |  |
| L-M    | -23 / 0                   | -129.7 -129.7 0.06 (1)    | 6.25                   | AH-P  | -253 / 0                  | 0.34 (1)               |  |
| M-N    | -23 / 0                   | -129.7 -129.7 0.08 (1)    | 6.25                   | AF-Q  | -259 / 0                  | 0.24 (1)               |  |
| N-O    | -23 / 0                   | -129.7 -129.7 0.06 (1)    | 6.25                   | AE-R  | -258 / 0                  | 0.16 (1)               |  |
| O-P    | -28 / 0                   | -129.7 -129.7 0.08 (1)    | 6.25                   | AD-T  | -257 / 0                  | 0.11 (1)               |  |
| P-Q    | -32 / 0                   | -129.7 -129.7 0.06 (1)    | 6.25                   | AC-U  | -259 / 0                  | 0.07 (1)               |  |
| Q-R    | -34 / 0                   | -129.7 -129.7 0.06 (1)    | 6.25                   | AB-V  | -250 / 0                  | 0.05 (1)               |  |
| R-S    | -37 / 0                   | -129.7 -129.7 0.06 (1)    | 6.25                   | AA-W  | -279 / 0                  | 0.04 (1)               |  |
| S-T    | -37 / 0                   | -129.7 -129.7 0.06 (1)    | 6.25                   |       |                           |                        |  |
| T-U    | -41 / 0                   | -129.7 -129.7 0.06 (1)    | 6.25                   |       |                           |                        |  |
| U-V    | -45 / 0                   | -129.7 -129.7 0.06 (1)    | 6.25                   |       |                           |                        |  |
| V-W    | -54 / 0                   | -129.7 -129.7 0.07 (1)    | 6.25                   |       |                           |                        |  |
| W-X    | -66 / 0                   | -129.7 -129.7 0.09 (1)    | 6.25                   |       |                           |                        |  |
| X-Y    | 0 / 39                    | -129.7 -129.7 0.17 (1)    | 10.00                  |       |                           |                        |  |
| Z-X    | -367 / 0                  | 0.0 0.0 0.02 (1)          | 7.81                   |       |                           |                        |  |
| AV-AU  | 0 / 56                    | -38.5 -38.5 0.02 (1)      | 10.00                  |       |                           |                        |  |
| AU-AT  | 0 / 46                    | -38.5 -38.5 0.02 (2)      | 10.00                  |       |                           |                        |  |
| AT-AS  | 0 / 41                    | -38.5 -38.5 0.01 (2)      | 10.00                  |       |                           |                        |  |
| AS-AR  | 0 / 37                    | -38.5 -38.5 0.01 (2)      | 10.00                  |       |                           |                        |  |
| AR-AQ  | 0 / 33                    | -38.5 -38.5 0.01 (2)      | 10.00                  |       |                           |                        |  |
| AQ-AP  | 0 / 31                    | -38.5 -38.5 0.01 (2)      | 10.00                  |       |                           |                        |  |
| AP-AO  | 0 / 28                    | -38.5 -38.5 0.01 (2)      | 10.00                  |       |                           |                        |  |
| AO-AN  | 0 / 28                    | -38.5 -38.5 0.01 (2)      | 10.00                  |       |                           |                        |  |
| AN-AM  | 0 / 26                    | -38.5 -38.5 0.01 (2)      | 10.00                  |       |                           |                        |  |
| AM-AL  | 0 / 23                    | -38.5 -38.5 0.01 (2)      | 10.00                  |       |                           |                        |  |
| AL-AK  | 0 / 23                    | -38.5 -38.5 0.01 (2)      | 10.00                  |       |                           |                        |  |
| AK-AJ  | 0 / 23                    | -38.5 -38.5 0.01 (2)      | 10.00                  |       |                           |                        |  |
| AJ-AI  | 0 / 23                    | -38.5 -38.5 0.01 (2)      | 10.00                  |       |                           |                        |  |
| AI-AH  | 0 / 26                    | -38.5 -38.5 0.01 (2)      | 10.00                  |       |                           |                        |  |
| AH-AG  | 0 / 28                    | -38.5 -38.5 0.01 (2)      | 10.00                  |       |                           |                        |  |
| AG-AF  | 0 / 28                    | -38.5 -38.5 0.01 (2)      | 10.00                  |       |                           |                        |  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 38.2 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 PSF

**SPACING = 24.0 IN. O.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, NBC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OSC 2012, OBC 2018  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

**DESIGN ASSUMPTIONS**  
- OVERHANG NOT TO BE ALTERED OR CUT OFF.  
(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.17/1.00 (X-Y:1), BC=0.02/1.00 (Z-AA:1)  
WB=0.34/1.00 (J-AN:1), SS=0.12/1.00 (X-Y: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 = 1.00

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) (PL) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.60 (C) (INPUT = 0.90)  
JSI METAL= 0.12 (W) (INPUT = 1.00)

DWG NO. TAM 71005165  
STRUCTURAL  
COMPONENT ONLY 1/2

CONTINUED ON PAGE 2



|          |            |          |     |             |          |
|----------|------------|----------|-----|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 297078   | G1         | 8        | 1   | TRUSS DESC. |          |

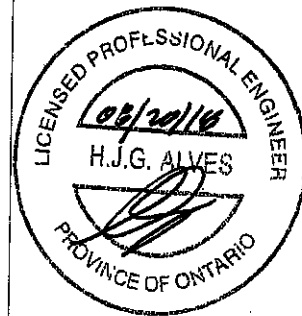
Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MITek Industries, Inc. Mon Aug 20 08:46:49 2018 Page 2  
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**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |              | WEBS               |       |                           |               |
|--------|---------------------------|---------------------------|--------------|--------------------|-------|---------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |
| FR-TO  |                           | FROM TO                   |              |                    | FR-TO |                           |               |
| AF-AE  | 0 / 31                    | -38.5 -38.5               | 0.01 (2)     | 10.00              |       |                           |               |
| AE-AD  | 0 / 33                    | -38.5 -38.5               | 0.01 (2)     | 10.00              |       |                           |               |
| AD-AC  | 0 / 37                    | -38.5 -38.5               | 0.01 (2)     | 10.00              |       |                           |               |
| AC-AB  | 0 / 41                    | -38.5 -38.5               | 0.01 (2)     | 10.00              |       |                           |               |
| AB-AA  | 0 / 46                    | -38.5 -38.5               | 0.02 (2)     | 10.00              |       |                           |               |
| AA-Z   | 0 / 56                    | -38.5 -38.5               | 0.02 (1)     | 10.00              |       |                           |               |



DWG NO. TAM **71805165**  
STRUCTURAL  
COMPONENT ONLY **2/2**





| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T11        | 2        | 4   | TRUSS DESC. |          |

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ID: P5XmF1xy53l8wCH47R2x3fzNvgf-AAKz6ArTWx1fCggvBC6ls0E3REdbaqHqWM LLFym?kD

**HANGERS NOTES**

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 3541.8 lbs FACTORED DOWN AT 11-15, 3541.7 lbs FACTORED DOWN AT 2-11-15, 3544.8 lbs FACTORED DOWN AT 4-11-15, AND 3541.7 lbs FACTORED DOWN AT 6-11-15, AND 3541.7 lbs FACTORED DOWN AT 8-11-15 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



DWG NO. TAM 11805175  
STRUCTURAL  
COMPONENT ONLY 7/2

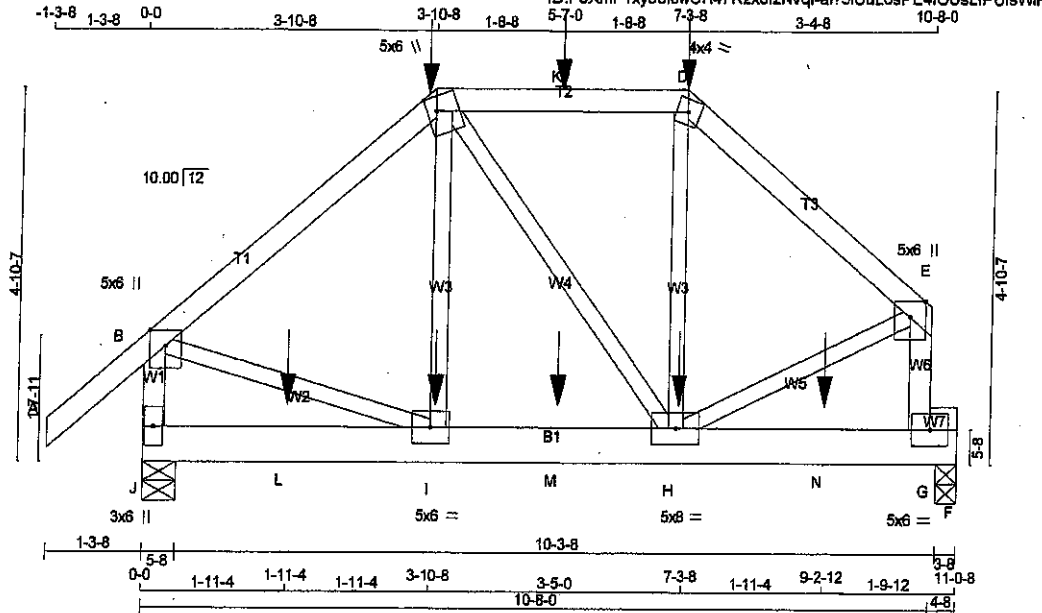


| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T12        | 2        | 1   | TRUSS DESC. |          |

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ID:P5XmF1xy5318wCH47R2x3fzNvgf-a1?5ICuLosPE41OUslPufWIRlnD8GCKC?xaym?ka



Scale = 1:28.8

TOTAL WEIGHT = 2 X 57 = 114 lb

| LUMBER                |        |      |        |
|-----------------------|--------|------|--------|
| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER |
| A - C                 | 2x4    | DRY  | No.2   |
| C - D                 | 2x4    | DRY  | No.2   |
| D - E                 | 2x4    | DRY  | No.2   |
| E - B                 | 2x4    | DRY  | No.2   |
| G - E                 | 2x4    | DRY  | No.2   |
| J - F                 | 2x6    | DRY  | No.2   |
| G - F                 | 2x4    | DRY  | No.2   |
| ALL WEBS 2x3 DRY No.2 |        |      |        |
| EXCEPT                |        |      |        |
| SPF                   |        |      |        |
| 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                           | BMVW-t | MT20 | 5.0 | 6.0           |
| H                           | BMVW-t | MT20 | 5.0 | 6.0           |
| I                           | BMVW-t | MT20 | 5.0 | 6.0           |
| J                           | 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) 292.9 lbs FACTORED DOWN AT 3-10-8, AND 121.6 lbs FACTORED DOWN AT 5-7-0, AND 292.9 lbs FACTORED DOWN AT 7-3-8 ON TOP CHORD, AND 38.3 lbs FACTORED DOWN AT 1-11-4, 45.9 lbs FACTORED DOWN AT 3-11-4, 45.9 lbs FACTORED DOWN AT 5-7-0, AND 45.9 lbs FACTORED DOWN AT 7-2-12, AND 38.3 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 |       | MAXIMUM FACTORED |       | INPUT |       | REQD |       |
|----------|------|----------|-------|------------------|-------|-------|-------|------|-------|
| JT       | VERT | GROSS    | REACT | GROSS            | REACT | BRG   | IN-SX | BRG  | IN-SX |
| J        | 1532 | 0        | 1532  | 0                | 0     | 5-8   | 5-8   | 5-8  | 5-8   |
| F        | 1315 | 0        | 1315  | 0                | 0     | 3-8   | 3-8   | 3-8  | 3-8   |

| UNFACTORED REACTIONS |          | 1ST CASE |         | MAX/MIN COMPONENT REACTIONS |       | PERM/LIVE |       | WIND      |       | DEAD    |       | SOIL      |       |
|----------------------|----------|----------|---------|-----------------------------|-------|-----------|-------|-----------|-------|---------|-------|-----------|-------|
| JT                   | COMBINED | SNOW     | LIVE    | PERM/LIVE                   | WIND  | DEAD      | SOIL  | PERM/LIVE | WIND  | DEAD    | SOIL  | PERM/LIVE | WIND  |
| J                    | 1114     | 722 / 0  | 165 / 0 | 0 / 0                       | 0 / 0 | 226 / 0   | 0 / 0 | 0 / 0     | 0 / 0 | 226 / 0 | 0 / 0 | 0 / 0     | 0 / 0 |
| F                    | 967      | 593 / 0  | 186 / 0 | 0 / 0                       | 0 / 0 | 207 / 0   | 0 / 0 | 0 / 0     | 0 / 0 | 207 / 0 | 0 / 0 | 0 / 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 = 5.33 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**  
TOTAL LOAD CASES: (4)

| CHORDS        |             | MEMB.         |             | FR-TO         |             | FR-TO         |             | FR-TO         |             | FR-TO         |             | FR-TO         |             | FR-TO         |             |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| MAX. FACTORED | FACTORED    | MAX. FACTORED | FACTORED    | MAX. FACTORED | FACTORED    | MAX. FACTORED | FACTORED    | MAX. FACTORED | FACTORED    | MAX. FACTORED | FACTORED    | MAX. FACTORED | FACTORED    | MAX. FACTORED | FACTORED    |
| FORCE (LBS)   | FORCE (LBS) | FORCE (LBS)   | FORCE (LBS) | FORCE (LBS)   | FORCE (LBS) | FORCE (LBS)   | FORCE (LBS) | FORCE (LBS)   | FORCE (LBS) | FORCE (LBS)   | FORCE (LBS) | FORCE (LBS)   | FORCE (LBS) | FORCE (LBS)   | FORCE (LBS) |
| A-B           | 0 / 57      | -129.7        | -129.7      | 0.20 (1)      | 10.00       | I-C           | -106 / 162  | 0.04 (3)      | 0.04 (3)    | J-L           | 0 / 0       | -38.5         | -38.5       | 0.08 (2)      | 10.00       |
| B-C           | -1158 / 0   | -129.7        | -129.7      | 0.41 (1)      | 5.33        | C-H           | 0 / 30      | 0.01 (1)      | 0.01 (1)    | L-I           | 0 / 0       | -38.5         | -38.5       | 0.22 (1)      | 10.00       |
| C-K           | -902 / 0    | -129.7        | -129.7      | 0.48 (1)      | 5.73        | H-D           | -35 / 180   | 0.05 (3)      | 0.05 (3)    | I-M           | 0 / 885     | -38.5         | -38.5       | 0.22 (1)      | 10.00       |
| K-D           | -902 / 0    | -129.7        | -129.7      | 0.48 (1)      | 5.73        | B-I           | 0 / 928     | 0.23 (1)      | 0.23 (1)    | M-H           | 0 / 885     | -38.5         | -38.5       | 0.22 (1)      | 10.00       |
| D-E           | -1179 / 0   | -129.7        | -129.7      | 0.31 (1)      | 5.46        | H-E           | 0 / 998     | 0.25 (1)      | 0.25 (1)    | N-H           | 0 / 0       | -38.5         | -38.5       | 0.36 (1)      | 10.00       |
| J-B           | -1447 / 0   | 0.0           | 0.0         | 0.17 (1)      | 6.76        |               |             |               |             | G-F           | 0 / 0       | -38.5         | -38.5       | 0.22 (1)      | 10.00       |
| G-E           | -1403 / 0   | 0.0           | 0.0         | 0.17 (1)      | 6.84        |               |             |               |             |               |             |               |             |               |             |

| SPECIFIED CONCENTRATED LOADS (LBS) |        | LOC. |      | MAX. |      | MAX+  |      | FACE |       | DIR. |       | TYPE |       | TOTAL |       |
|------------------------------------|--------|------|------|------|------|-------|------|------|-------|------|-------|------|-------|-------|-------|
| JT                                 | LOC.   | LOC. | LOC. | MAX. | MAX+ | FACE  | DIR. | TYPE | TOTAL | TYPE | TOTAL | TYPE | TOTAL | TYPE  | TOTAL |
| C                                  | 3-10-8 | -202 | -202 | -    | -    | FRONT | VERT | MAX  | 1000  | MAX  | 1000  | MAX  | 1000  | MAX   | 1000  |
| D                                  | 7-3-8  | -202 | -202 | -    | -    | FRONT | VERT | MAX  | 1000  | MAX  | 1000  | MAX  | 1000  | MAX   | 1000  |
| H                                  | 7-2-12 | -33  | -33  | -    | -    | FRONT | VERT | MAX  | 1000  | MAX  | 1000  | MAX  | 1000  | MAX   | 1000  |
| I                                  | 3-11-4 | -33  | -33  | -    | -    | FRONT | VERT | MAX  | 1000  | MAX  | 1000  | MAX  | 1000  | MAX   | 1000  |
| K                                  | 5-7-0  | -83  | -83  | -    | -    | FRONT | VERT | MAX  | 1000  | MAX  | 1000  | MAX  | 1000  | MAX   | 1000  |
| L                                  | 1-11-4 | -22  | -22  | -    | -    | FRONT | VERT | MAX  | 1000  | MAX  | 1000  | MAX  | 1000  | MAX   | 1000  |
| M                                  | 5-7-0  | -33  | -33  | -    | -    | FRONT | VERT | MAX  | 1000  | MAX  | 1000  | MAX  | 1000  | MAX   | 1000  |
| N                                  | 9-2-12 | -22  | -22  | -    | -    | FRONT | VERT | MAX  | 1000  | MAX  | 1000  | MAX  | 1000  | MAX   | 1000  |

**DESIGN CRITERIA**  
SPECIFIED LOADS:  
TOP CH. LL = 38.2 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2012, CBC 2018  
- CSA 086-08, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 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 (0.04")

CSI: TC=0.48/1.00 (C-D-1), BC=0.36/1.00 (G-H-1), WB=0.25/1.00 (E-H-1), SSI=0.53/1.00 (F-G-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 = 1.00

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

| NAIL VALUES |       | PLATE GRIP(DRY) SHEAR |       | SECTION |       |
|-------------|-------|-----------------------|-------|---------|-------|
| (PSI)       | (PLI) | (PSI)                 | (PLI) | (PSI)   | (PLI) |
| MAX         | MIN   | MAX                   | MIN   | MAX     | MIN   |
| 618         | 354   | 1667                  | 785   | 1987    | 1656  |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.82 (D) (INPUT = 0.90)  
JSI METAL= 0.48 (B) (INPUT = 1.00)

DWG NO. TAM 11805776  
STRUCTURAL  
COMPONENT ONLY

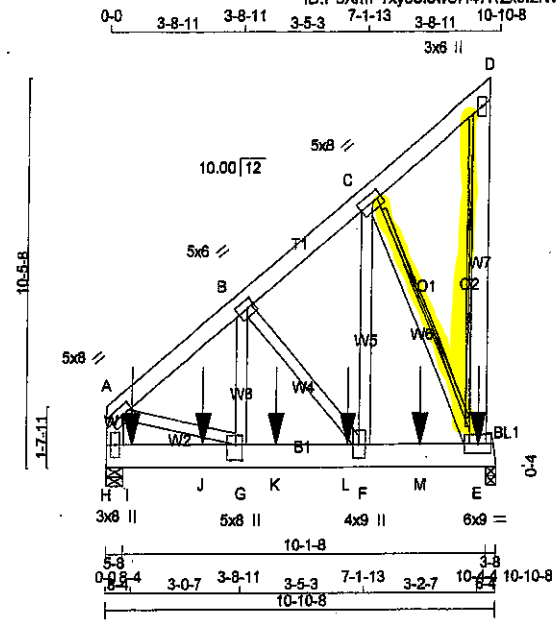


| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T13F       | 2        | 4   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MTEK Industries, Inc. Mon Aug 20 09:47:35 2018 Page 1

ID: P5XmF1xy53l8wCH47R2x3fzNvqf-TWfCaZxs4vgYvIF5BkLeV1Hq25Zj?3s7yAC5Lym?k6



Scale = 1:59.4

TOTAL WEIGHT = 8 X 98 = 786 lb

| LUMBER | N. L. G. A. RULES | CHORDS | SIZE  | LUMBER | DESCR. |
|--------|-------------------|--------|-------|--------|--------|
| A - D  | 2x8               | DRY    | No. 2 | SPF    |        |
| E - D  | 2x8               | DRY    | No. 2 | SPF    |        |
| H - A  | 2x8               | DRY    | No. 2 | SPF    |        |
| H - E  | 2x8               | DRY    | No. 2 | SPF    |        |

| BEARING BLOCKS  | BL1 | 2x4 | DRY   | No. 2 | SPF |
|-----------------|-----|-----|-------|-------|-----|
| ALL WEBS EXCEPT | 2x4 | DRY | No. 2 | SPF   |     |

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 4 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           |
| D - E 2                                  | 12                   | TOP           |
| H - A 3                                  | 5                    | SIDE (112.3)  |
| BOTTOM CHORDS : (0.122'X3') SPIRAL NAILS |                      |               |
| H - E 3                                  | 4                    | SIDE (1237.1) |
| WEBS : (0.122'X3') SPIRAL NAILS          |                      |               |
| 2x4 1                                    | 6                    |               |

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

IN ADDITION, PRE-DRILL ONE 0.56" DIAM. HOLE IN EACH CHORD PANEL AND INSTALL 0.50" DIAM. ASTM A307 BOLTS WITH WASHERS, BOTH SIDES, FOR OTHER BOLT TYPES SEE CSAO86 3.3.2.

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 |
|-----------------------------|---------|------|--------|-----|------|------|---|
| A                           | TMVW+   | MT20 | 5.0    | 8.0 | 2.50 | 3.25 |   |
| B                           | TMVW+   | MT20 | 5.0    | 8.0 | 2.50 | 2.50 |   |
| C                           | TMVW+   | MT20 | 5.0    | 8.0 | 2.50 | 3.25 |   |
| D                           | TMVW+   | MT20 | 3.0    | 6.0 |      |      |   |
| E                           | BMVWV1+ | MT20 | 6.0    | 9.0 |      |      |   |
| F                           | BMVWV+  | MT20 | 4.0    | 9.0 |      |      |   |
| G                           | BMVWV+  | MT20 | 5.0    | 8.0 | 5.00 | 2.25 |   |
| H                           | BMVW+   | MT20 | 3.0    | 8.0 |      |      |   |

HANGERS NOTES  
1)

**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                    | DOWN                            | UP        | IN-SX     |
| E        | 12533                   | 0                               | 12533     | 0         |
| H        | 10609                   | 0                               | 10609     | 0         |

| UNFACTORED REACTIONS | 1ST LCASE | MAX/MIN  | COMPONENT REACTIONS |
|----------------------|-----------|----------|---------------------|
| JT                   | COMBINED  | SNOW     | LIVE                |
| E                    | 9151      | 5824 / 0 | 1447 / 0            |
| H                    | 7745      | 4833 / 0 | 1223 / 0            |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.37 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.

2x8 DRY SPF No.2 T-BRACE AT D-E, C-E

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 | MEMB.     | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD LC1 (LC) | MAX. FACTORED UNBRACED LENGTH (FR-TO) | WEBS  | MEMB.     | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC) |
|--------|-----------|---------------------------|---------------------------|-----------------------------------|---------------------------------------|-------|-----------|---------------------------|-------------------------------|
| FR-TO  |           |                           |                           |                                   |                                       | FR-TO |           |                           |                               |
| A - B  | -8101 / 0 | -129.7                    | -129.7                    | 0.10 (1)                          | 5.37                                  | G - B | 0 / 5548  | 0.22 (1)                  |                               |
| B - C  | -4266 / 0 | -129.7                    | -129.7                    | 0.08 (1)                          | 6.25                                  | B - F | -4482 / 0 | 0.35 (1)                  |                               |
| C - D  | -34 / 0   | -129.7                    | -129.7                    | 0.04 (1)                          | 6.25                                  | F - C | 0 / 8463  | 0.38 (1)                  |                               |
| E - D  | -185 / 0  | 0.0                       | 0.0                       | 0.01 (1)                          | 7.81                                  | C - E | -8033 / 0 | 0.31 (1)                  |                               |
| H - A  | -7192 / 0 | 0.0                       | 0.0                       | 0.13 (1)                          | 7.13                                  | A - G | 0 / 6435  | 0.34 (1)                  |                               |
| H - I  | 0 / 0     | -38.5                     | -38.5                     | 0.31 (1)                          | 10.00                                 |       |           |                           |                               |
| I - J  | 0 / 0     | -38.5                     | -38.5                     | 0.31 (1)                          | 10.00                                 |       |           |                           |                               |
| J - G  | 0 / 0     | -38.5                     | -38.5                     | 0.31 (1)                          | 10.00                                 |       |           |                           |                               |
| G - K  | 0 / 6196  | -38.5                     | -38.5                     | 0.43 (1)                          | 10.00                                 |       |           |                           |                               |
| K - L  | 0 / 6196  | -38.5                     | -38.5                     | 0.43 (1)                          | 10.00                                 |       |           |                           |                               |
| L - F  | 0 / 6196  | -38.5                     | -38.5                     | 0.43 (1)                          | 10.00                                 |       |           |                           |                               |
| F - M  | 0 / 3337  | -38.5                     | -38.5                     | 0.41 (1)                          | 10.00                                 |       |           |                           |                               |
| M - E  | 0 / 3337  | -38.5                     | -38.5                     | 0.41 (1)                          | 10.00                                 |       |           |                           |                               |

| SPECIFIED CONCENTRATED LOADS (LBS) | JT     | LOC.  | LC1   | MAX- | MAX+ | FACE  | DIR. |
|------------------------------------|--------|-------|-------|------|------|-------|------|
| E                                  | 10-4-4 | -2618 | -2618 | ---  | ---  | FRONT | VERT |
| I                                  | 8-4    | -2600 | -2600 | ---  | ---  | FRONT | VERT |
| J                                  | 2-8-4  | -2595 | -2595 | ---  | ---  | FRONT | VERT |
| K                                  | 4-8-4  | -2595 | -2595 | ---  | ---  | FRONT | VERT |
| L                                  | 6-8-4  | -2595 | -2595 | ---  | ---  | FRONT | VERT |
| M                                  | 8-8-4  | -2595 | -2595 | ---  | ---  | FRONT | VERT |

**DESIGN CRITERIA**

| SPECIFIED LOADS: | TOP CH.    | LL | =    | 38.2 | PSF |
|------------------|------------|----|------|------|-----|
|                  | BOT CH.    | LL | =    | 10.5 | PSF |
|                  | CL         | =  | 7.0  | PSF  |     |
|                  | TOTAL LOAD | =  | 61.7 | PSF  |     |

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA O86-09, CSA O86-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/380 (0.35")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
ALLOWABLE DEFL.(TL) = L/380 (0.35")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.13/1.00 (A-H:1), BC=0.43/1.00 (F-G:1), WB=0.38/1.00 (C-F:1), SSI=0.56/1.00 (G-H: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 = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

| NAIL VALUES | PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-------------|-----------------|-------------|---------------|
| MT20        | 618             | 354         | 1667          |
|             | 788             | 1967        | 1656          |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JST GRIP= 0.90 (E) (INPUT = 0.90)  
JST METAL= 0.63 (H) (INPUT = 1.00)

DRWG NO. TAM 11005777  
STRUCTURAL  
COMPONENT ONLY 1/2



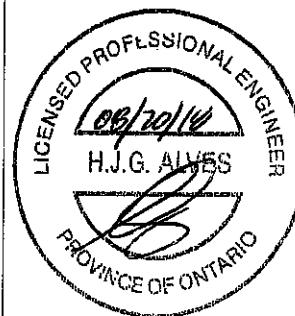
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|-----------|-------------|----------|
| 297078   | T13F       | 2        | 4   |           |             |          |

Tamarack Roof Truss, Burlington

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**HANGERS NOTES**

- 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 3562.7 lbs FACTORED DOWN AT 8-4, 3556.7 lbs FACTORED DOWN AT 2-8-4, 3556.7 lbs FACTORED DOWN AT 4-8-4, 3556.7 lbs FACTORED DOWN AT 6-8-4, AND 3556.7 lbs FACTORED DOWN AT 8-8-4, AND 3581.8 lbs FACTORED DOWN AT 10-4-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



DWG NO. TAM **11805177**  
STRUCTURAL  
COMPONENT ONLY **3/2**

DWG NO. TAM 71805178  
STRUCTURAL  
COMPONENT ONLY



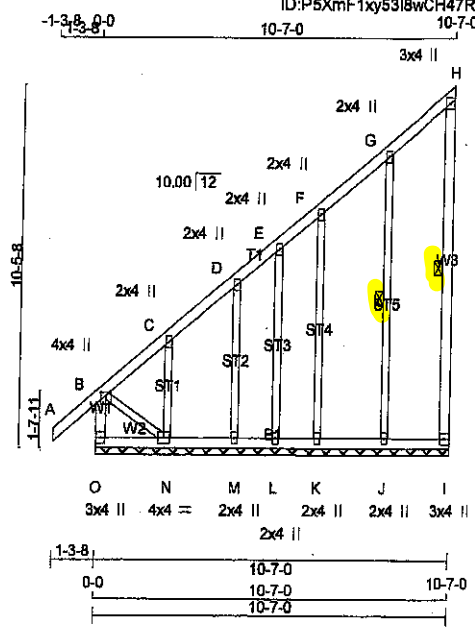
|                           |                           |                      |                 |                          |          |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|
| JOB NAME<br><b>297078</b> | TRUSS NAME<br><b>G14F</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|

Tamarack Roof Truss, Burlington

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Scale: 3/16"=1'



**LUMBER**

| N. L. G. A. RULES               | CHORDS | SIZE | LUMBER | DESCR. |
|---------------------------------|--------|------|--------|--------|
| O - B                           | 2x4    | DRY  | No.2   | SPF    |
| A - H                           | 2x4    | DRY  | No.2   | SPF    |
| I - H                           | 2x4    | DRY  | No.2   | SPF    |
| O - I                           | 2x4    | DRY  | No.2   | SPF    |
| ALL WEBS                        | 2x3    | DRY  | No.2   | SPF    |
| ALL GABLE WEBS                  | 2x3    | DRY  | No.2   | SPF    |
| DRY: SEASONED LUMBER.           |        |      |        |        |
| GABLE STUDS SPACED AT 2-0-0 OC. |        |      |        |        |

**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, D, E, F, G |         |        |     |     |      |      |
| C             | TMV+w   | MT20   | 2.0 | 4.0 |      |      |
| H             | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| I             | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| J, K, L, M    |         |        |     |     |      |      |
| J             | BMV1+w  | MT20   | 2.0 | 4.0 |      |      |
| N             | BMVW1+t | MT20   | 4.0 | 4.0 |      |      |
| O             | BMV1+p  | MT20   | 3.0 | 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF H-I, G-J.

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  |                           | FROM TO                   |                        | FR-TO |                           |                        |  |
| O-B    | -315 / 0                  | 0.0 0.0                   | 0.03 (1)               | J-G   | -299 / 0                  | 0.15 (1)               |  |
| A-B    | 0 / 57                    | -129.7 -129.7             | 0.18 (1)               | K-F   | -207 / 0                  | 0.18 (1)               |  |
| B-C    | -10 / 0                   | -129.7 -129.7             | 0.08 (1)               | L-E   | -135 / 0                  | 0.08 (1)               |  |
| C-D    | -26 / 0                   | -129.7 -129.7             | 0.08 (1)               | M-D   | -199 / 0                  | 0.08 (1)               |  |
| D-E    | -17 / 0                   | -129.7 -129.7             | 0.04 (1)               | N-C   | -299 / 0                  | 0.06 (1)               |  |
| E-F    | 0 / 0                     | -129.7 -129.7             | 0.04 (1)               | B-N   | 0 / 25                    | 0.01 (1)               |  |
| F-G    | 0 / 3                     | -129.7 -129.7             | 0.07 (1)               |       |                           |                        |  |
| G-H    | -16 / 0                   | -129.7 -129.7             | 0.07 (1)               |       |                           |                        |  |
| I-H    | -110 / 0                  | 0.0 0.0                   | 0.06 (1)               |       |                           |                        |  |
| O-N    | 0 / 0                     | -38.5 -38.5               | 0.03 (3)               |       |                           |                        |  |
| N-M    | 0 / 12                    | -38.5 -38.5               | 0.03 (3)               |       |                           |                        |  |
| M-L    | 0 / 8                     | -38.5 -38.5               | 0.02 (2)               |       |                           |                        |  |
| L-K    | 0 / 6                     | -38.5 -38.5               | 0.02 (3)               |       |                           |                        |  |
| K-J    | 0 / 3                     | -38.5 -38.5               | 0.03 (3)               |       |                           |                        |  |
| J-I    | 0 / 0                     | -38.5 -38.5               | 0.03 (3)               |       |                           |                        |  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

TOP CH. LL = 38.2 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 PSF

**SPACING = 24.0 IN. OC**

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.18/1.00 (A-B:1), BC=0.03/1.00 (M-N:3),  
WB=0.18/1.00 (F-K:1), SSI=0.11/1.00 (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 = 1.00

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

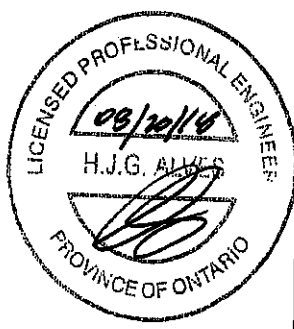
**NAIL VALUES**

| PLATE   | GRIP(DRY) | SHEAR    | SECTION   |
|---------|-----------|----------|-----------|
| (PSI)   | (PLI)     | (PLI)    |           |
| MAX MIN | MAX MIN   | MAX MIN  |           |
| MT20    | 618 354   | 1657 788 | 1987 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.24 (B) (INPUT = 0.90 )  
JSI METAL= 0.16 (G) (INPUT = 1.00 )



DRWG NO. TAM T1805166  
STRUCTURAL  
COMPONENT ONLY



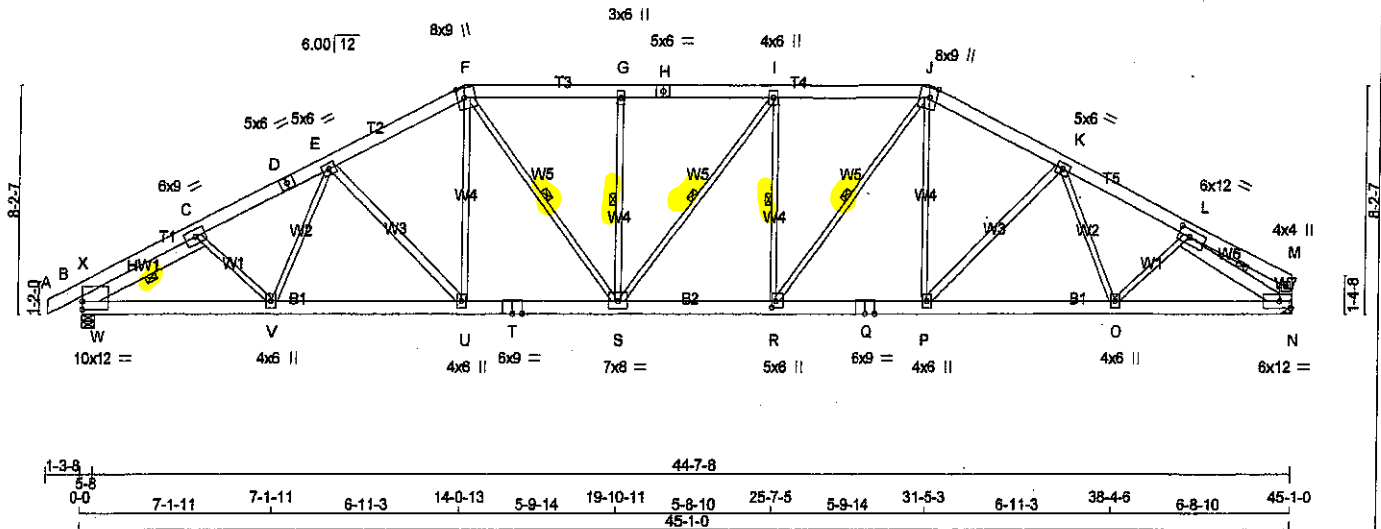
|                           |                           |                      |                 |                          |          |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|
| JOB NAME<br><b>297078</b> | TRUSS NAME<br><b>T31A</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|

Tamarack Roof Truss, Burlington

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1-3-8-0 4-3-11 4-3-11 4-10-9 9-2-4 4-10-9 14-0-13 5-9-14 19-10-11 5-8-10 25-7-5 5-9-14 31-5-3 4-10-9 38-3-12 4-10-9 41-2-5 3-10-11 45-1-0

Scale = 1:79.2





|          |            |          |     |             |          |
|----------|------------|----------|-----|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 297078   | T31A       | 2        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

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ID: P5XmF1xy53I8wCH47R2x3fzNvgf-E3keGJ1tzXvXW8JnZstDzBMVSHq7bUa1zB6dNtym7k

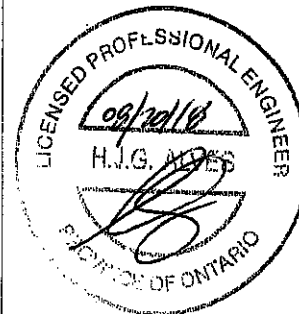
**LOADING**

TOTAL LOAD CASES: (18)

| CHORDS |                           |                           |                  | WEBS  |                           |                        |       |
|--------|---------------------------|---------------------------|------------------|-------|---------------------------|------------------------|-------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED UNBRAC LENGTH | FR-TO |
| R-Q    | -993 / 5995               | -38.5                     | -38.5 0.34 (3)   |       |                           |                        | 6.25  |
| Q-P    | -993 / 5995               | -38.5                     | -38.5 0.34 (3)   |       |                           |                        | 6.25  |
| P-O    | -1231 / 6661              | -38.5                     | -38.5 0.38 (3)   |       |                           |                        | 6.25  |
| O-N    | -1240 / 6218              | -38.5                     | -38.5 0.37 (3)   |       |                           |                        | 6.25  |

**TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING  
AS PER NBCC 4.1.6.2.(8)**

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF ( 9.6) PSF AT (40-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS,  $C_p C_g$ , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM), INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE.



DWG NO. TAM 11805179  
STRUCTURAL  
COMPONENT ONLY 2/2

1000



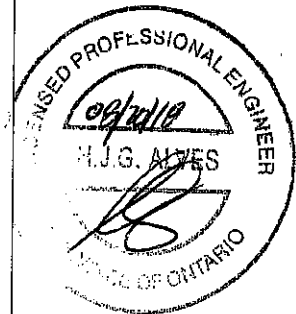
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T32        | 10       | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MiTek Industries, Inc. Mon Aug 20 09:47:47 2018 Page 2  
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TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING  
AS PER NBCC 4.1.6.2.(8)

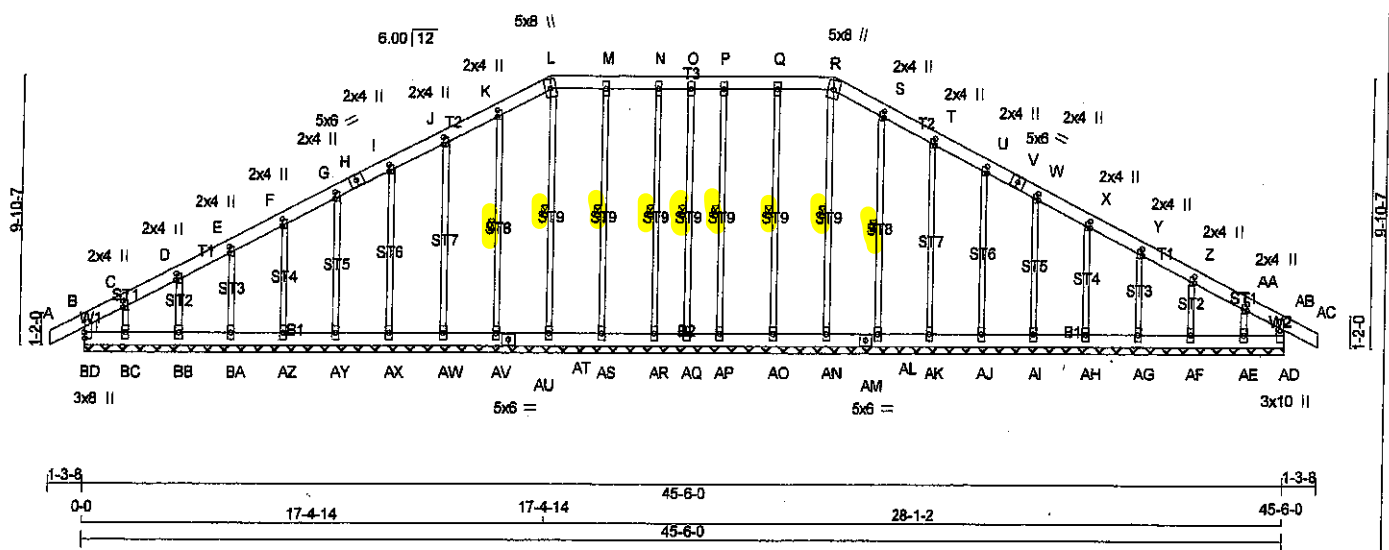
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF { 9.6} PSF AT  
{40-0-0} FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK  
COEFFICIENTS,  $C_p C_g$ , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL  
WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON  
(OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST {0-0} FT-IN-SX AWAY  
FROM EAVE.



DWG NO. TAM 1805180  
STRUCTURAL  
COMPONENT ONLY 22



|                                                                                   |                          |                      |                 |                          |          |
|-----------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|--------------------------|----------|
| JOB NAME<br><b>297078</b>                                                         | TRUSS NAME<br><b>G32</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
| Tamarack Roof Truss, Burlington                                                   |                          |                      |                 |                          |          |
| Version 6.210 S May 18 2018 MTEK Industries, Inc. Mon Aug 20 09:46:56 2018 Page 1 |                          |                      |                 |                          |          |
| ID: P5XmF1xy53I8wCH47R2x3fzNvqf-800sPES025?CNwDIJUXCZHvdIKtX4N879NEeC8ym7k        |                          |                      |                 |                          |          |
| Scale = 1:80.8                                                                    |                          |                      |                 |                          |          |



| LUMBER                         |      |        |        |
|--------------------------------|------|--------|--------|
| N. L. G. A. RULES              |      |        |        |
| CHORDS                         | SIZE | LUMBER | DESCR. |
| BD- B                          | 2x6  | DRY    | No.2   |
| A - H                          | 2x6  | DRY    | No.2   |
| H - L                          | 2x6  | DRY    | No.2   |
| L - R                          | 2x6  | DRY    | No.2   |
| R - V                          | 2x6  | DRY    | No.2   |
| V - AC                         | 2x6  | DRY    | No.2   |
| AD- AB                         | 2x4  | DRY    | No.2   |
| BD- AU                         | 2x6  | DRY    | No.2   |
| AU- AM                         | 2x6  | DRY    | No.2   |
| AM- AD                         | 2x6  | DRY    | No.2   |
| ALL WEBS                       | 2x3  | DRY    | No.2   |
| ALL GABLE WEBS                 | 2x3  | DRY    | No.2   |
| DRY: SEASONED LUMBER.          |      |        |        |
| GABLE STUDS SPACED AT 24-0 OC. |      |        |        |

| PLATES (table is in inches)                                                                |        |     |      |           |
|--------------------------------------------------------------------------------------------|--------|-----|------|-----------|
| JT TYPE                                                                                    | PLATES | W   | LEN  | Y X       |
| B, AB, AD, BD                                                                              |        |     |      |           |
| C, D, E, F, G, I, J, K, S, T, W, Z, AA                                                     |        |     |      |           |
| C TMW+w                                                                                    | MT20   | 2.0 | 4.0  | 3.00      |
| H TS-t                                                                                     | MT20   | 5.0 | 6.0  |           |
| L TTW+m                                                                                    | MT20   | 5.0 | 8.0  |           |
| M, N, O, P, Q                                                                              |        |     |      |           |
| M TMW+w                                                                                    | MT20   | 3.0 | 8.0  |           |
| R TTW+m                                                                                    | MT20   | 5.0 | 8.0  |           |
| U, X, Y                                                                                    |        |     |      |           |
| U TMW+w                                                                                    | MT20   | 2.0 | 4.0  | 2.75      |
| V TS-t                                                                                     | MT20   | 5.0 | 6.0  |           |
| AD TMBM1+p                                                                                 | MT20   | 3.0 | 10.0 |           |
| AE, AF, AG, AH, AI, AJ, AK, AL, AN, AO, AP, AQ, AR, AS, AT, AV, AW, AX, AY, AZ, BA, BB, BC |        |     |      |           |
| AE BMW1+w                                                                                  | MT20   | 3.0 | 6.0  |           |
| AM BS-t                                                                                    | MT20   | 5.0 | 6.0  |           |
| AU BS-t                                                                                    | MT20   | 5.0 | 6.0  |           |
| BD TMBM1+p                                                                                 | MT20   | 3.0 | 8.0  | 2.75 0.25 |

**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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF R-AN, Q-AO, P-AP, O-AQ, N-AR, M-AS, K-AV, S-AL, L-AT.

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) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO                 |                           | FR-TO |                           |
| BD-B                  | -368 / 0                  | AN-R  | -265 / 0                  |
| A-B                   | 0 / 40                    | AO-Q  | -269 / 0                  |
| B-C                   | -82 / 0                   | AP-P  | -203 / 0                  |
| C-D                   | -46 / 0                   | AQ-O  | -166 / 0                  |
| D-E                   | -40 / 0                   | AR-N  | -203 / 0                  |
| E-F                   | -30 / 0                   | AS-M  | -269 / 0                  |
| F-G                   | -24 / 0                   | AV-K  | -258 / 0                  |
| G-H                   | -18 / 0                   | AW-J  | -257 / 0                  |
| H-I                   | -18 / 0                   | AX-I  | -257 / 0                  |
| I-J                   | -13 / 0                   | AY-G  | -257 / 0                  |
| J-K                   | -9 / 0                    | AZ-F  | -256 / 0                  |
| K-L                   | -8 / 0                    | BA-E  | -254 / 0                  |
| L-M                   | -2 / 0                    | BB-D  | -269 / 0                  |
| M-N                   | -2 / 0                    | BC-C  | -136 / 0                  |
| N-O                   | -2 / 0                    | AL-S  | -258 / 0                  |
| O-P                   | -2 / 0                    | AK-T  | -257 / 0                  |
| P-Q                   | -2 / 0                    | AJ-U  | -257 / 0                  |
| Q-R                   | -2 / 0                    | AI-W  | -257 / 0                  |
| R-S                   | -6 / 0                    | AH-X  | -256 / 0                  |
| S-T                   | -9 / 0                    | AG-Y  | -254 / 0                  |
| T-U                   | -13 / 0                   | AF-Z  | -270 / 0                  |
| U-V                   | -18 / 0                   | AE-AA | -122 / 0                  |
| V-W                   | -18 / 0                   | AT-L  | -265 / 0                  |
| W-X                   | -24 / 0                   |       |                           |
| X-Y                   | -30 / 0                   |       |                           |
| Y-Z                   | -40 / 0                   |       |                           |
| Z-AA                  | -45 / 0                   |       |                           |
| AA-AB                 | -97 / 0                   |       |                           |
| AB-AC                 | 0 / 40                    |       |                           |
| AD-AB                 | -379 / 0                  |       |                           |
| BD-BC                 | 0 / 58                    |       |                           |
| BC-BB                 | 0 / 46                    |       |                           |
| BB-BA                 | 0 / 35                    |       |                           |
| BA-AZ                 | 0 / 27                    |       |                           |
| AZ-AY                 | 0 / 21                    |       |                           |
| AY-AX                 | 0 / 16                    |       |                           |
| AX-AW                 | 0 / 12                    |       |                           |
| AW-AV                 | 0 / 8                     |       |                           |
| AV-AU                 | 0 / 5                     |       |                           |
| AU-AT                 | 0 / 5                     |       |                           |
| AT-AS                 | 0 / 2                     |       |                           |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

TOP CH. LL = 38.2 PSF

DL = 6.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 61.7 PSF

**SPACING = 24.0 IN/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, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

**DESIGN ASSUMPTIONS**

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 54.3 P.S.F. G.S.L PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.09/1.00 (AB-AC-1), BC=0.04/1.00 (BC-BD-1), WB=0.27/1.00 (T-AK-1), SS=0.10/1.00 (AB-AC-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 = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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    | 788     |
|                             |               | 1987    | 1658    |         |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.40 (AA) (INPUT = 0.50 )

JSI METAL= 0.14 (AD) (INPUT = 1.00 )

DWG NO. TAM 11805167

STRUCTURAL COMPONENT ONLY

1/2

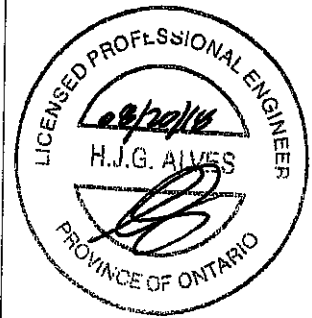


| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | G32        | 2        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

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| LOADING               |                           |                           |       |              |       |                           |                        |       |    |
|-----------------------|---------------------------|---------------------------|-------|--------------|-------|---------------------------|------------------------|-------|----|
| TOTAL LOAD CASES: (4) |                           |                           |       |              |       |                           |                        |       |    |
| CHORDS                |                           |                           |       |              | WEBS  |                           |                        |       |    |
| MEMB.                 | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1   | MAX CS1 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED UNBRAC LENGTH | FR-TO | TO |
| FR-TO                 |                           | FROM                      | TO    |              | FR-TO |                           |                        |       |    |
| AS-AR                 | 0/2                       | -38.5                     | -38.5 | 0.01 (3)     | 10.00 |                           |                        |       |    |
| AR-AQ                 | 0/2                       | -38.5                     | -38.5 | 0.01 (3)     | 10.00 |                           |                        |       |    |
| AQ-AP                 | 0/2                       | -38.5                     | -38.5 | 0.01 (3)     | 10.00 |                           |                        |       |    |
| AP-AO                 | 0/2                       | -38.5                     | -38.5 | 0.01 (3)     | 10.00 |                           |                        |       |    |
| AO-AN                 | 0/2                       | -38.5                     | -38.5 | 0.01 (3)     | 10.00 |                           |                        |       |    |
| AN-AM                 | 0/5                       | -38.5                     | -38.5 | 0.01 (3)     | 10.00 |                           |                        |       |    |
| AM-AL                 | 0/5                       | -38.5                     | -38.5 | 0.01 (3)     | 10.00 |                           |                        |       |    |
| AL-AK                 | 0/8                       | -38.5                     | -38.5 | 0.01 (3)     | 10.00 |                           |                        |       |    |
| AK-AJ                 | 0/12                      | -38.5                     | -38.5 | 0.01 (2)     | 10.00 |                           |                        |       |    |
| AJ-AI                 | 0/16                      | -38.5                     | -38.5 | 0.01 (2)     | 10.00 |                           |                        |       |    |
| AI-AH                 | 0/21                      | -38.5                     | -38.5 | 0.01 (2)     | 10.00 |                           |                        |       |    |
| AH-AG                 | 0/27                      | -38.5                     | -38.5 | 0.01 (2)     | 10.00 |                           |                        |       |    |
| AG-AF                 | 0/35                      | -38.5                     | -38.5 | 0.02 (2)     | 10.00 |                           |                        |       |    |
| AF-AE                 | 0/48                      | -38.5                     | -38.5 | 0.02 (2)     | 10.00 |                           |                        |       |    |
| AE-AD                 | 0/55                      | -38.5                     | -38.5 | 0.03 (1)     | 10.00 |                           |                        |       |    |



DWG NO. TAM 11805767  
STRUCTURAL  
COMPONENT ONLY 2/2

CONTINUED ON PAGE 2



| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T32A       | 2        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

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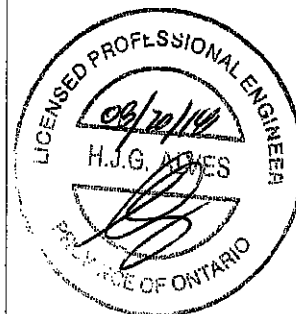
**LOADING**

TOTAL LOAD CASES: (18)

| CHORDS |                           |                           |                  | WEBS  |                           |                           |                  |
|--------|---------------------------|---------------------------|------------------|-------|---------------------------|---------------------------|------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX CSI (LC) |
| FR-TO  |                           | FROM                      | TO               | FR-TO |                           | FROM                      | TO               |
| Q-P    | -1072 / 6236              | -38.5                     | -38.5 0.34 (1)   | 6.25  |                           |                           |                  |
| P-O    | -1072 / 6236              | -38.5                     | -38.5 0.34 (1)   | 6.25  |                           |                           |                  |
| O-N    | -1217 / 6313              | -38.5                     | -38.5 0.37 (3)   | 6.25  |                           |                           |                  |
| N-M    | -10 / 20                  | -38.5                     | -38.5 0.06 (3)   | 10.00 |                           |                           |                  |

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING  
AS PER NBCC 4.1.6.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.8) PSF AT (40-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS,  $C_p C_g$ , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE.



DWG NO. TAM 17805181  
STRUCTURAL  
COMPONENT ONLY 3/2



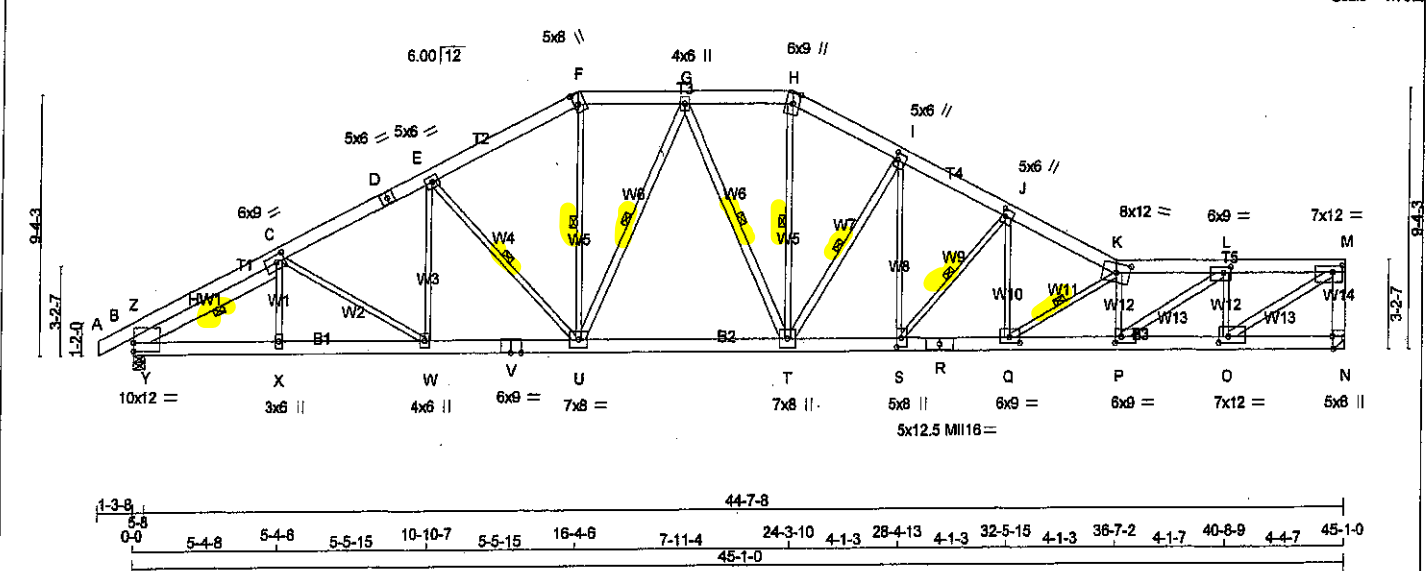
|                           |                           |                      |                 |                          |          |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|
| JOB NAME<br><b>297078</b> | TRUSS NAME<br><b>T33A</b> | QUANTITY<br><b>6</b> | PLY<br><b>1</b> | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|

Tamarack Roof Truss, Burlington

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Scale = 1:79.2



| LUMBER            |        |      |            |
|-------------------|--------|------|------------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER     |
| A - D             | 2x6    | DRY  | No.2       |
| D - F             | 2x6    | DRY  | No.2       |
| F - H             | 2x6    | DRY  | No.2       |
| H - K             | 2x6    | DRY  | No.2       |
| K - M             | 2x6    | DRY  | No.2       |
| N - M             | 2x6    | DRY  | No.2       |
| B - V             | 2x6    | DRY  | 2100F 1.8E |
| V - R             | 2x6    | DRY  | 2100F 1.8E |
| R - N             | 2x6    | DRY  | 2100F 1.8E |

| REINFORCING MEMBERS |     |     |      |
|---------------------|-----|-----|------|
| HW1                 | 2x6 | DRY | No.2 |

| ALL WEBS |     |     |            |
|----------|-----|-----|------------|
| EXCEPT   | 2x4 | DRY | No.2       |
| P - L    | 2x4 | DRY | 2100F 1.8E |
| O - M    | 2x4 | DRY | 2100F 1.8E |
| U - G    | 2x4 | DRY | No.2       |
| G - T    | 2x4 | DRY | No.2       |
| T - I    | 2x4 | DRY | No.2       |

DRY: SEASONED LUMBER.

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

| BEARINGS |      | FACTORED |          | MAXIMUM FACTORED |       | INPUT      |       | REQ'D |       |
|----------|------|----------|----------|------------------|-------|------------|-------|-------|-------|
| JT       | VERT | GROSS    | REACTION | DOWN             | HORZ  | BRG        | IN-SX | BRG   | IN-SX |
| N        | 4709 | 0        | 4885     | 0                | -1008 | MECHANICAL | -1008 | 5-8   | 5-8   |
| B        | 4946 | 0        | 4946     | 301              | -1017 | 5-8        | 5-8   | 5-8   | 5-8   |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT N.

PROVIDE ANCHORAGE AT BEARING JOINT N FOR 1008 LBS. FACTORED UPLIFT  
PROVIDE ANCHORAGE AT BEARING JOINT B FOR 1017 LBS. FACTORED UPLIFT

NOTE: ANCHORAGE REQUIRED FOR LARGE UPLIFT FORCES.  
SHALL BE PROVIDED BY BLDG. DESIGNER

PROVIDE FOR 301 LBS. FACTORED HORIZONTAL REACTION AT JOINT B

| UNFACTORED REACTIONS |          | 1ST LCASE |         | MAX/MIN. COMPONENT REACTIONS |             |
|----------------------|----------|-----------|---------|------------------------------|-------------|
| JT                   | COMBINED | SNOW      | LIVE    | PERM. LIVE                   | WIND        |
| N                    | 3395     | 2453 / 0  | 473 / 0 | 0 / 0                        | 131 / -1097 |
| B                    | 3556     | 2480 / 0  | 473 / 0 | 0 / 0                        | 150 / -1114 |

| HORIZONTAL REACTIONS |       | DEAD  |       | SOIL       |       |
|----------------------|-------|-------|-------|------------|-------|
| B                    | 0 / 0 | 0 / 0 | 0 / 0 | 215 / -117 | 0 / 0 |

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

**BRACING**  
MAX. UNBRACED TOP CHORD LENGTH = 1.76 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-U, F-U, H-T, G-U, G-T, I-T, J-S, K-Q, C-Y.

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: (18)

| CHORDS |                  | FACTORED         |               | WEBS  |                  | FACTORED      |               |
|--------|------------------|------------------|---------------|-------|------------------|---------------|---------------|
| MEMB.  | MAX. FORCE (LBS) | VERT. LOAD (PLF) | MAX. CS1 (LC) | MEMB. | MAX. FORCE (LBS) | MAX. CS1 (LC) | MAX. CS1 (LC) |
| FR-TO  |                  | FROM TO          |               | FR-TO |                  |               |               |
| A-B    | 0 / 2            | -170.4 -170.4    | 0.13 (2)      | 10.00 | X-C              | 0 / 252       | 0.06 (17)     |
| B-Z    | -5569 / 1030     | -170.4 -170.4    | 0.46 (2)      | 3.33  | C-W              | -522 / 328    | 0.38 (2)      |
| Z-C    | -3302 / 808      | -170.4 -170.4    | 0.39 (2)      | 4.32  | W-E              | -74 / 475     | 0.11 (2)      |
| C-D    | -7168 / 1528     | -170.4 -170.4    | 0.69 (2)      | 2.78  | E-U              | -1637 / 514   | 0.74 (2)      |
| D-E    | -7168 / 1528     | -170.4 -170.4    | 0.69 (2)      | 2.78  | U-F              | -430 / 2079   | 0.47 (1)      |
| E-F    | -6232 / 1392     | -170.4 -170.4    | 0.60 (2)      | 3.07  | T-H              | -490 / 2371   | 0.53 (1)      |
| F-G    | -5558 / 1332     | -170.4 -170.4    | 0.32 (1)      | 3.48  | P-K              | -3285 / 742   | 0.56 (1)      |
| G-H    | -5963 / 1482     | -170.4 -170.4    | 0.34 (3)      | 3.34  | P-L              | -1158 / 5750  | 0.43 (1)      |
| H-I    | -6670 / 1560     | -170.4 -170.4    | 0.40 (3)      | 3.14  | O-L              | -4152 / 957   | 0.71 (3)      |
| I-J    | -8138 / 1819     | -170.4 -170.4    | 0.51 (3)      | 2.76  | O-M              | -1719 / 8312  | 0.62 (3)      |
| J-K    | -10015 / 2142    | -170.4 -170.4    | 0.72 (3)      | 2.22  | U-G              | -1678 / 387   | 0.78 (3)      |
| K-L    | -11715 / 2469    | -170.4 -170.4    | 0.81 (3)      | 1.78  | G-T              | -907 / 717    | 0.41 (2)      |
| L-M    | -7039 / 1514     | -170.4 -170.4    | 0.47 (3)      | 2.95  | T-I              | -2871 / 756   | 0.85 (3)      |
| M-N    | -4800 / 1026     | 0.0 0.0          | 0.44 (3)      | 4.70  | S-I              | -475 / 2258   | 0.51 (3)      |
|        |                  |                  |               |       | S-J              | -2854 / 689   | 0.76 (3)      |
| B-Y    | -822 / 2935      | -38.5 -38.5      | 0.16 (1)      | 6.25  | Q-J              | -390 / 2198   | 0.49 (3)      |
| Y-X    | -1468 / 6667     | -38.5 -38.5      | 0.37 (1)      | 6.25  | Q-K              | -3508 / 772   | 0.71 (3)      |
| X-W    | -1469 / 6664     | -38.5 -38.5      | 0.38 (1)      | 6.25  | Y-Z              | -332 / 2776   | 0.00 (1)      |
| W-V    | -1284 / 6431     | -38.5 -38.5      | 0.36 (1)      | 6.25  | Y-C              | -4525 / 783   | 0.58 (1)      |
| V-U    | -1284 / 6431     | -38.5 -38.5      | 0.36 (1)      | 6.25  |                  |               |               |
| U-T    | -981 / 5915      | -38.5 -38.5      | 0.35 (1)      | 6.25  |                  |               |               |
| T-S    | -1291 / 7284     | -38.5 -38.5      | 0.42 (1)      | 6.25  |                  |               |               |
| S-R    | -1740 / 8986     | -38.5 -38.5      | 0.48 (1)      | 6.25  |                  |               |               |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 51.8 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 75.3 PSF

**SPACING = 24.0 IN. O.C.**

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 4 OF OBC 2012, OBC 2018  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

**DESIGN ASSUMPTIONS**  
- SLOPE REDUCTION FACTOR NOT USED

(80 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 51.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.50")  
CALCULATED VERT. DEFL.(LL) = L/369 (0.51")  
ALLOWABLE DEFL.(TL) = L/180 (3.01")  
CALCULATED VERT. DEFL.(TL) = L/846 (0.64")

CSI: TC=0.81/1.00 (K-L-3), BC=0.72/1.00 (P-Q-3), WB=0.85/0.90 (I-T-3), SS=0.39/1.00 (E-F-2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00  
WIND LOAD IMPORTANCE FACTOR = 1.00  
LIVE LOAD IMPORTANCE FACTOR = 1.00  
COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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  | 788   | 1987 | 1656    |  |
| MI16        | 438   | 278             | 2341  | 1245  | 4293 | 1656    |  |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (P) (INPUT = 0.90)  
JSI GRIP= 1.00 (K) (INPUT = 1.00)

DRWG NO. TAW  
STRUCTURAL 1805182 1/2  
COMPONENT ONLY



|                           |                           |                      |                 |                                 |          |
|---------------------------|---------------------------|----------------------|-----------------|---------------------------------|----------|
| JOB NAME<br><b>297078</b> | TRUSS NAME<br><b>T33A</b> | QUANTITY<br><b>6</b> | PLY<br><b>1</b> | JOB DESC.<br><b>TRUSS DESC.</b> | DRWG NO. |
|---------------------------|---------------------------|----------------------|-----------------|---------------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MiTek Industries, Inc. Mon Aug 20 09:47:56 2018 Page 2  
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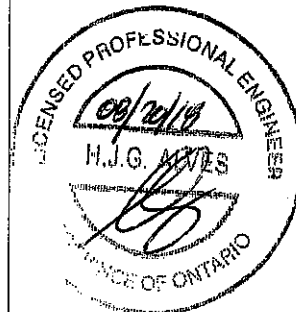
**LOADING**

TOTAL LOAD CASES: (18)

| CHORDS |                           |                           |                  | WEBS               |       |                           |               |
|--------|---------------------------|---------------------------|------------------|--------------------|-------|---------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
| FR-TO  |                           | FROM                      | TO               |                    | FR-TO |                           |               |
| R-Q    | -1740 / 8986              | -38.5                     | -38.5 0.48 (1)   | 6.25               |       |                           |               |
| Q-P    | -2383 / 11838             | -38.5                     | -38.5 0.72 (3)   | 6.25               |       |                           |               |
| P-O    | -1398 / 7039              | -38.5                     | -38.5 0.48 (3)   | 6.25               |       |                           |               |
| O-N    | -22 / 58                  | -38.5                     | -38.5 0.04 (6)   | 6.25               |       |                           |               |

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING  
AS PER NBCC 4.1.6.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (40-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE.



DWG NO. TAM **T1805182**  
STRUCTURAL  
COMPONENT ONLY **7/2**





| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T35        | 2        | 4   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MiTek Industries, Inc. Mon Aug 20 09:48:00 2018 Page 2  
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**HANGERS NOTES**

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 4783.3 lbs FACTORED DOWN AND 1001.0 lbs FACTORED UP AT 5-12, 4991.9 lbs FACTORED DOWN AND 1045.7 lbs FACTORED UP AT 2-5-12, 4846.3 lbs FACTORED DOWN AND 1020.4 lbs FACTORED UP AT 4-5-12, AND 4846.3 lbs FACTORED DOWN AND 1020.4 lbs FACTORED UP AT 6-5-12, AND 4846.3 lbs FACTORED DOWN AND 1020.4 lbs FACTORED UP AT 8-5-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF ( 9.6) PSF AT (40-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS,  $C_p C_g$ , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE.



DWG NO. TAM 11805183  
STRUCTURAL  
COMPONENT ONLY 2/2

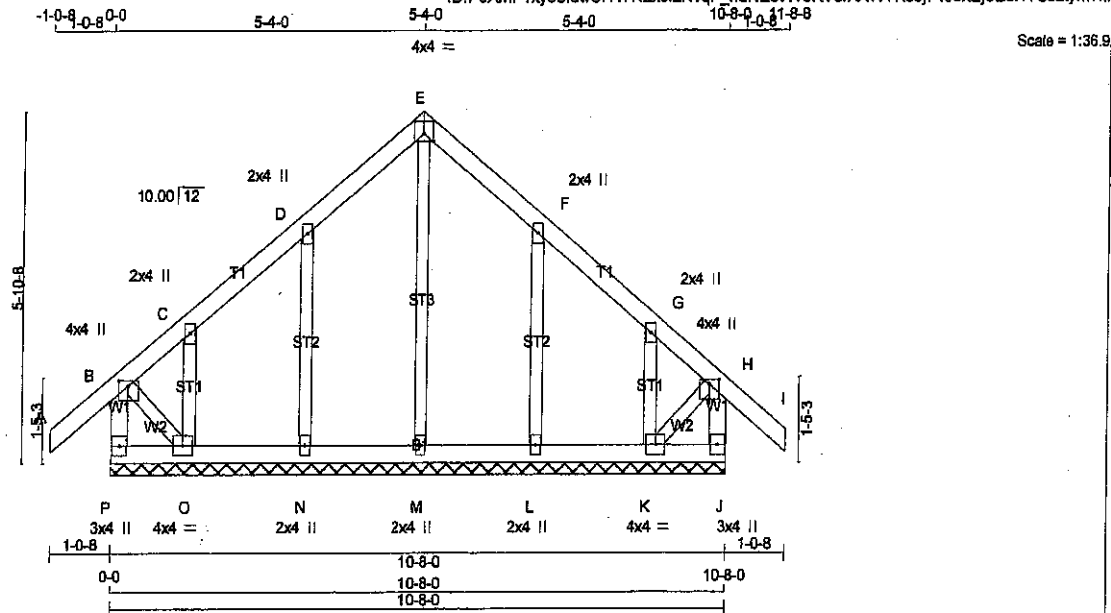


|          |            |          |     |             |          |
|----------|------------|----------|-----|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 297078   | G36        | 2        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MITek Industries, Inc. Mon Aug 20 09:47:00 2018 Page 1

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TOTAL WEIGHT = 2 X 49 = 98 lb

| LUMBER                           |        |      |        |        |
|----------------------------------|--------|------|--------|--------|
| N.L.G.A. RULES                   | CHORDS | SIZE | LUMBER | DESCR. |
| 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   | SPF    |
| ALL GABLE WEBS                   | 2x3    | DRY  | No.2   | SPF    |
| DRY: SEASONED LUMBER.            |        |      |        |        |
| GABLE STUDS SPACED AT 2'-0-0 OC. |        |      |        |        |

| 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, D, F, G                  |         |        |     |               |
| C                           | TMV+w   | MT20   | 2.0 | 4.0           |
| E                           | TTW+p   | MT20   | 4.0 | 4.0 1.50 2.00 |
| H                           | TMVW+p  | MT20   | 4.0 | 4.0 1.00 2.00 |
| J                           | BMV1+p  | MT20   | 3.0 | 4.0           |
| K                           | BMVW1-t | MT20   | 4.0 | 4.0           |
| L, M, N                     |         |        |     |               |
| L                           | BMV1+w  | MT20   | 2.0 | 4.0           |
| O                           | BMVW1-t | MT20   | 4.0 | 4.0           |
| P                           | BMV1+p  | MT20   | 3.0 | 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) | MAX. FACTORED CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |  |
| FR-TO  |                           | FROM TO                   |                        | FR-TO |                           |                        |  |
| P-B    | -332 / 0                  | 0.0 0.0 0.03 (1)          | 7.81                   | M-E   | -184 / 0                  | 0.08 (1)               |  |
| A-B    | 0 / 47                    | -129.7 -129.7 0.12 (1)    | 10.00                  | N-D   | -309 / 0                  | 0.08 (1)               |  |
| B-C    | -75 / 0                   | -129.7 -129.7 0.11 (1)    | 8.25                   | O-C   | -131 / 0                  | 0.02 (1)               |  |
| C-D    | -20 / 0                   | -129.7 -129.7 0.08 (1)    | 6.25                   | L-F   | -309 / 0                  | 0.08 (1)               |  |
| D-E    | -42 / 0                   | -129.7 -129.7 0.08 (1)    | 6.25                   | K-G   | -131 / 0                  | 0.02 (1)               |  |
| E-F    | -42 / 0                   | -129.7 -129.7 0.08 (1)    | 6.25                   | B-O   | 0 / 40                    | 0.01 (1)               |  |
| F-G    | -20 / 0                   | -129.7 -129.7 0.08 (1)    | 6.25                   | K-H   | 0 / 40                    | 0.01 (1)               |  |
| G-H    | -75 / 0                   | -129.7 -129.7 0.11 (1)    | 6.25                   |       |                           |                        |  |
| H-I    | 0 / 47                    | -129.7 -129.7 0.12 (1)    | 10.00                  |       |                           |                        |  |
| J-H    | -332 / 0                  | 0.0 0.0 0.03 (1)          | 7.81                   |       |                           |                        |  |
| P-O    | 0 / 0                     | -38.5 -38.5 0.02 (3)      | 10.00                  |       |                           |                        |  |
| O-N    | 0 / 26                    | -38.5 -38.5 0.03 (2)      | 10.00                  |       |                           |                        |  |
| N-M    | 0 / 18                    | -38.5 -38.5 0.03 (3)      | 10.00                  |       |                           |                        |  |
| M-L    | 0 / 18                    | -38.5 -38.5 0.03 (3)      | 10.00                  |       |                           |                        |  |
| L-K    | 0 / 26                    | -38.5 -38.5 0.03 (2)      | 10.00                  |       |                           |                        |  |
| K-J    | 0 / 0                     | -38.5 -38.5 0.02 (3)      | 10.00                  |       |                           |                        |  |

#### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 38.2 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 PSF

**SPACING = 24.0 IN./C**

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 086-09, CSA 089-14  
- TPIC 2011, TPIC 2014

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

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12/1.00 (H-I-1), BC=0.03/1.00 (K-L-2), WB=0.08/1.00 (E-M-1), SSI=0.10/1.00 (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 = 1.00

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 788 | 1987 1856 |  |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.30 (E) (INPUT = 0.90)  
JSI METAL= 0.16 (D) (INPUT = 1.00)



DRWG NO. TAM 71805168  
STRUCTURAL  
COMPONENT ONLY

[illegible]



| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T131       | 1        | 2   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

Version 8.210 S May 16 2018 Mitek Industries, Inc. Mon Aug 20 09:48:04 2018 Page 2  
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**HANGERS NOTES**

1) SPECIAL HANGER(S) OR CONNECTION(S)  
REQUIRED TO SUPPORT CONCENTRATED  
LOAD(S) 289.0 lbs FACTORED DOWN AT 18-8-8,  
299.0 lbs FACTORED DOWN AT 2-11-8, 216.8 lbs  
FACTORED DOWN AT 2-11-8, 156.1 lbs  
FACTORED DOWN AT 5-0-4, 156.1 lbs  
FACTORED DOWN AT 7-0-4, 156.1 lbs  
FACTORED DOWN AT 9-0-4, 156.1 lbs  
FACTORED DOWN AT 10-9-0, 156.1 lbs  
FACTORED DOWN AT 12-5-12, 156.1 lbs  
FACTORED DOWN AT 14-5-12, AND 156.1 lbs  
FACTORED DOWN AT 16-5-12, AND 163.1 lbs  
FACTORED DOWN AT 18-6-8 ON TOP CHORD,  
AND 54.9 lbs FACTORED DOWN AT 1-0-4, 61.9  
lbs FACTORED DOWN AT 3-0-4, 54.9 lbs  
FACTORED DOWN AT 5-0-4, 54.9 lbs  
FACTORED DOWN AT 7-0-4, 54.9 lbs  
FACTORED DOWN AT 9-0-4, 54.9 lbs  
FACTORED DOWN AT 10-9-0, 54.9 lbs  
FACTORED DOWN AT 12-5-12, 54.9 lbs  
FACTORED DOWN AT 14-5-12, 54.9 lbs  
FACTORED DOWN AT 16-5-12, AND 61.9 lbs  
FACTORED DOWN AT 18-5-12, AND 61.1 lbs  
FACTORED DOWN AT 20-5-12 ON BOTTOM  
CHORD. DESIGN FOR UNSPECIFIED  
CONNECTION(S) IS DELEGATED TO THE  
BUILDING DESIGNER.

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  |
|----|---------|------|------|------|------|------|-------|
| J  | 18-5-12 | -44  | -44  | ---  | BACK | VERT | TOTAL |
| N  | 3-0-4   | -44  | -44  | ---  | BACK | VERT | TOTAL |
| P  | 5-0-4   | -106 | -106 | ---  | BACK | VERT | TOTAL |
| Q  | 7-0-4   | -106 | -106 | ---  | BACK | VERT | TOTAL |
| R  | 9-0-4   | -106 | -106 | ---  | BACK | VERT | TOTAL |
| S  | 10-9-0  | -106 | -106 | ---  | BACK | VERT | TOTAL |
| T  | 12-5-12 | -106 | -106 | ---  | BACK | VERT | TOTAL |
| U  | 14-5-12 | -106 | -106 | ---  | BACK | VERT | TOTAL |
| V  | 16-5-12 | -106 | -106 | ---  | BACK | VERT | TOTAL |
| W  | 1-0-4   | -38  | -38  | ---  | BACK | VERT | TOTAL |
| X  | 5-0-4   | -38  | -38  | ---  | BACK | VERT | TOTAL |
| Y  | 7-0-4   | -38  | -38  | ---  | BACK | VERT | TOTAL |
| Z  | 9-0-4   | -38  | -38  | ---  | BACK | VERT | TOTAL |
| AA | 10-9-0  | -38  | -38  | ---  | BACK | VERT | TOTAL |
| AB | 12-5-12 | -38  | -38  | ---  | BACK | VERT | TOTAL |
| AC | 14-5-12 | -38  | -38  | ---  | BACK | VERT | TOTAL |
| AD | 16-5-12 | -38  | -38  | ---  | BACK | VERT | TOTAL |



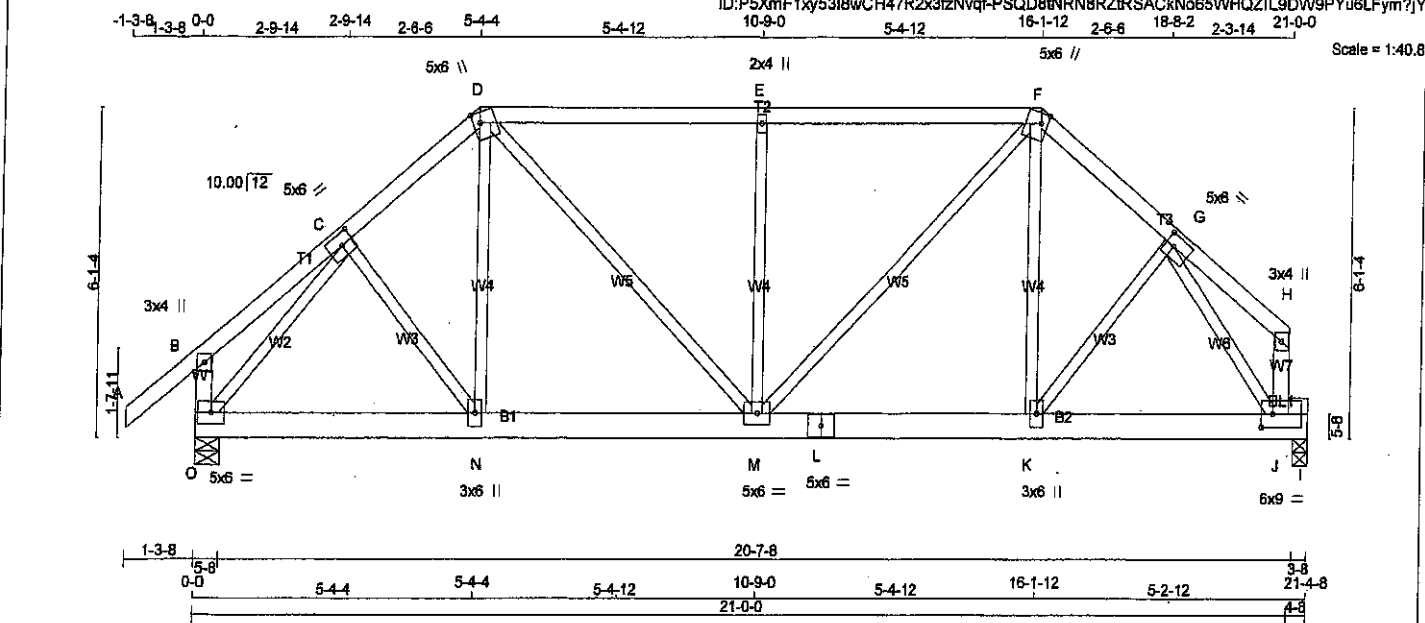
DWG NO. TAM 11805784  
STRUCTURAL  
COMPONENT ONLY 2/2

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|



|                           |                           |                      |                 |                                 |          |
|---------------------------|---------------------------|----------------------|-----------------|---------------------------------|----------|
| JOB NAME<br><b>297078</b> | TRUSS NAME<br><b>T133</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>TRUSS DESC.</b> | DRWG NO. |
|---------------------------|---------------------------|----------------------|-----------------|---------------------------------|----------|

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TOTAL WEIGHT = 109 lb

| LUMBER                    |      |        |        |
|---------------------------|------|--------|--------|
| N. L. G. A. RULES         |      |        |        |
| CHORDS                    | SIZE | LUMBER | DESCR. |
| A - D                     | 2x4  | DRY    | No.2   |
| D - F                     | 2x4  | DRY    | No.2   |
| F - H                     | 2x4  | DRY    | No.2   |
| O - B                     | 2x4  | DRY    | No.2   |
| J - H                     | 2x4  | DRY    | No.2   |
| O - L                     | 2x6  | DRY    | No.2   |
| L - I                     | 2x6  | DRY    | No.2   |
| BEARING BLOCKS            |      |        |        |
| BL1                       | 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                           | TMV+p   | MT20   | 3.0 | 4.0           |
| C                           | TMWW-t  | MT20   | 5.0 | 6.0 2.50 2.75 |
| D                           | TTWW+m  | MT20   | 5.0 | 6.0 2.25 1.50 |
| E                           | TMW+w   | MT20   | 2.0 | 4.0           |
| F                           | TTWW+m  | MT20   | 5.0 | 6.0 2.25 1.50 |
| G                           | TMWW-t  | MT20   | 5.0 | 6.0 2.50 2.00 |
| H                           | TMV+p   | MT20   | 3.0 | 4.0           |
| J                           | BMVWK-t | MT20   | 6.0 | 9.0 3.00 2.50 |
| K                           | BMVWK-t | MT20   | 3.0 | 6.0           |
| L                           | BS-t    | MT20   | 5.0 | 6.0           |
| M                           | BMVWK-t | MT20   | 5.0 | 6.0           |
| N                           | BMVWK-t | MT20   | 3.0 | 6.0           |
| O                           | BMVWK-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 |      | DOWN             |        | BRG   |       | BRG   |       |
| JT                                                                                            | VERT | HORZ           | DOWN | HORZ             | UPLIFT | IN-SX | IN-SX | IN-SX | IN-SX |
| I                                                                                             | 1749 | 0              | 1749 | 0                | 0      | 3-8   | 3-8   |       |       |
| O                                                                                             | 1976 | 0              | 1976 | 0                | 0      | 5-8   | 5-8   |       |       |

| UNFACTORED REACTIONS |          |                              |         |           |       |         |       |
|----------------------|----------|------------------------------|---------|-----------|-------|---------|-------|
| 1ST LCASE            |          | MAX/MIN. COMPONENT REACTIONS |         |           |       |         |       |
| JT                   | COMBINED | SNOW                         | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |
| I                    | 1288     | 789 / 0                      | 224 / 0 | 0 / 0     | 0 / 0 | 273 / 0 | 0 / 0 |
| O                    | 1441     | 923 / 0                      | 224 / 0 | 0 / 0     | 0 / 0 | 294 / 0 | 0 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.98 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 | FACTORED   |          | MEMB.    |       | MAX. FACTORED | FACTORED  |          |
|                       |           | FORCE         | VERT. LOAD | LC1      | MAX.     |       |               | FORCE     | MAX.     |
|                       |           | (LBS)         | (PLF)      | CSI (LC) | UNBRAC   |       |               | (LBS)     | CSI (LC) |
| FR-TO                 |           |               | FROM       | TO       | LENGTH   | FR-TO |               |           |          |
| A-B                   | 0 / 57    |               | -129.7     | -129.7   | 0.18 (1) | 10.00 | N-D           | 0 / 219   | 0.05 (3) |
| B-C                   | 0 / 22    |               | -129.7     | -129.7   | 0.13 (1) | 10.00 | D-M           | 0 / 677   | 0.15 (1) |
| C-D                   | -1698 / 0 |               | -129.7     | -129.7   | 0.16 (1) | 4.95  | M-E           | -853 / 0  | 0.47 (1) |
| D-E                   | -1750 / 0 |               | -129.7     | -129.7   | 0.73 (1) | 3.98  | M-F           | 0 / 655   | 0.15 (1) |
| E-F                   | -1750 / 0 |               | -129.7     | -129.7   | 0.73 (1) | 3.98  | K-F           | 0 / 235   | 0.05 (2) |
| F-G                   | -1713 / 0 |               | -129.7     | -129.7   | 0.15 (1) | 4.95  | C-N           | 0 / 121   | 0.03 (3) |
| G-H                   | 0 / 33    |               | -129.7     | -129.7   | 0.11 (1) | 10.00 | O-G           | -1990 / 0 | 0.80 (1) |
| O-B                   | -320 / 0  |               | 0.0        | 0.0      | 0.03 (1) | 7.81  | K-C           | 0 / 401   | 0.09 (1) |
| J-H                   | -101 / 0  |               | 0.0        | 0.0      | 0.01 (1) | 7.81  | G-J           | -2076 / 0 | 0.56 (1) |
|                       |           |               |            |          |          |       |               |           |          |
| O-N                   | 0 / 1221  |               | -38.5      | -38.5    | 0.22 (1) | 10.00 |               |           |          |
| N-M                   | 0 / 1286  |               | -38.5      | -38.5    | 0.23 (1) | 10.00 |               |           |          |
| M-L                   | 0 / 1301  |               | -38.5      | -38.5    | 0.38 (1) | 10.00 |               |           |          |
| L-K                   | 0 / 1301  |               | -38.5      | -38.5    | 0.38 (1) | 10.00 |               |           |          |
| K-J                   | 0 / 1046  |               | -38.5      | -38.5    | 0.73 (1) | 10.00 |               |           |          |
| J-I                   | 0 / 0     |               | -38.5      | -38.5    | 0.38 (1) | 10.00 |               |           |          |

| DESIGN CRITERIA  |   |          |
|------------------|---|----------|
| SPECIFIED LOADS: |   |          |
| TOP CH. LL       | = | 38.2 PSF |
| DL               | = | 6.0 PSF  |
| BOT CH. LL       | = | 10.5 PSF |
| DL               | = | 7.0 PSF  |
| TOTAL LOAD       | = | 61.7 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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2012, OBC 2016  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.71")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.07")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.71")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.12")

CSI: TC=0.73/1.00 (D-E-1), BC=0.73/1.00 (J-K-1), WB=0.60/1.00 (C-O-1), SSI=0.64/1.00 (I-J-1)

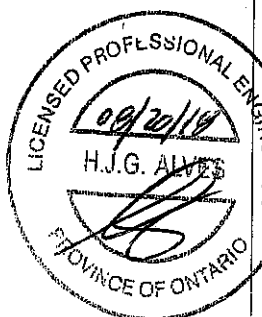
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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           |
| MT20                                | 818       | 354   | 1667    | 788 1987 1856 |
| PLATE PLACEMENT TOL. = 0.250 inches |           |       |         |               |
| PLATE ROTATION TOL. = 5.0 Deg.      |           |       |         |               |
| JSI GRIP=0.88 (J) (INPUT=0.90)      |           |       |         |               |
| JSI METAL=0.49 (G) (INPUT=1.00)     |           |       |         |               |



DWG NO. TAM 1705786  
STRUCTURAL  
COMPONENT ONLY

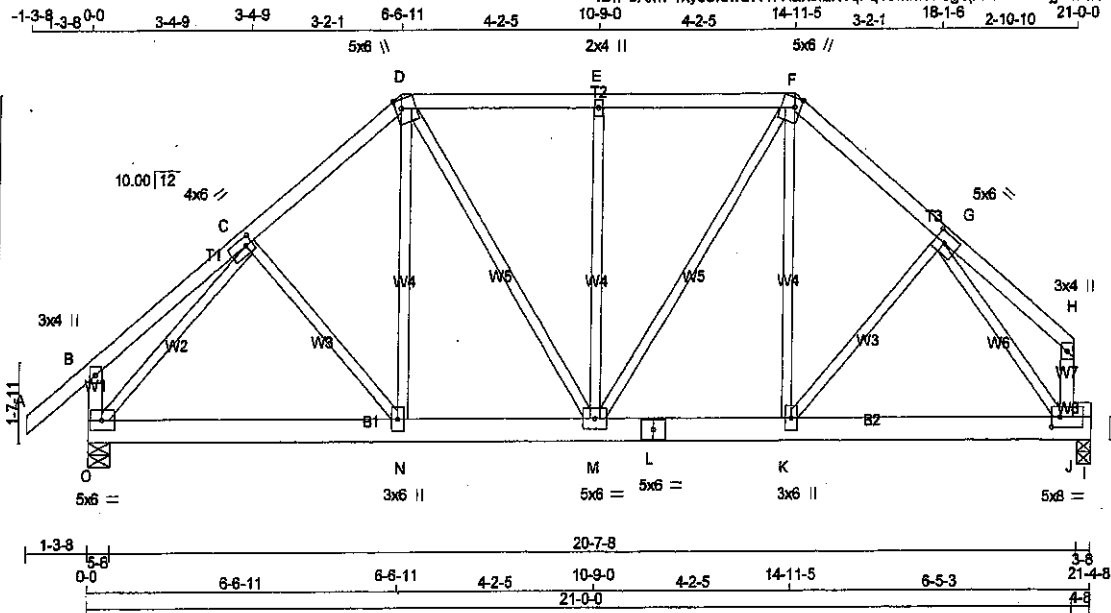


| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T134       | 1        | 1   | TRUSS DESC. |          |

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ID: P5XmF1xy53I8wCH47R2x3fzNvqf-q15MmvPJg3p8kvBkbtVj8fmmNVmX4b5W7myaym7Jv



Scale = 1:45.2

TOTAL WEIGHT = 115 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 - H             | 2x4    | DRY  | No.2   | SPF    |
| O - B             | 2x4    | DRY  | No.2   | SPF    |
| J - L             | 2x4    | DRY  | No.2   | SPF    |
| O - L             | 2x6    | DRY  | No.2   | SPF    |
| L - I             | 2x6    | DRY  | No.2   | SPF    |
| J - I             | 2x4    | DRY  | No.2   | SPF    |

ALL WEBS 2x3 DRY 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+t  | MT20   | 4.0 | 6.0 | 2.00 | 1.75 |
| D  | TTWW+m  | MT20   | 5.0 | 8.0 | 2.25 | 1.50 |
| E  | TMVW+t  | 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  | BMVW+t  | MT20   | 5.0 | 8.0 | 2.50 | 2.00 |
| K  | BMVW+t  | MT20   | 3.0 | 6.0 |      |      |
| L  | SS-t    | MT20   | 5.0 | 6.0 |      |      |
| M  | BMVW+t  | MT20   | 5.0 | 6.0 |      |      |
| N  | BMVW+t  | MT20   | 3.0 | 6.0 |      |      |
| O  | BMVW1-t | MT20   | 5.0 | 6.0 |      |      |

#### 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 |
|----|-------------------------|---------------------------------|-----------|----------|
| O  | 1976                    | 1976                            | 5-8       | 5-8      |
| I  | 1749                    | 1749                            | 3-8       | 3-8      |

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS | SNOW    | LIVE  | PERM.LIVE | WIND    | DEAD  | SOIL  |
|----|-----------|------------------------------|---------|-------|-----------|---------|-------|-------|
| O  | 1441      | 923 / 0                      | 224 / 0 | 0 / 0 | 0 / 0     | 294 / 0 | 0 / 0 | 0 / 0 |
| I  | 1286      | 789 / 0                      | 224 / 0 | 0 / 0 | 0 / 0     | 273 / 0 | 0 / 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 = 4.90 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)

| MEMB. | CHORDS    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC2) | MAX. FACTORED VERT. LOAD (LC3) | MAX. FACTORED VERT. LOAD (LC4) | MAX. FACTORED VERT. LOAD (LC5) | MAX. FACTORED VERT. LOAD (LC6) | MAX. FACTORED VERT. LOAD (LC7) | MAX. FACTORED VERT. LOAD (LC8) | MAX. FACTORED VERT. LOAD (LC9) | MAX. FACTORED VERT. LOAD (LC10) |
|-------|-----------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|
| FR-TO |           |                           |                           |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                 |
| A-B   | 0 / 57    | -129.7                    | -129.7                    | 0.18 (1)                       | 10.00                          | C-N                            | -40 / 80                       | 0.02 (3)                       |                                |                                |                                |                                |                                 |
| B-C   | 0 / 30    | -129.7                    | -129.7                    | 0.21 (1)                       | 10.00                          | N-D                            | 0 / 334                        | 0.08 (2)                       |                                |                                |                                |                                |                                 |
| C-D   | -1642 / 0 | -129.7                    | -129.7                    | 0.25 (1)                       | 4.91                           | D-M                            | 0 / 410                        | 0.09 (1)                       |                                |                                |                                |                                |                                 |
| D-E   | -1457 / 0 | -129.7                    | -129.7                    | 0.41 (1)                       | 4.90                           | M-E                            | -656 / 0                       | 0.54 (1)                       |                                |                                |                                |                                |                                 |
| E-F   | -1457 / 0 | -129.7                    | -129.7                    | 0.41 (1)                       | 4.90                           | M-F                            | 0 / 388                        | 0.09 (1)                       |                                |                                |                                |                                |                                 |
| F-G   | -1654 / 0 | -129.7                    | -129.7                    | 0.22 (1)                       | 4.93                           | K-F                            | 0 / 352                        | 0.08 (2)                       |                                |                                |                                |                                |                                 |
| G-H   | 0 / 30    | -129.7                    | -129.7                    | 0.18 (1)                       | 10.00                          | K-G                            | 0 / 167                        | 0.04 (2)                       |                                |                                |                                |                                |                                 |
| H-I   | -344 / 0  | 0.0                       | 0.0                       | 0.04 (1)                       | 7.81                           | C-C                            | -1979 / 0                      | 0.81 (1)                       |                                |                                |                                |                                |                                 |
| J-H   | -132 / 0  | 0.0                       | 0.0                       | 0.01 (1)                       | 7.91                           | G-J                            | -2003 / 0                      | 0.72 (1)                       |                                |                                |                                |                                |                                 |
| O-N   | 0 / 1261  | -38.5                     | -38.5                     | 0.25 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                |                                 |
| N-M   | 0 / 1240  | -38.5                     | -38.5                     | 0.24 (2)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                |                                 |
| M-L   | 0 / 1253  | -38.5                     | -38.5                     | 0.36 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                |                                 |
| L-K   | 0 / 1253  | -38.5                     | -38.5                     | 0.36 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                |                                 |
| K-J   | 0 / 1148  | -38.5                     | -38.5                     | 0.57 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                |                                 |
| J-I   | 0 / 0     | -38.5                     | -38.5                     | 0.27 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                |                                 |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 38.2 PSF |
| DL         | = 6.0 PSF  |
| BOT CH. LL | = 10.5 PSF |
| DL         | = 7.0 PSF  |
| TOTAL LOAD | = 61.7 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, NBC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.71")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")  
ALLOWABLE DEFL.(TL) = L/360 (0.71")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.41/1.00 (E-F:1), BC=0.57/1.00 (L-K:1), WB=0.81/1.00 (O-I:1), SS=0.84/1.00 (J-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 = 1.00

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 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

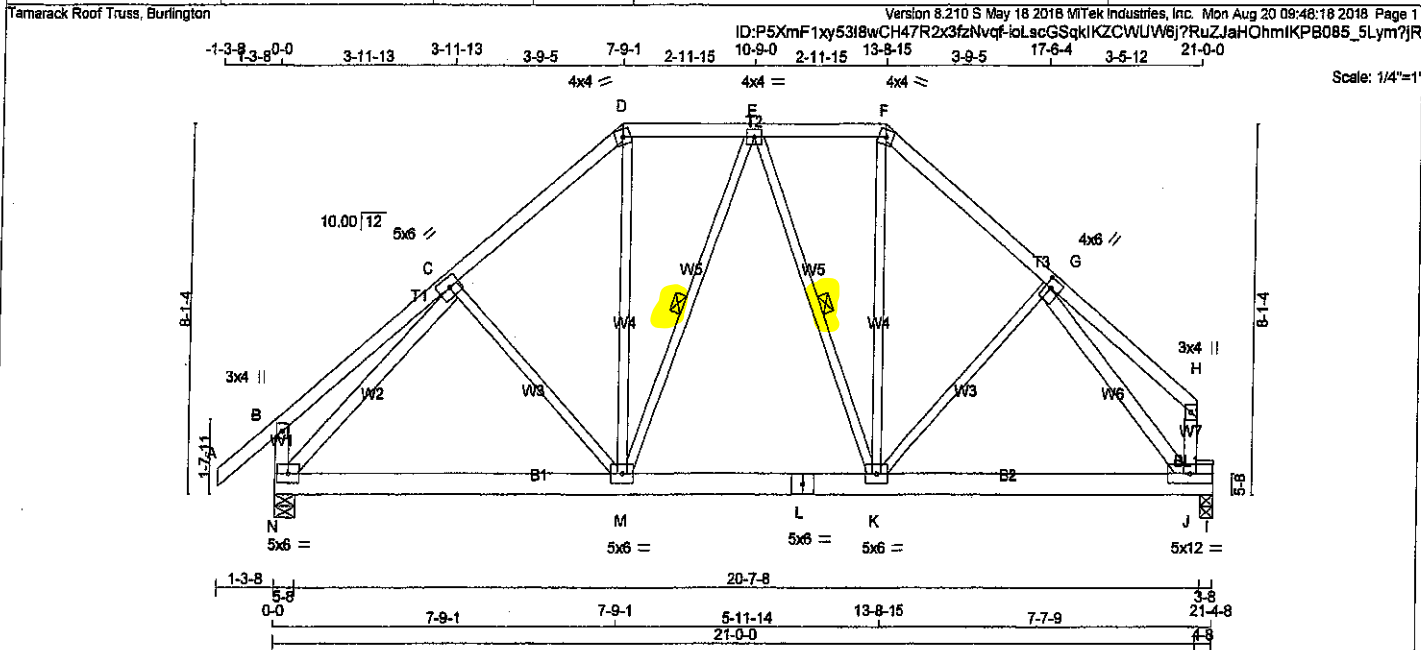
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.88 (C) (INPUT = 0.90)  
JSI METAL= 0.49 (C) (INPUT = 1.00)

DWG NO. TAM 1805187  
STRUCTURAL  
COMPONENT ONLY



| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T135       | 1        | 1   | TRUSS DESC. |          |



| LUMBER                |      |        |        | DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER                      |                              |         |           | DESIGN CRITERIA                                                                                     |         |          |          |
|-----------------------|------|--------|--------|--------------------------------------------------------------------------------------------------------------------|------------------------------|---------|-----------|-----------------------------------------------------------------------------------------------------|---------|----------|----------|
| CHORDS                | SIZE | LUMBER | DESCR. | BEARINGS                                                                                                           |                              |         |           | SPECIFIED LOADS:                                                                                    |         |          |          |
| A - D                 | 2x4  | DRY    | No.2   | FACTORED                                                                                                           | MAXIMUM FACTORED             | INPUT   | REQD      | TOP CH.                                                                                             | LL      | =        | 38.2 PSF |
| D - F                 | 2x4  | DRY    | No.2   | GROSS REACTION                                                                                                     | GROSS REACTION               | BRG     | BRG       | DL                                                                                                  | =       | 6.0 PSF  |          |
| F - H                 | 2x4  | DRY    | No.2   | JT VERT                                                                                                            | DOWN                         | UPLIFT  | IN-SX     | BOT CH.                                                                                             | LL      | =        | 10.5 PSF |
| N - B                 | 2x4  | DRY    | No.2   | N 1976                                                                                                             | 0                            | 1976    | 0         | DL                                                                                                  | =       | 7.0 PSF  |          |
| J - H                 | 2x4  | DRY    | No.2   | I 1749                                                                                                             | 0                            | 1749    | 0         | TOTAL LOAD                                                                                          | =       | 61.7 PSF |          |
| N - L                 | 2x6  | DRY    | No.2   | UNFACTORED REACTIONS                                                                                               |                              |         |           | SPACING = 24.0 IN. C/C                                                                              |         |          |          |
| L - I                 | 2x6  | DRY    | No.2   | 1ST LCASE                                                                                                          | MAX/MIN. COMPONENT REACTIONS |         |           | LOADING IN PLAT SECTION BASED ON A SLOPE OF 6.00/12                                                 |         |          |          |
| BEARING BLOCKS        |      |        |        | JT COMBINED                                                                                                        | SNOW                         | LIVE    | PERM.LIVE | WIND                                                                                                | DEAD    | SOIL     |          |
| BL1                   | 2x4  | DRY    | No.2   | N 1441                                                                                                             | 923 / 0                      | 224 / 0 | 0 / 0     | 0 / 0                                                                                               | 294 / 0 | 0 / 0    |          |
| ALL WEBS EXCEPT       |      |        |        | I 1286                                                                                                             | 789 / 0                      | 224 / 0 | 0 / 0     | 0 / 0                                                                                               | 273 / 0 | 0 / 0    |          |
| N - C                 | 2x4  | DRY    | No.2   | BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) N, I                                                         |                              |         |           | THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015 |         |          |          |
| G - J                 | 2x4  | DRY    | No.2   | BRACING                                                                                                            |                              |         |           | THIS DESIGN COMPLIES WITH:                                                                          |         |          |          |
| DRY: SEASONED LUMBER. |      |        |        | TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.86 FT.                                                         |                              |         |           | - PART 9 OF OBC 2012, OBC 2018                                                                      |         |          |          |
|                       |      |        |        | MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.                                    |                              |         |           | - CSA 086-09, CSA 086-14                                                                            |         |          |          |
|                       |      |        |        | ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.                                         |                              |         |           | - TPIC 2011, TPIC 2014                                                                              |         |          |          |
|                       |      |        |        | 1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-M, E-K                                                                       |                              |         |           | (55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD  |         |          |          |
|                       |      |        |        | END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW |                              |         |           | ALLOWABLE DEFL.(LL)= L/360 (0.71")                                                                  |         |          |          |
|                       |      |        |        | LOADING                                                                                                            |                              |         |           | CALCULATED VERT. DEFL.(LL) = L/999 (0.13")                                                          |         |          |          |
|                       |      |        |        | TOTAL LOAD CASES: (4)                                                                                              |                              |         |           | ALLOWABLE DEFL.(TL)= L/360 (0.71")                                                                  |         |          |          |
|                       |      |        |        | CHORDS                                                                                                             |                              |         |           | CALCULATED VERT. DEFL.(TL) = L/999 (0.22")                                                          |         |          |          |
|                       |      |        |        | MEMB. MAX. FACTORED FORCE (LBS)                                                                                    |                              |         |           | CSI: TC=0.37/1.00 (C-D-1), BC=0.74/1.00 (J-K-1), WB=0.78/1.00 (C-N-1), SS=0.64/1.00 (I-J-1)         |         |          |          |
|                       |      |        |        | VERT. LOAD LC1 MAX. MAX. UNBRACED LENGTH                                                                           |                              |         |           | DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10                                                              |         |          |          |
|                       |      |        |        | FR-TO FROM TO CSI (LC)                                                                                             |                              |         |           | COMP=1.10 SHEAR=1.10 TENS=1.10                                                                      |         |          |          |
|                       |      |        |        | A-B 0 / 57 -129.7 -129.7 0.18 (1) 10.00                                                                            |                              |         |           | COMPANION LIVE LOAD FACTOR = 1.00                                                                   |         |          |          |
|                       |      |        |        | B-C 0 / 38 -129.7 -129.7 0.31 (1) 10.00                                                                            |                              |         |           | AUTOSOLVE HEELS OFF                                                                                 |         |          |          |
|                       |      |        |        | C-D -1558 / 0 -129.7 -129.7 0.37 (1) 4.86                                                                          |                              |         |           | TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.   |         |          |          |
|                       |      |        |        | D-E -1172 / 0 -129.7 -129.7 0.18 (1) 5.67                                                                          |                              |         |           | NAIL VALUES                                                                                         |         |          |          |
|                       |      |        |        | E-F -1200 / 0 -129.7 -129.7 0.18 (1) 5.62                                                                          |                              |         |           | PLATE GRIP(DRY) SHEAR SECTION                                                                       |         |          |          |
|                       |      |        |        | F-G -1588 / 0 -129.7 -129.7 0.33 (1) 4.88                                                                          |                              |         |           | (PSI) (PLI) (PLI)                                                                                   |         |          |          |
|                       |      |        |        | G-H 0 / 55 -129.7 -129.7 0.28 (1) 10.00                                                                            |                              |         |           | MAX MIN MAX MIN MAX MIN                                                                             |         |          |          |
|                       |      |        |        | H-I -370 / 0 0.0 0.0 0.04 (1) 7.81                                                                                 |                              |         |           | MT20 618 354 1667 788 1987 1666                                                                     |         |          |          |
|                       |      |        |        | J-H -147 / 0 0.0 0.0 0.02 (1) 7.81                                                                                 |                              |         |           | PLATE PLACEMENT TOL = 0.250 inches                                                                  |         |          |          |
|                       |      |        |        | N-M 0 / 1278 -38.5 -38.5 0.32 (2) 10.00                                                                            |                              |         |           | PLATE ROTATION TOL = 5.0 Deg.                                                                       |         |          |          |
|                       |      |        |        | M-L 0 / 1270 -38.5 -38.5 0.42 (1) 10.00                                                                            |                              |         |           | JSI GRIP= 0.86 (G) (INPUT = 0.80 )                                                                  |         |          |          |
|                       |      |        |        | L-K 0 / 1270 -38.5 -38.5 0.42 (1) 10.00                                                                            |                              |         |           | JSI METAL= 0.86 (G) (INPUT = 1.00 )                                                                 |         |          |          |
|                       |      |        |        | K-J 0 / 1161 -38.5 -38.5 0.74 (1) 10.00                                                                            |                              |         |           |                                                                                                     |         |          |          |
|                       |      |        |        | J-I 0 / 0 -38.5 -38.5 0.38 (1) 10.00                                                                               |                              |         |           |                                                                                                     |         |          |          |

DRWG NO. TAM 11805189  
STRUCTURAL  
COMPONENT ONLY

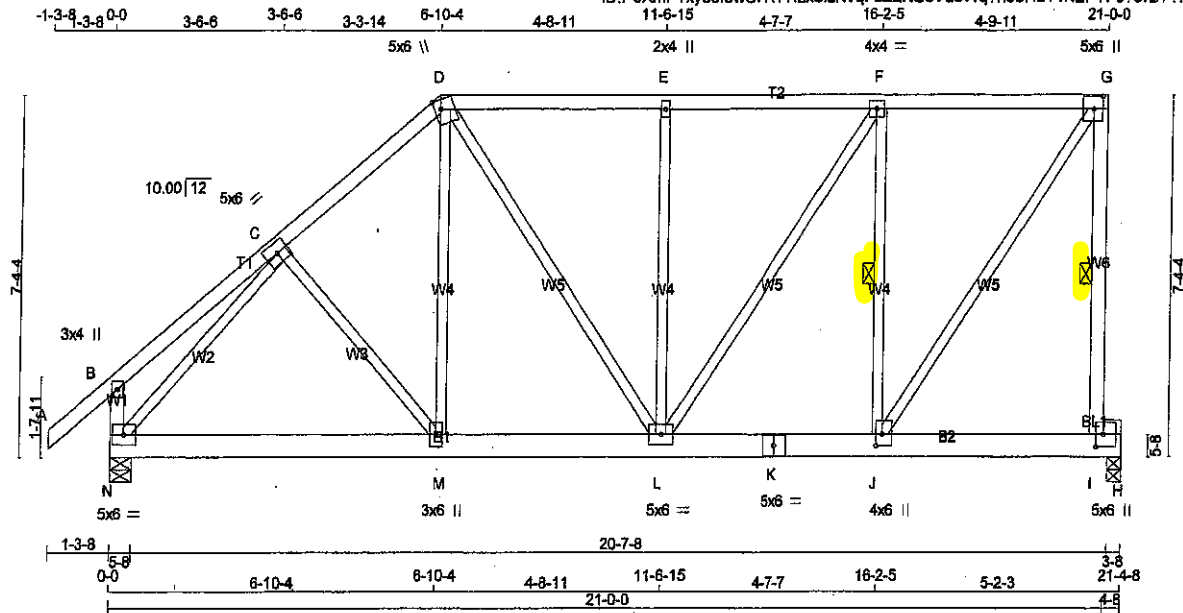


| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T136       | 2        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 120 = 239 lb

| LUMBER            |        |      |        | DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |          |                         |                                 | DESIGN CRITERIA |          |                  |          |
|-------------------|--------|------|--------|-----------------------------------------------------------------------------------------------|----------|-------------------------|---------------------------------|-----------------|----------|------------------|----------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR.                                                                                        | BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG       | REQD BRG | SPECIFIED LOADS: |          |
| A - D             | 2x4    | DRY  | No.2   | SPF                                                                                           | JT       | VERT                    | DOWN                            | UPLIFT          | IN-SX    | TOP CH. LL =     | 38.2 PSF |
| D - G             | 2x4    | DRY  | No.2   | SPF                                                                                           | N        | HORIZ                   | 0                               | 0               | 5-8      | DL =             | 8.0 PSF  |
| I - G             | 2x4    | DRY  | No.2   | SPF                                                                                           | H        | 0                       | 1749                            | 0               | 3-8      | BOT CH. LL =     | 10.5 PSF |
| N - B             | 2x4    | DRY  | No.2   | SPF                                                                                           |          |                         |                                 |                 |          | DL =             | 7.0 PSF  |
| N - K             | 2x6    | DRY  | No.2   | SPF                                                                                           |          |                         |                                 |                 |          | TOTAL LOAD =     | 61.7 PSF |
| K - H             | 2x6    | DRY  | No.2   | SPF                                                                                           |          |                         |                                 |                 |          |                  |          |

|                |     |     |      |     |                             |         |                               |           |       |         |       |  |                                                        |  |                |  |  |  |
|----------------|-----|-----|------|-----|-----------------------------|---------|-------------------------------|-----------|-------|---------|-------|--|--------------------------------------------------------|--|----------------|--|--|--|
| BEARING BLOCKS |     |     |      |     | <u>UNFACTORED REACTIONS</u> |         |                               |           |       |         |       |  | <u>SPACING = 24.0</u>                                  |  | <u>IN. C/C</u> |  |  |  |
| BL1            | 2x4 | DRY | No.2 | SPF | 1ST LOASE                   |         | MAX./MIN. COMPONENT REACTIONS |           |       |         |       |  | LOADING IN FLAT SECTION BASED ON A<br>SLOPE OF 6.00/12 |  |                |  |  |  |
|                |     |     |      | JT  | COMBINED                    | SNOW    | LIVE                          | PERM.LIVE | WIND  | DEAD    | SOIL  |  |                                                        |  |                |  |  |  |
|                |     |     |      | N   | 1441                        | 923 / 0 | 224 / 0                       | 0 / 0     | 0 / 0 | 234 / 0 | 0 / 0 |  |                                                        |  |                |  |  |  |
|                |     |     |      | H   | 1286                        | 789 / 0 | 224 / 0                       | 0 / 0     | 0 / 0 | 273 / 0 | 0 / 0 |  |                                                        |  |                |  |  |  |
|                |     |     |      |     |                             |         |                               |           |       |         |       |  |                                                        |  |                |  |  |  |
| ALL WEBS       |     |     |      |     | 2x3                         | DRY     | No.2                          | SPF       |       |         |       |  |                                                        |  |                |  |  |  |
| EXCEPT         |     |     |      |     |                             |         |                               |           |       |         |       |  |                                                        |  |                |  |  |  |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.89 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.  
1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-I, F-J.  
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

<

COMPANION LIVE LOAD FACTOR = 1.00

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 786 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (G) (INPUT = 0.90 )  
JSI METAL= 0.51 (J) (INPUT = 1.00 )

DWG NO. TAM 11805189  
STRUCTURAL  
COMPONENT ONLY

DWG NO. TAM 11805790  
STRUCTURAL  
COMPONENT ONLY

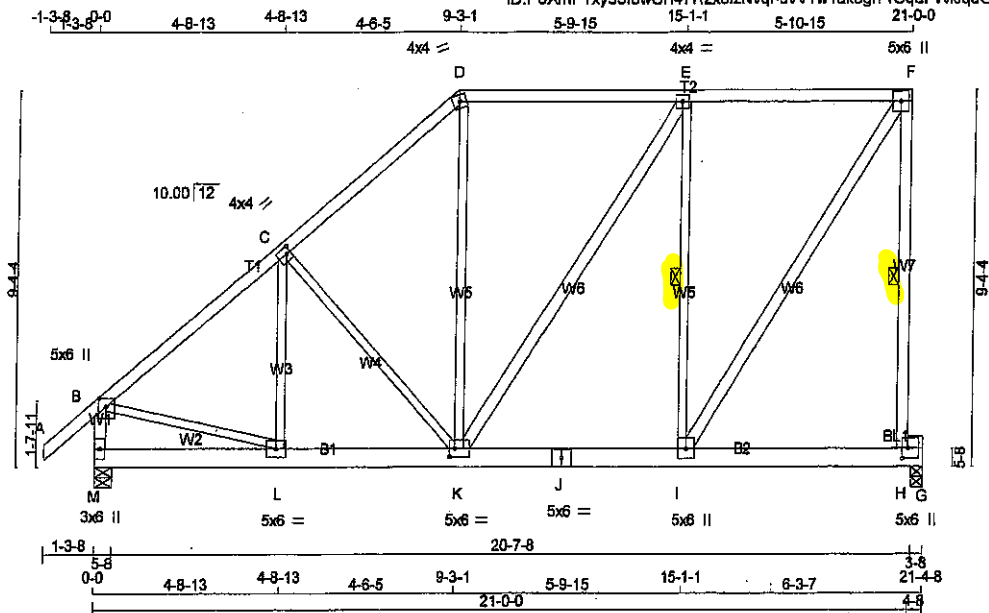


|                           |                           |                      |                 |                          |          |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|
| JOB NAME<br><b>297078</b> | TRUSS NAME<br><b>T138</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 129 = 258 lb

| LUMBER                |        |      |        |
|-----------------------|--------|------|--------|
| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER |
| A - D                 | 2x4    | DRY  | No.2   |
| D - F                 | 2x4    | DRY  | No.2   |
| H - F                 | 2x4    | DRY  | No.2   |
| M - B                 | 2x4    | DRY  | No.2   |
| M - J                 | 2x6    | DRY  | No.2   |
| J - G                 | 2x6    | DRY  | No.2   |
| BEARING BLOCKS        |        |      |        |
| BL1                   | 2x4    | DRY  | No.2   |
| ALL WEBS              |        |      |        |
| EXCEPT                | 2x3    | DRY  | No.2   |
| K - E                 | 2x4    | DRY  | No.2   |
| I - F                 | 2x4    | DRY  | No.2   |
| DRY: SEASONED LUMBER. |        |      |        |

| PLATES (table is in inches) |        |        |     |     |           |
|-----------------------------|--------|--------|-----|-----|-----------|
| JT                          | TYPE   | PLATES | W   | LEN | X         |
| B                           | TMVW+p | MT20   | 5.0 | 6.0 | 2.50 2.25 |
| 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                           | TMVW+p | MT20   | 5.0 | 6.0 |           |
| H                           | BMVW-t | MT20   | 5.0 | 6.0 | 3.00 1.75 |
| I                           | BMVW-t | MT20   | 5.0 | 6.0 |           |
| J                           | BS-t   | MT20   | 5.0 | 6.0 |           |
| K                           | BMVW-t | MT20   | 5.0 | 6.0 | 2.50 1.50 |
| L                           | BMVW-t | MT20   | 5.0 | 6.0 |           |
| M                           | BMVW+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 | REQD BRG |
|----------|------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT | HORZ                    | DOWN                            | HORZ      | UPLIFT   |
| M        | 1976 | 0                       | 1976                            | 0         | 5-8      |
| G        | 1749 | 0                       | 1749                            | 0         | 3-8      |

| UNFACTORED REACTIONS |          | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS |
|----------------------|----------|-----------|------------------------------|
| JT                   | COMBINED | SNOW      | LIVE                         |
| M                    | 1441     | 923 / 0   | 224 / 0                      |
| G                    | 1288     | 789 / 0   | 224 / 0                      |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.39 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-H, E-I.  
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) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           | FR-TO |                           |
| A-B    | 0 / 57                    | L-C   | -147 / 121                |
| B-C    | -1720 / 0                 | C-K   | -463 / 0                  |
| C-D    | -1413 / 0                 | K-D   | 0 / 376                   |
| D-E    | -1051 / 0                 | K-E   | 0 / 119                   |
| E-F    | -987 / 0                  | I-E   | -1043 / 0                 |
| F-H    | -1836 / 0                 | I-F   | 0 / 1849                  |
| H-B    | -1895 / 0                 | B-L   | 0 / 1400                  |
| M-L    | 0 / 0                     |       |                           |
| L-K    | 0 / 1358                  |       |                           |
| K-J    | 0 / 987                   |       |                           |
| J-I    | 0 / 987                   |       |                           |
| I-H    | -30 / 0                   |       |                           |
| H-G    | 0 / 0                     |       |                           |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 38.2 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 PSF

**SPACING = 240 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, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.71")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")  
ALLOWABLE DEFL.(TL) = L/360 (0.71")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.81/1.00 (D-E:1), BC=0.61/1.00 (H-I:1), WB=0.58/1.00 (E-I:1), SB=0.64/1.00 (G-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 = 1.00

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 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)  
JSI METAL = 0.38 (I) (INPUT = 1.00)



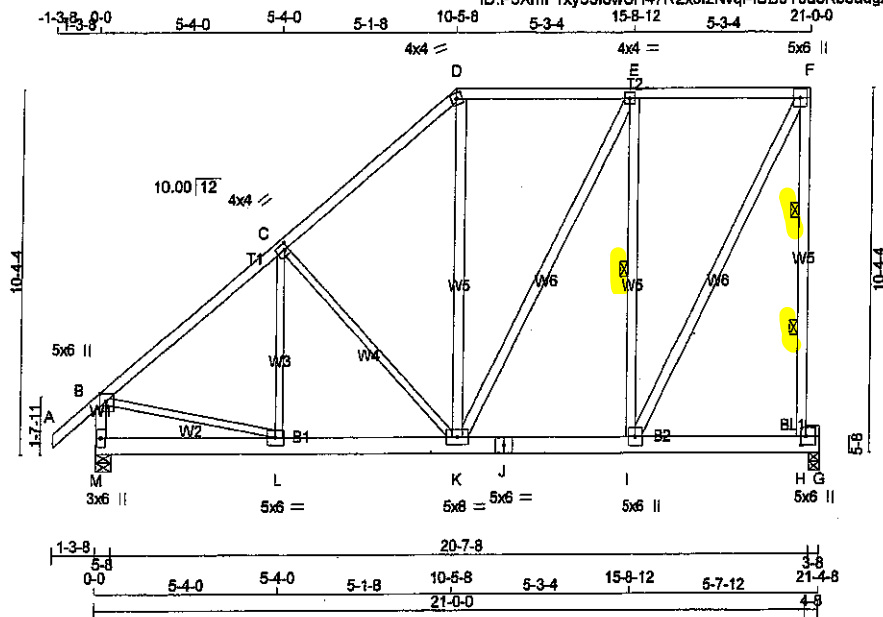
DRWG NO. TAM 17405791  
STRUCTURAL  
COMPONENT ONLY



| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T139       | 2        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 Mitek Industries, Inc. Mon Aug 20 09:48:32 2018 Page 1  
ID: P5XmF1xy53l8wCH47R2x3fzNvqf-IUB9Y3dcRb5augZCxfJfSWutC1VAZIDFEJUJaYym7JD



Scale = 1:62.7

TOTAL WEIGHT = 2 X 141 = 283 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    |        |
| H - F  | 2x4               | DRY    | No.2 | SPF    |        |
| M - B  | 2x4               | DRY    | No.2 | SPF    |        |
| M - J  | 2x6               | DRY    | No.2 | SPF    |        |
| J - G  | 2x6               | DRY    | No.2 | SPF    |        |

| BEARING BLOCKS | BL1    | 2x4 | DRY  | No.2 | SPF |
|----------------|--------|-----|------|------|-----|
| ALL WEBS       | EXCEPT | 2x4 | DRY  | No.2 | SPF |
| L - C          | 2x3    | DRY | No.2 | SPF  |     |
| C - K          | 2x3    | DRY | No.2 | SPF  |     |
| B - L          | 2x3    | DRY | No.2 | SPF  |     |

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW+p | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| C  | TMVW-i | 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  | TMVW+p | MT20   | 5.0 | 6.0 |      |      |
| H  | BMVW+p | MT20   | 5.0 | 6.0 | 3.00 | 1.75 |
| I  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| J  | BS-t   | MT20   | 5.0 | 6.0 |      |      |
| K  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| L  | BMVW-i | MT20   | 5.0 | 6.0 |      |      |
| M  | BMVW+p | MT20   | 3.0 | 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           | DOWN             | UPLIFT | IN-SX |
| M        | 1976           | 0                | 0      | 5-8   |
| G        | 1749           | 0                | 0      | 3-8   |

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |         |           |       |         |       |
|-----------|----------|-------------------------------|---------|-----------|-------|---------|-------|
| JT        | COMBINED | SNOW                          | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |
| M         | 1441     | 923 / 0                       | 224 / 0 | 0 / 0     | 0 / 0 | 294 / 0 | 0 / 0 |
| G         | 1286     | 789 / 0                       | 224 / 0 | 0 / 0     | 0 / 0 | 273 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.09 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.

2 LATERAL BRACE(S) AT 1/3 LENGTH OF F-H.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-L.

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 | MEMB.     | MAX. FACTORED | FORCE  | VERT. LOAD | LC1 | MAX   | MAX | UNBRAC | WEBS  | MEMB.     | MAX. FACTORED | FORCE | MAX  |
|--------|-----------|---------------|--------|------------|-----|-------|-----|--------|-------|-----------|---------------|-------|------|
|        |           |               | (LBS)  | (PLF)      |     | (LC)  |     |        |       |           |               | (LBS) | (LC) |
| FR-TO  |           |               |        |            |     |       |     |        | FR-TO |           |               |       |      |
| A-B    | 0 / 57    | -129.7        | -129.7 | 0.18       | (1) | 10.00 |     |        | L-C   | -79 / 176 | 0.04          | (1)   |      |
| B-C    | -1717 / 0 | -129.7        | -129.7 | 0.76       | (1) | 4.09  |     |        | C-K   | -591 / 0  | 0.70          | (1)   |      |
| C-D    | -1302 / 0 | -129.7        | -129.7 | 0.69       | (1) | 4.63  |     |        | K-D   | 0 / 310   | 0.05          | (2)   |      |
| D-E    | -960 / 0  | -129.7        | -129.7 | 0.64       | (1) | 5.23  |     |        | K-E   | 0 / 304   | 0.05          | (1)   |      |
| E-F    | -822 / 0  | -129.7        | -129.7 | 0.63       | (1) | 5.57  |     |        | E-H   | -1115 / 0 | 0.57          | (1)   |      |
| F-G    | -1656 / 0 | 0.0           | 0.0    | 0.44       | (1) | 4.70  |     |        | H-I   | 0 / 1818  | 0.29          | (1)   |      |
| G-H    | -1688 / 0 | 0.0           | 0.0    | 0.20       | (1) | 5.84  |     |        | B-L   | 0 / 1394  | 0.31          | (1)   |      |
| M-L    | 0 / 0     | -38.5         | -38.5  | 0.09       | (3) | 10.00 |     |        |       |           |               |       |      |
| L-K    | 0 / 1359  | -38.5         | -38.5  | 0.22       | (1) | 10.00 |     |        |       |           |               |       |      |
| K-J    | 0 / 822   | -38.5         | -38.5  | 0.30       | (1) | 10.00 |     |        |       |           |               |       |      |
| J-I    | 0 / 822   | -38.5         | -38.5  | 0.30       | (1) | 10.00 |     |        |       |           |               |       |      |
| I-H    | -27 / 0   | -38.5         | -38.5  | 0.61       | (1) | 6.25  |     |        |       |           |               |       |      |
| H-G    | 0 / 0     | -38.5         | -38.5  | 0.39       | (1) | 10.00 |     |        |       |           |               |       |      |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 38.2 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.71")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")  
ALLOWABLE DEFL.(TL) = L/360 (0.71")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.76/1.00 (B-C-1), SC=0.61/1.00 (H-I-1), WB=0.70/0.90 (C-K-1), SS=0.64/1.00 (G-H-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 = 1.00

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

#### NAIL VALUES

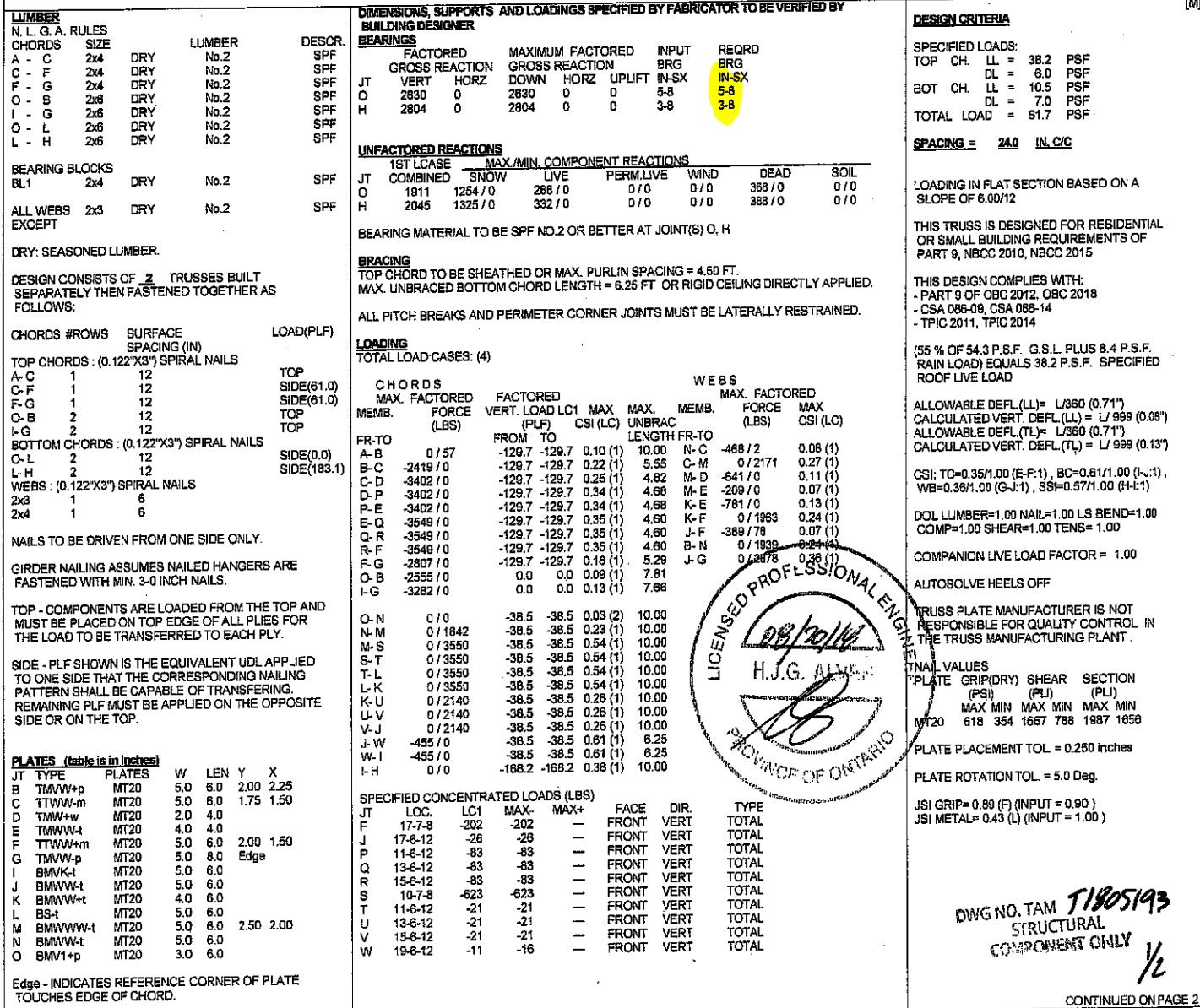
PLATE GRIP(DRY) SHEAR SECTION (PS) (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90)  
JSI METAL= 0.37 (F) (INPUT = 1.00)

DWG NO. TAM 11005192  
STRUCTURAL  
COMPONENT ONLY





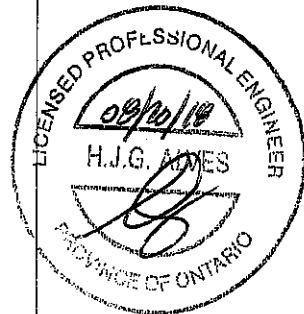
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T140       | 1        | 2   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MiTek Industries, Inc. Mon Aug 20 09:48:36 2018 Page 2  
ID: P5XmF1xy53I8wCH47R2x3fzNvgf-AFQgOQg7Vqb0NHszAUKfcM2fzes?VaX9xSxJym?I8

**HANGERS NOTES**

1) SPECIAL HANGER(S) OR CONNECTION(S)  
REQUIRED TO SUPPORT CONCENTRATED  
LOAD(S) 121.6 lbs FACTORED DOWN AT  
11-6-12, 121.6 lbs FACTORED DOWN AT  
13-6-12, AND 121.6 lbs FACTORED DOWN AT  
15-6-12, AND 292.9 lbs FACTORED DOWN AT  
17-7-8 ON TOP CHORD, AND 872.4 lbs  
FACTORED DOWN AT 10-7-8, 30.9 lbs  
FACTORED DOWN AT 11-6-12, 30.9 lbs  
FACTORED DOWN AT 13-6-12, 30.9 lbs  
FACTORED DOWN AT 15-6-12, AND 38.0 lbs  
FACTORED DOWN AT 17-6-12, AND 23.7 lbs  
FACTORED DOWN AT 19-6-12 ON BOTTOM  
CHORD. DESIGN FOR UNSPECIFIED  
CONNECTION(S) IS DELEGATED TO THE  
BUILDING DESIGNER.



DWG NO. TAM 1105193  
STRUCTURAL  
COMPONENT ONLY 3/2

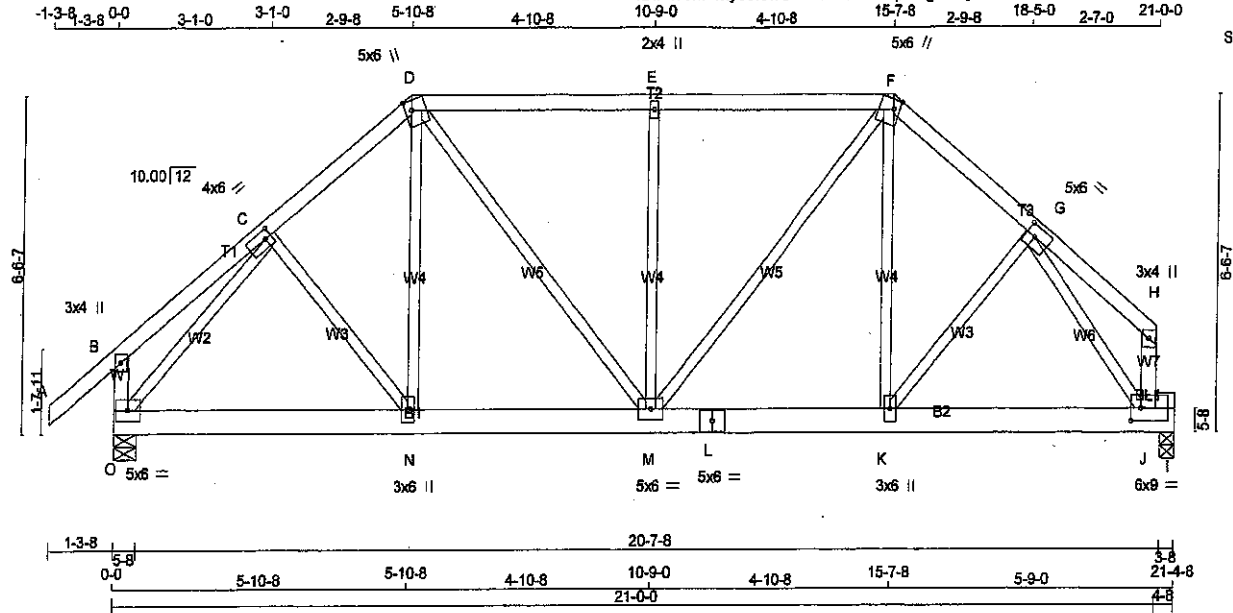


| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T141       | 1        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 Mitek Industries, Inc. Mon Aug 20 09:48:40 2018 Page 1

ID: P5Xmf1xy53l8wCH47R2x3fzNvqf-31gBDoidY25RrvAkPKPbnCDIWFC3RQLQ4ZQ8t4ym?j5



Scale = 1:42.7

TOTAL WEIGHT = 112 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 - H             | 2x4    | DRY  | No.2   | SPF    |
| O - B             | 2x4    | DRY  | No.2   | SPF    |
| J - H             | 2x4    | DRY  | No.2   | SPF    |
| O - L             | 2x6    | DRY  | No.2   | SPF    |
| L - I             | 2x6    | DRY  | No.2   | SPF    |

|                 |     |     |      |     |
|-----------------|-----|-----|------|-----|
| BEARING BLOCKS  |     |     |      |     |
| BL1             | 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  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| C  | TMVW+1 | MT20   | 4.0 | 6.0 | 2.00 | 1.50 |
| D  | TTVW+m | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| E  | TMV+w  | MT20   | 2.0 | 4.0 |      |      |
| F  | TTVW+m | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| G  | TMVW+1 | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| H  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| J  | BMVW+1 | MT20   | 6.0 | 9.0 | 3.00 | 2.50 |
| K  | BMVW+1 | MT20   | 3.0 | 6.0 |      |      |
| L  | BS+1   | MT20   | 5.0 | 6.0 |      |      |
| M  | BMVW+1 | MT20   | 5.0 | 6.0 |      |      |
| N  | BMVW+1 | MT20   | 3.0 | 6.0 |      |      |
| O  | BMVW+1 | MT20   | 5.0 | 6.0 |      |      |

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

| BEARINGS |      | FACTORED |      | GROSS REACTION |        | MAXIMUM FACTORED |       | INPUT |       | RECORD |       |
|----------|------|----------|------|----------------|--------|------------------|-------|-------|-------|--------|-------|
| JT       | VERT | HORZ     | DOWN | HORZ           | UPLIFT | BRG              | IN-SX | BRG   | IN-SX | BRG    | IN-SX |
| I        | 1749 | 0        | 1749 | 0              | 0      | 3-8              |       | 3-8   |       |        |       |
| O        | 1976 | 0        | 1976 | 0              | 0      | 5-8              |       | 5-8   |       |        |       |

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN. COMPONENT REACTIONS | SNOW    | LIVE  | PERM. LIVE | WIND    | DEAD  | SOIL  |
|----|----------|------------------------------|---------|-------|------------|---------|-------|-------|
| I  | 1288     | 789 / 0                      | 224 / 0 | 0 / 0 | 0 / 0      | 273 / 0 | 0 / 0 | 0 / 0 |
| O  | 1441     | 923 / 0                      | 224 / 0 | 0 / 0 | 0 / 0      | 294 / 0 | 0 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.43 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 |       | MAX. FACTORED |                    |
| MEMB.         | FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MAX. UNBRAC   | MEMB. | FORCE (LBS)   | MAX CSI (LC)       |
| FR-TO         |             | FROM TO          |                  | LENGTH        | FR-TO |               |                    |
| A-B           | 0 / 57      | -129.7           | -129.7           | 0.16 (1)      | 10.00 | N-D           | 0 / 270 0.06 (2)   |
| B-C           | 0 / 25      | -129.7           | -129.7           | 0.16 (1)      | 10.00 | D-M           | 0 / 550 0.12 (1)   |
| C-D           | -1677 / 0   | -129.7           | -129.7           | 0.20 (1)      | 4.93  | M-E           | -788 / 0 0.50 (1)  |
| D-E           | -1610 / 0   | -129.7           | -129.7           | 0.57 (1)      | 4.43  | M-F           | 0 / 520 0.12 (1)   |
| E-F           | -1610 / 0   | -129.7           | -129.7           | 0.57 (1)      | 4.43  | K-F           | 0 / 294 0.07 (2)   |
| F-G           | -1697 / 0   | -129.7           | -129.7           | 0.17 (1)      | 4.94  | C-N           | 0 / 98 0.02 (3)    |
| G-H           | 0 / 38      | -129.7           | -129.7           | 0.14 (1)      | 10.00 | O-C           | -1968 / 0 0.69 (1) |
| O-B           | -332 / 0    | 0.0              | 0.0              | 0.03 (1)      | 7.81  | K-G           | 0 / 312 0.07 (1)   |
| J-H           | -112 / 0    | 0.0              | 0.0              | 0.01 (1)      | 7.81  | G-J           | -2062 / 0 0.63 (1) |
|               |             |                  |                  |               |       |               |                    |
| O-N           | 0 / 1242    | -38.5            | -38.5            | 0.23 (1)      | 10.00 |               |                    |
| N-M           | 0 / 1268    | -38.5            | -38.5            | 0.23 (2)      | 10.00 |               |                    |
| M-L           | 0 / 1287    | -38.5            | -38.5            | 0.38 (1)      | 10.00 |               |                    |
| L-K           | 0 / 1287    | -38.5            | -38.5            | 0.38 (1)      | 10.00 |               |                    |
| K-J           | 0 / 1084    | -38.5            | -38.5            | 0.73 (1)      | 10.00 |               |                    |
| J-I           | 0 / 0       | -38.5            | -38.5            | 0.38 (1)      | 10.00 |               |                    |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|              |               |
|--------------|---------------|
| TOP CH.      | LL = 38.2 PSF |
| DL = 6.0 PSF |               |
| BOT CH.      | LL = 10.5 PSF |
| DL = 7.0 PSF |               |
| TOTAL LOAD   | = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.71")  
CALCULATED VERT. DEFL.(LL)= L/ 998 (0.08")  
ALLOWABLE DEFL.(TL)= L/360 (0.71")  
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.13")

CSI: TC=0.57/1.00 (E-F:1), BC=0.73/1.00 (J-K:1),  
WB=0.69/1.00 (C-D:1), SS=0.64/1.00 (I-J: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 = 1.00

AUTOSOLVE HEELS OFF

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

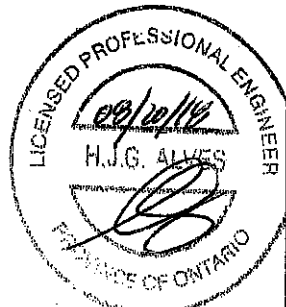
#### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR   | SECTION |
|-----------------|---------|---------|
| (PSI)           | (PLI)   | (PLI)   |
| MAX MIN         | MAX MIN | MAX MIN |
| MT20            | 618     | 354     |
| 1667            | 788     | 1987    |
| 1656            |         |         |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP= 0.88 (C) (INPUT = 0.90)  
SI METAL= 0.49 (G) (INPUT = 1.00)



DRWG NO. TAM 11805194  
STRUCTURAL  
COMPONENT ONLY

DWG NO. TAM 7705795  
STRUCTURAL  
COMPONENT ONLY

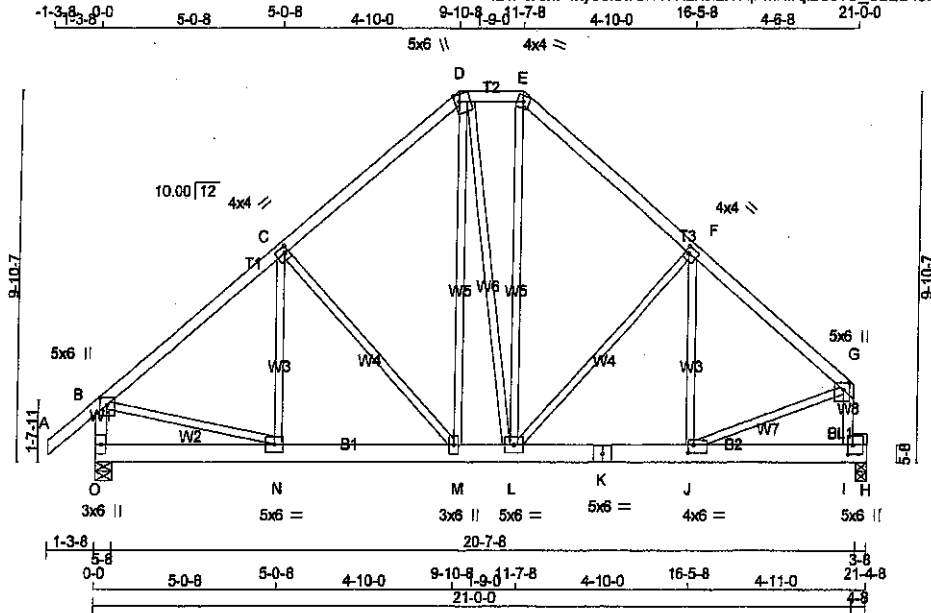


| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T143       | 1        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

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ID: P5Xmf1xy5318wCH47R2x3fzNvqf-MNbgIB00vC\_SBzC4J1tEZh7SL4dhaWJSh8c0cAym7



TOTAL WEIGHT = 124 lb

| LUMBER            |        |      |        |
|-------------------|--------|------|--------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
| A - D             | 2x4    | DRY  | No.2   |
| D - E             | 2x4    | DRY  | No.2   |
| E - G             | 2x4    | DRY  | No.2   |
| O - B             | 2x4    | DRY  | No.2   |
| I - G             | 2x4    | DRY  | No.2   |
| O - K             | 2x6    | DRY  | No.2   |
| K - H             | 2x6    | DRY  | No.2   |

| BEARING BLOCKS |     |     |      |
|----------------|-----|-----|------|
| BL1            | 2x4 | DRY | No.2 |

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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |        |        |     |               |
|-----------------------------|--------|--------|-----|---------------|
| JT                          | TYPE   | PLATES | W   | LEN Y X       |
| B                           | TMVW+p | MT20   | 5.0 | 6.0 2.50 2.25 |
| C                           | TMVW-l | MT20   | 4.0 | 4.0 2.00 1.25 |
| D                           | TTWW+m | MT20   | 5.0 | 6.0 2.25 1.50 |
| E                           | TTW-m  | MT20   | 4.0 | 4.0           |
| F                           | TMVW-l | MT20   | 4.0 | 4.0 2.00 1.25 |
| G                           | TMVW+p | MT20   | 5.0 | 6.0 2.25 2.00 |
| I                           | BMVK+p | MT20   | 5.0 | 6.0 3.00 1.75 |
| J                           | BMVW-l | MT20   | 4.0 | 6.0 2.50 1.75 |
| K                           | BS-l   | MT20   | 5.0 | 6.0           |
| L                           | BMVW+l | MT20   | 5.0 | 6.0           |
| M                           | BMVW+l | MT20   | 3.0 | 6.0           |
| N                           | BMVW-l | MT20   | 5.0 | 6.0           |
| O                           | 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 | REQRD BRG |        |
| JT       | VERT                    | HORZ                            | DOWN      | HORZ      | UPLIFT |
| O        | 1976                    | 0                               | 1976      | 0         | 5-8    |
| H        | 1749                    | 0                               | 1749      | 0         | 3-8    |

| UNFACTORED REACTIONS |           |         |                     |           |       |         |
|----------------------|-----------|---------|---------------------|-----------|-------|---------|
| JT                   | 1ST LCASE | MAX/MIN | COMPONENT REACTIONS |           |       |         |
| O                    | COMBINED  | SNOW    | LIVE                | PERM.LIVE | WIND  | DEAD    |
| H                    | 1441      | 923 / 0 | 224 / 0             | 0 / 0     | 0 / 0 | 294 / 0 |
|                      | 1286      | 786 / 0 | 224 / 0             | 0 / 0     | 0 / 0 | 273 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.25 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) | MAX. UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) |          |
| FR-TO  |                           |                           |                           | FR-TO |                           |                           |          |
| A-B    | 0 / 57                    | -129.7 -129.7             | 0.18 (1)                  | 10.00 | N-C                       | -112 / 160                | 0.06 (1) |
| B-C    | -1720 / 0                 | -129.7 -129.7             | 0.68 (1)                  | 4.25  | C-M                       | -529 / 0                  | 0.54 (1) |
| C-D    | -1358 / 0                 | -129.7 -129.7             | 0.61 (1)                  | 4.71  | M-D                       | 0 / 479                   | 0.11 (1) |
| D-E    | -1010 / 0                 | -129.7 -129.7             | 0.08 (1)                  | 6.14  | D-L                       | 0 / 20                    | 0.00 (3) |
| E-F    | -1358 / 0                 | -129.7 -129.7             | 0.55 (1)                  | 4.63  | L-E                       | 0 / 486                   | 0.11 (1) |
| F-G    | -1724 / 0                 | -129.7 -129.7             | 0.58 (1)                  | 4.38  | L-F                       | -530 / 0                  | 0.54 (1) |
| O-B    | -1892 / 0                 | 0.0 0.0                   | 0.20 (1)                  | 6.10  | J-F                       | -70 / 158                 | 0.04 (3) |
| I-G    | -1913 / 0                 | 0.0 0.0                   | 0.21 (1)                  | 6.07  | B-N                       | 0 / 1398                  | 0.31 (1) |
|        |                           |                           |                           |       | J-G                       | 0 / 1627                  | 0.37 (1) |
| O-N    | 0 / 0                     | -38.5 -38.5               | 0.08 (3)                  | 10.00 |                           |                           |          |
| N-M    | 0 / 1358                  | -38.5 -38.5               | 0.22 (1)                  | 10.00 |                           |                           |          |
| M-L    | 0 / 1007                  | -38.5 -38.5               | 0.14 (1)                  | 10.00 |                           |                           |          |
| L-K    | 0 / 1361                  | -38.5 -38.5               | 0.32 (1)                  | 10.00 |                           |                           |          |
| K-J    | 0 / 1361                  | -38.5 -38.5               | 0.32 (1)                  | 10.00 |                           |                           |          |
| J-I    | -170 / 0                  | -38.5 -38.5               | 0.61 (1)                  | 6.25  |                           |                           |          |
| I-H    | 0 / 0                     | -38.5 -38.5               | 0.38 (1)                  | 10.00 |                           |                           |          |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 38.2 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 PSF

**SPACING = 24.0 IN/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, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2012, CBC 2018  
- CSA 088-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.71")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")  
ALLOWABLE DEFL.(TL) = L/360 (0.71")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.66/1.00 (B-C-1), BC=0.61/1.00 (I-J-1), WB=0.54/1.00 (F-L-1), SS=0.64/1.00 (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 = 1.00

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  |
| MT20        | 618       | 354   | 1667    | 798 | 1987 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (J) (INPUT = 0.90)  
JSI METAL= 0.38 (J) (INPUT = 1.00)

DWG NO. TAM 11805196  
STRUCTURAL  
COMPONENT ONLY

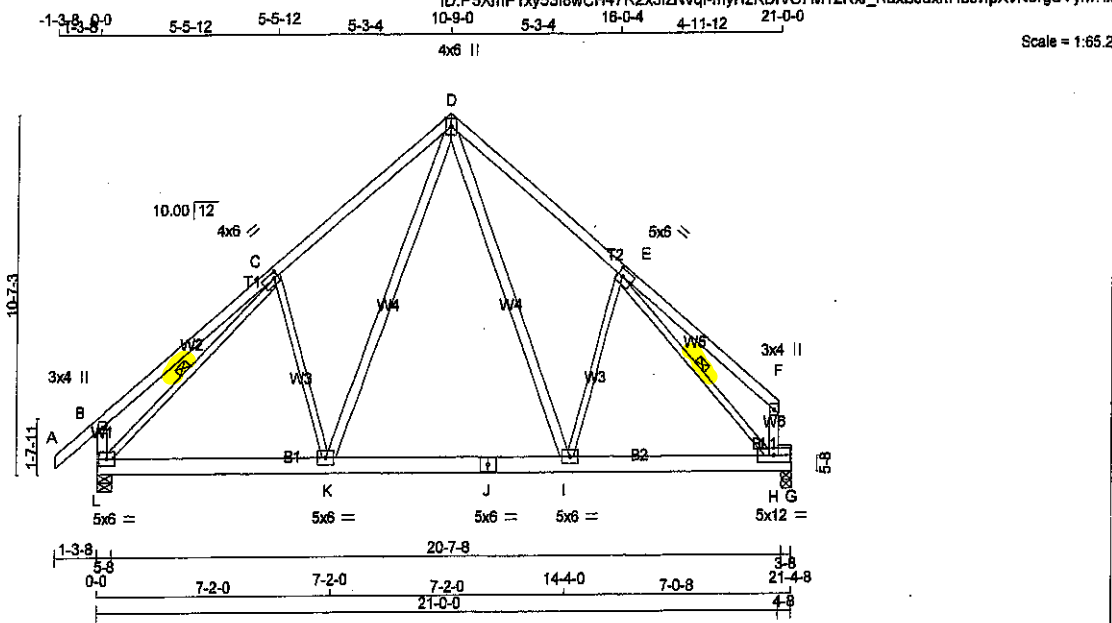


| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T144       | 3        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

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ID: P5Xmf1xy53l8wCH47R2x3fzNvqf-myHzKDrVC7M12Rd\_RaxBJdxnHc0npXvN8rgCVym?b



TOTAL WEIGHT = 3 X 120 = 360 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    |        |
| L - B  | 2x4               | DRY    | No.2 | SPF    |        |
| H - F  | 2x4               | DRY    | No.2 | SPF    |        |
| L - J  | 2x6               | DRY    | No.2 | SPF    |        |
| J - G  | 2x6               | DRY    | No.2 | SPF    |        |

| BEARING BLOCKS | BL1 | 2x4 | DRY | No.2 | SPF |
|----------------|-----|-----|-----|------|-----|
|----------------|-----|-----|-----|------|-----|

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

| K - D | 2x4 | DRY | No.2 | SPF |
|-------|-----|-----|------|-----|
| D - I | 2x4 | DRY | No.2 | SPF |

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-t  | MT20 | 4.0    | 6.0  | 2.00 | 1.50 |   |
| D                           | TTWW+p  | MT20 | 4.0    | 6.0  | Edge |      |   |
| E                           | TMVW-t  | MT20 | 5.0    | 6.0  | 2.50 | 2.00 |   |
| F                           | TMV+p   | MT20 | 3.0    | 4.0  |      |      |   |
| H                           | BMVWk-t | MT20 | 5.0    | 12.0 |      |      |   |
| I                           | BMVW-t  | MT20 | 5.0    | 6.0  |      |      |   |
| J                           | BS-t    | MT20 | 5.0    | 6.0  |      |      |   |
| K                           | BMVW-t  | MT20 | 5.0    | 6.0  |      |      |   |
| L                           | BMVW-t  | MT20 | 5.0    | 6.0  |      |      |   |

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  |       | REQD |       |
|----------|------|----------------|------|------------------|------|--------|-------|------|-------|
| JT       | VERT | GROSS REACTION | HORZ | GROSS REACTION   | HORZ | UPLIFT | IN-SX | BRG  | IN-SX |
| L        | 1976 | 0              | 1976 | 0                | 0    | 5-8    | 5-8   |      |       |
| G        | 1749 | 0              | 1749 | 0                | 0    | 3-8    | 3-8   |      |       |

| UNFACTORED REACTIONS |          |                               |         |            |       |         |       |
|----------------------|----------|-------------------------------|---------|------------|-------|---------|-------|
|                      | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |         |            |       |         |       |
| JT                   | COMBINED | SNOW                          | LIVE    | PERM. LIVE | WIND  | DEAD    | SOIL  |
| L                    | 1441     | 923 / 0                       | 224 / 0 | 0 / 0      | 0 / 0 | 294 / 0 | 0 / 0 |
| G                    | 1286     | 789 / 0                       | 224 / 0 | 0 / 0      | 0 / 0 | 273 / 0 | 0 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.15 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 C-L, E-H.

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        |             | MEMB.         |             | WEBS          |             |
|---------------|-------------|---------------|-------------|---------------|-------------|
| MAX. FACTORED | FORCE (LBS) | MAX. FACTORED | FORCE (LBS) | MAX. FACTORED | FORCE (LBS) |
| FR-TO         |             | FR-TO         |             | FR-TO         |             |
| A-B           | 0 / 57      | FR-TO         |             | C-K           | -465 / 10   |
| B-C           | 0 / 54      | FR-TO         |             | K-D           | 0 / 748     |
| C-D           | -1608 / 0   | FR-TO         |             | D-I           | 0 / 807     |
| D-E           | -1629 / 0   | FR-TO         |             | I-E           | -275 / 69   |
| E-F           | 0 / 79      | FR-TO         |             | E-C           | -1943 / 0   |
| L-B           | -441 / 0    | FR-TO         |             | E-H           | -2063 / 0   |
| H-F           | -213 / 0    | FR-TO         |             |               |             |

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

**DESIGN CRITERIA**

| SPECIFIED LOADS:      |               |
|-----------------------|---------------|
| TOP CH.               | LL = 38.2 PSF |
|                       | DL = 6.0 PSF  |
| BOT CH.               | LL = 10.5 PSF |
|                       | DL = 7.0 PSF  |
| TOTAL LOAD = 61.7 PSF |               |

**SPACING = 240 IN. C/C**

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.71")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.12")  
ALLOWABLE DEFL.(TL)= L/360 (0.71")  
CALCULATED VERT. DEFL.(TL)= L/999 (0.19")

CSI: TC=0.78/1.00 (C-D:1), BC=0.76/1.00 (H-I:1), WB=0.77/1.00 (C-L:1), SSI=0.64/1.00 (G-H: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 = 1.00

AUTOSOLVE RIGHT HEEL ONLY

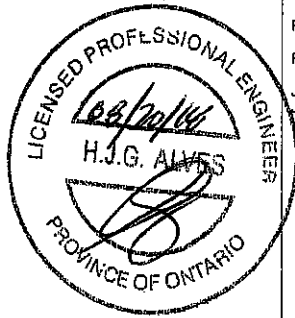
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

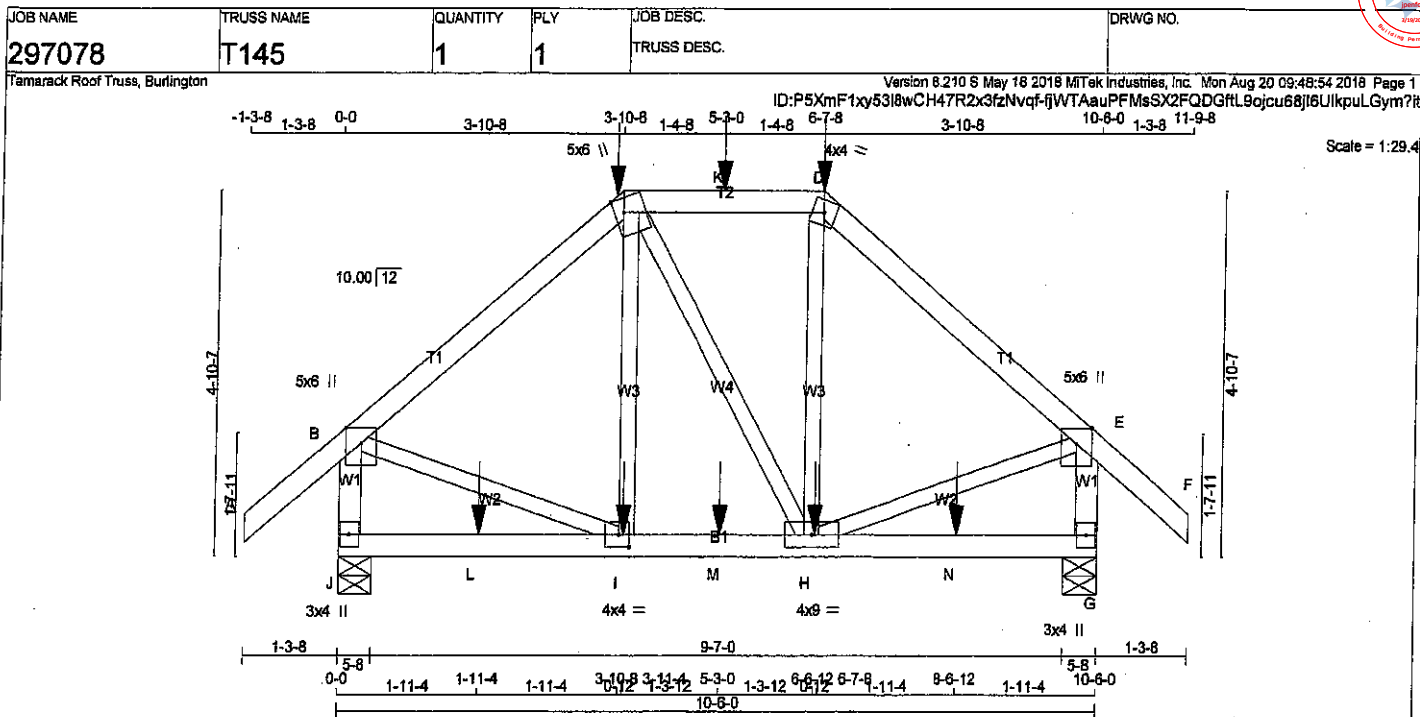
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.85 (C) (INPUT = 0.90)  
JSI METAL= 0.53 (E) (INPUT = 1.00)



DRWG NO. TAM 11805197  
STRUCTURAL  
COMPONENT ONLY



TOTAL WEIGHT = 51 lb

| LUMBER         |      |        |        |
|----------------|------|--------|--------|
| N.L.G.A. RULES | SIZE | LUMBER | DESCR. |
| CHORDS         |      |        |        |
| A - C          | 2x4  | DRY    | No.2   |
| C - D          | 2x4  | DRY    | No.2   |
| D - F          | 2x4  | DRY    | No.2   |
| J - B          | 2x4  | DRY    | No.2   |
| G - E          | 2x4  | DRY    | No.2   |
| J - G          | 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   | 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  | BMWW+t | MT20   | 4.0 | 9.0 |      |      |
| I  | BMWW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| J  | 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) 292.9 lbs FACTORED DOWN AT 3-10-8, AND 121.8 lbs FACTORED DOWN AT 5-3-0, AND 292.9 lbs FACTORED DOWN AT 6-7-8 ON TOP CHORD, AND 36.3 lbs FACTORED DOWN AT 1-11-4, 45.9 lbs FACTORED DOWN AT 3-11-4, 45.9 lbs FACTORED DOWN AT 5-3-0, AND 45.9 lbs FACTORED DOWN AT 6-6-12, AND 36.3 lbs FACTORED DOWN AT 8-6-12 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 |       | REQ'D |       |
|----------|------|----------------|-------|------------------|-------|-------|-------|-------|-------|
| JT       | VERT | GROSS REACTION | HORIZ | DOWN             | HORIZ | BRG   | IN-SX | BRG   | IN-SX |
| JT       | 1492 | 0              | 1492  | 0                | 0     | 5-8   | 5-8   | 5-8   | 5-8   |
| G        | 1492 | 0              | 1492  | 0                | 0     | 5-8   | 5-8   | 5-8   | 5-8   |

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |         |           |       |         |       |
|-----------|----------|-------------------------------|---------|-----------|-------|---------|-------|
| JT        | COMBINED | SNOW                          | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |
| J         | 1085     | 704 / 0                       | 160 / 0 | 0 / 0     | 0 / 0 | 220 / 0 | 0 / 0 |
| G         | 1085     | 704 / 0                       | 160 / 0 | 0 / 0     | 0 / 0 | 220 / 0 | 0 / 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 = 5.44 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 / 57                    | I-C   | -73 / 161                 |
| B-C    | -1104 / 0                 | C-H   | 0 / 1                     |
| C-K    | -844 / 0                  | H-D   | -74 / 163                 |
| K-D    | -844 / 0                  | D-E   | 0 / 890                   |
| D-E    | -1104 / 0                 | E-F   | 0 / 890                   |
| E-F    | 0 / 57                    |       |                           |
| J-B    | -1418 / 0                 |       |                           |
| G-E    | -1417 / 0                 |       |                           |
| J-L    | 0 / 0                     |       |                           |
| L-I    | 0 / 0                     |       |                           |
| I-M    | 0 / 844                   |       |                           |
| M-H    | 0 / 844                   |       |                           |
| H-N    | 0 / 0                     |       |                           |
| N-G    | 0 / 0                     |       |                           |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1  | MAX- | MAX+ | FACE  | DIR. |
|----|--------|------|------|------|-------|------|
| C  | 3-10-8 | -202 | -202 |      | FRONT | VERT |
| D  | 6-7-8  | -202 | -202 |      | FRONT | VERT |
| H  | 6-6-12 | -33  | -33  |      | FRONT | VERT |
| I  | 3-11-4 | -33  | -33  |      | FRONT | VERT |
| K  | 5-3-0  | -83  | -83  |      | FRONT | VERT |
| L  | 1-11-4 | -22  | -26  |      | FRONT | VERT |
| M  | 5-3-0  | -33  | -33  |      | FRONT | VERT |
| N  | 8-6-12 | -22  | -26  |      | FRONT | VERT |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 38.2 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. OC

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, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.35")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.35")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.40/1.00 (B-C:1), BC=0.23/1.00 (H-I:2), WB=0.22/1.00 (B-I:1), BS=0.21/1.00 (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 = 1.00

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

#### NAIL VALUES

| PLATE GRIP(DRY) SHEAR SECTION (PSI) | (PL) | (PL) | (PL) |
|-------------------------------------|------|------|------|
| MT20                                | 618  | 354  | 1657 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSGRIP=0.89 (I) (INPUT=0.90)  
JSGMETAL=0.46 (B) (INPUT=1.00)

DRWG NO. TAM 11805198  
STRUCTURAL  
COMPONENT ONLY



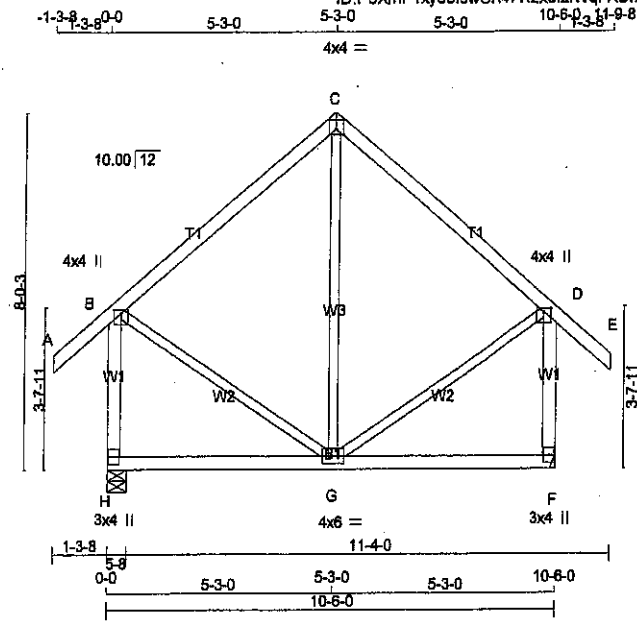
|                           |                           |                      |                 |                          |          |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|
| JOB NAME<br><b>297078</b> | TRUSS NAME<br><b>T146</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|

Tamarack Roof Truss, Burlington

Version 9.210 S May 18 2018 MtTek Industries, Inc. Mon Aug 20 09:48:55 2018 Page 1

ID: P5XmF1xy53I8wCH47R2x3fzNvqf-XUm\_?yxwJaMu0gYCSBjV?zNkVtYfarn4DmN5U1ym?jp

Scale = 1:49.8



TOTAL WEIGHT = 55 lb

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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |          |        |     |     |           |
|-----------------------------|----------|--------|-----|-----|-----------|
| JT                          | TYPE     | PLATES | W   | LEN | X         |
| B                           | TMVW+p   | MT20   | 4.0 | 4.0 | 1.00 2.00 |
| C                           | TTVW+p   | MT20   | 4.0 | 4.0 | 1.50 2.00 |
| D                           | TMVW+p   | MT20   | 4.0 | 4.0 | 1.00 2.00 |
| F                           | BMV1+p   | MT20   | 3.0 | 4.0 |           |
| G                           | BMVWWV-t | MT20   | 4.0 | 6.0 |           |
| 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 BRG | REQRD BRG |
|----------|------|-------------------------|---------------------------------|-----------|-----------|
| JT       | VERT | HORZ                    | DOWN                            | HORZ      | UPLIFT    |
| H        | 1082 | 0                       | 1082                            | 0         | 0         |
| F        | 1082 | 0                       | 1082                            | 0         | 0         |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT F.

**UNFACTORED REACTIONS**

| 1ST LCASE | COMBINED | SNOW    | LIVE    | PERM. LIVE | WIND  | DEAD    | SOIL  |
|-----------|----------|---------|---------|------------|-------|---------|-------|
| JT        | 771      | 597 / 0 | 110 / 0 | 0 / 0      | 0 / 0 | 153 / 0 | 0 / 0 |
| F         | 771      | 597 / 0 | 110 / 0 | 0 / 0      | 0 / 0 | 153 / 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 |             | FACTORED         |                 | WEBS  |             | FACTORED   |                     |
|--------|-------------|------------------|-----------------|-------|-------------|------------|---------------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX (LC)    | MEMB. | FORCE (LBS) | MAX (LC)   | UNBRAC LENGTH FR-TO |
| FR-TO  |             | FROM             | TO              | FR-TO |             |            |                     |
| A-B    | 0 / 57      | -129.7           | -129.7 0.18 (1) | 10.00 | G-C         | -150 / 149 | 0.18 (1)            |
| B-C    | -414 / 0    | -129.7           | -129.7 0.46 (1) | 6.25  | B-G         | 0 / 378    | 0.08 (1)            |
| C-D    | -414 / 0    | -129.7           | -129.7 0.46 (1) | 6.25  | G-D         | 0 / 378    | 0.08 (1)            |
| D-E    | 0 / 57      | -129.7           | -129.7 0.18 (1) | 10.00 |             |            |                     |
| H-B    | -986 / 0    | 0.0              | 0.0 0.22 (1)    | 7.81  |             |            |                     |
| F-D    | -986 / 0    | 0.0              | 0.0 0.22 (1)    | 7.81  |             |            |                     |
| H-G    | 0 / 0       | -38.5            | -38.5 0.24 (3)  | 10.00 |             |            |                     |
| G-F    | 0 / 0       | -38.5            | -38.5 0.24 (3)  | 10.00 |             |            |                     |

**DESIGN CRITERIA**

SPECIFIED LOADS:  
TOP CH. LL = 38.2 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/260 (0.35")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/380 (0.35")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.46/1.00 (B-C:1), BC=0.24/1.00 (G-H:3), WB=0.18/1.00 (C-G:1), SS=0.20/1.00 (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 = 1.00

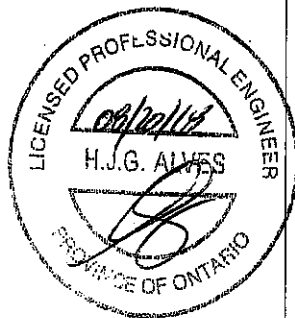
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

| NAIL VALUES |           |       |         |       |       |
|-------------|-----------|-------|---------|-------|-------|
| PLATE       | GRIP(DRY) | SHEAR | SECTION | (PSI) | (PLI) |
| MT20        | 618       | 354   | 1657    | 788   | 1987  |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.74 (D) (INPUT = 0.90)  
JSI METAL= 0.20 (B) (INPUT = 1.00)



DWG NO. TAM 11405199  
STRUCTURAL  
COMPONENT ONLY





|          |            |          |     |             |          |
|----------|------------|----------|-----|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 297078   | T201       | 1        | 2   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MiTek Industries, Inc. Mon Aug 20 09:49:02 2018 Page 2  
ID:P5XmF1xy53l8wCH47R2x3fzNvgf-QG?VrJ QNpsKUHszhyolgr7?q7jFbHAq8 Udoym?i

**HANGERS NOTES**  
1) SPECIAL HANGER(S) OR CONNECTION(S)  
REQUIRED TO SUPPORT CONCENTRATED  
LOAD(S) 462.1 lbs FACTORED DOWN AT 2-11-8,  
156.1 lbs FACTORED DOWN AT 5-0-4, 156.1 lbs  
FACTORED DOWN AT 7-0-4, 156.1 lbs  
FACTORED DOWN AT 9-0-4, 156.1 lbs  
FACTORED DOWN AT 11-0-4, 156.1 lbs  
FACTORED DOWN AT 13-0-4, 156.1 lbs  
FACTORED DOWN AT 15-0-4, 156.1 lbs  
FACTORED DOWN AT 17-0-4, AND 156.1 lbs  
FACTORED DOWN AT 19-0-4, AND 216.8 lbs  
FACTORED DOWN AT 21-0-0 ON TOP CHORD,  
AND 54.2 lbs FACTORED DOWN AT 1-0-4, 61.2  
lbs FACTORED DOWN AT 3-0-4, 54.2 lbs  
FACTORED DOWN AT 5-0-4, 54.2 lbs  
FACTORED DOWN AT 7-0-4, 54.2 lbs  
FACTORED DOWN AT 9-0-4, 54.2 lbs  
FACTORED DOWN AT 11-0-4, 54.2 lbs  
FACTORED DOWN AT 13-0-4, 54.2 lbs  
FACTORED DOWN AT 15-0-4, 54.2 lbs  
FACTORED DOWN AT 17-0-4, AND 54.2 lbs  
FACTORED DOWN AT 19-0-4, AND 75.0 lbs  
FACTORED DOWN AT 20-11-4 ON BOTTOM  
CHORD. DESIGN FOR UNSPECIFIED  
CONNECTION(S) IS DELEGATED TO THE  
BUILDING DESIGNER.

| SPECIFIED CONCENTRATED LOADS (LBS) |        |      |      |      |       |      |       |  |  |
|------------------------------------|--------|------|------|------|-------|------|-------|--|--|
| JT                                 | LOC.   | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  |  |  |
| O                                  | 5-0-4  | -106 | -106 | ---  | FRONT | VERT | TOTAL |  |  |
| P                                  | 7-0-4  | -106 | -106 | ---  | FRONT | VERT | TOTAL |  |  |
| Q                                  | 13-0-4 | -106 | -106 | ---  | FRONT | VERT | TOTAL |  |  |
| R                                  | 17-0-4 | -106 | -106 | ---  | FRONT | VERT | TOTAL |  |  |
| S                                  | 19-0-4 | -106 | -106 | ---  | FRONT | VERT | TOTAL |  |  |
| T                                  | 1-0-4  | -37  | -37  | ---  | FRONT | VERT | TOTAL |  |  |
| U                                  | 5-0-4  | -37  | -37  | ---  | FRONT | VERT | TOTAL |  |  |
| V                                  | 7-0-4  | -37  | -37  | ---  | FRONT | VERT | TOTAL |  |  |
| W                                  | 11-0-4 | -37  | -37  | ---  | FRONT | VERT | TOTAL |  |  |
| X                                  | 13-0-4 | -37  | -37  | ---  | FRONT | VERT | TOTAL |  |  |
| Y                                  | 17-0-4 | -37  | -37  | ---  | FRONT | VERT | TOTAL |  |  |
| Z                                  | 19-0-4 | -37  | -37  | ---  | FRONT | VERT | TOTAL |  |  |

A circular professional seal for a Licensed Professional Engineer in the Province of Ontario. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. In the center, there is a signature "H.J.G. Alder" and a date stamp "08/22/16".

DWG NO. TAM 1805200  
STRUCTURAL  
COMPONENT ONLY



DWG NO. TAM 11805200  
STRUCTURAL  
COMPONENT ONLY



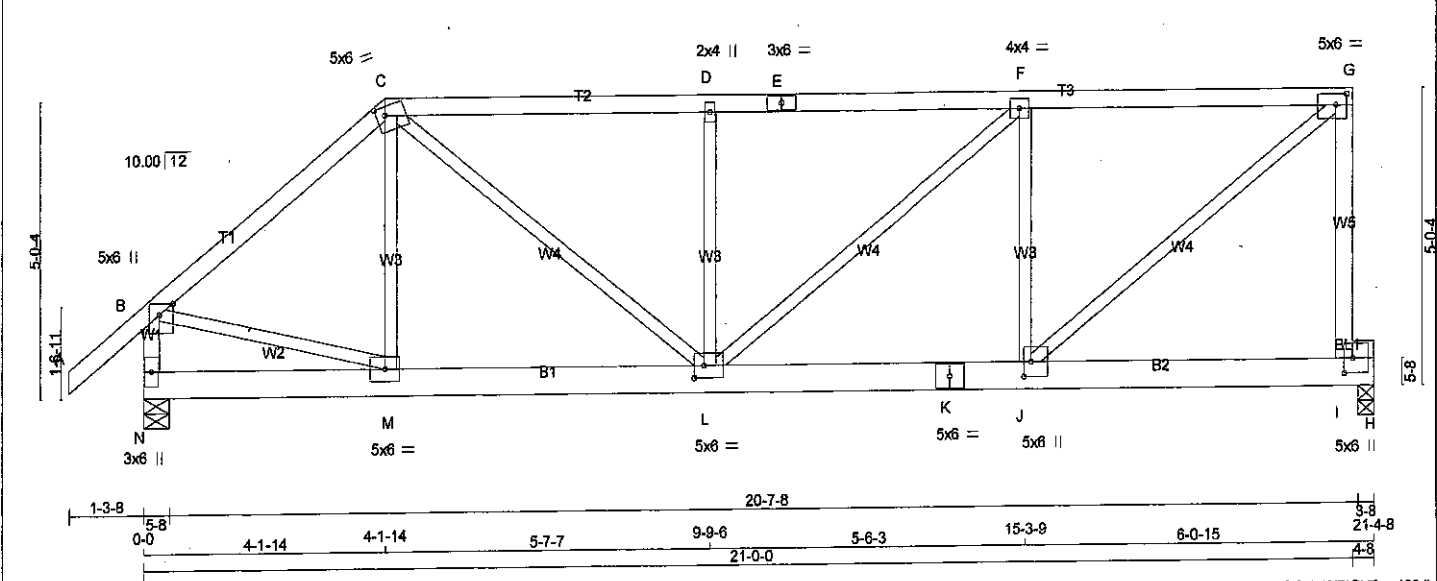
|          |            |          |     |             |          |
|----------|------------|----------|-----|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 297078   | T202       | 1        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

Version 8.210 S May 16 2018 MTek Industries, Inc. Mon Aug 20 09:49:06 2018 Page 1

ID: P28MfeCLvUenecsozG30C7zN961-11E0hh1xQ2N1zu9kwoshqhlhik67X8yF2cjVWmZym?ih

Scale = 1:37.3



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

| BEARING BLOCKS |     |     | LUMBER |     |  |
|----------------|-----|-----|--------|-----|--|
| BL1            | 2x4 | DRY | No.2   | SPF |  |

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |         |        |     |     |           |
|-----------------------------|---------|--------|-----|-----|-----------|
| JF                          | TYPE    | PLATES | W   | LEN | Y X       |
| B                           | TMVW+p  | MT20   | 5.0 | 6.0 | Edge 2.75 |
| C                           | TTWW-m  | MT20   | 5.0 | 6.0 | 1.75 1.75 |
| D                           | TMW+w   | MT20   | 2.0 | 4.0 |           |
| E                           | TS-l    | MT20   | 3.0 | 6.0 |           |
| F                           | TMWV-t  | MT20   | 4.0 | 4.0 |           |
| G                           | TMVW-l  | MT20   | 5.0 | 6.0 | 2.25 2.25 |
| I                           | BMVK+p  | MT20   | 5.0 | 6.0 | 3.00 1.75 |
| J                           | BMVW+t  | MT20   | 5.0 | 6.0 | 3.00 1.50 |
| K                           | BS-l    | MT20   | 5.0 | 6.0 |           |
| L                           | BMVWV-l | MT20   | 5.0 | 6.0 | 2.50 2.00 |
| M                           | BMVW-t  | MT20   | 5.0 | 6.0 |           |
| N                           | BMV1+p  | MT20   | 3.0 | 6.0 |           |

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 | REQD  |  |  |  |  |
|                                                                                               | GROSS REACTION | GROSS REACTION | DOWN     | BRG   | BRG   |  |  |  |  |
| JT                                                                                            | VERT           | HORZ           | UPLIFT   | IN-SX | IN-SX |  |  |  |  |
| N                                                                                             | 1978           | 0              | 1978     | 0     | 5-8   |  |  |  |  |
| H                                                                                             | 1749           | 0              | 1749     | 0     | 3-8   |  |  |  |  |

| UNFACTORED REACTIONS |          |           |           |           |       |         |       |
|----------------------|----------|-----------|-----------|-----------|-------|---------|-------|
| 1ST LCASE            | MAX/MIN  | COMPONENT | REACTIONS |           |       |         |       |
| JT                   | COMBINED | SNOW      | LIVE      | PERM.LIVE | WIND  | DEAD    | SOIL  |
| N                    | 1441     | 923 / 0   | 224 / 0   | 0 / 0     | 0 / 0 | 284 / 0 | 0 / 0 |
| H                    | 1286     | 789 / 0   | 224 / 0   | 0 / 0     | 0 / 0 | 273 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.80 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      |                 | MEMB. | MAX. FACTORED | FORCE      |          |
|        | (LBS)         | VERT. LOAD | LC1 MAX         |       | (LBS)         | MAX        |          |
|        |               | (PLF)      | CSI (LC)        |       |               | CSI (LC)   |          |
| FR-TO  |               | FROM       | TO              | FR-TO |               | FROM       | TO       |
| A-B    | 0 / 57        | -129.7     | -129.7 0.18 (1) | 10.00 | M-C           | -115 / 137 | 0.04 (1) |
| B-C    | -1736 / 0     | -129.7     | -129.7 0.47 (1) | 4.51  | B-M           | 0 / 1377   | 0.31 (1) |
| C-D    | -2126 / 0     | -129.7     | -129.7 0.67 (1) | 3.85  | J-G           | 0 / 2439   | 0.55 (1) |
| D-E    | -2126 / 0     | -129.7     | -129.7 0.69 (1) | 3.80  | C-L           | 0 / 1034   | 0.23 (1) |
| E-F    | -2126 / 0     | -129.7     | -129.7 0.69 (1) | 3.80  | J-F           | -1046 / 0  | 0.36 (1) |
| F-G    | -1834 / 0     | -129.7     | -129.7 0.67 (1) | 4.08  | L-D           | -779 / 0   | 0.27 (1) |
| I-G    | -1841 / 0     | 0.0        | 0.0 0.71 (1)    | 6.17  | L-F           | 0 / 382    | 0.09 (1) |
| N-B    | -1920 / 0     | 0.0        | 0.0 0.20 (1)    | 6.07  |               |            |          |
| N-M    | 0 / 0         | -38.5      | -38.5 0.09 (2)  | 10.00 |               |            |          |
| M-L    | 0 / 1328      | -38.5      | -38.5 0.24 (1)  | 10.00 |               |            |          |
| L-K    | 0 / 1834      | -38.5      | -38.5 0.42 (1)  | 10.00 |               |            |          |
| K-J    | 0 / 1834      | -38.5      | -38.5 0.42 (1)  | 10.00 |               |            |          |
| J-I    | -58 / 0       | -38.5      | -38.5 0.61 (1)  | 6.25  |               |            |          |
| I-H    | 0 / 0         | -38.5      | -38.5 0.38 (1)  | 10.00 |               |            |          |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

TOP CH. LL = 38.2 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.71")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.11")  
ALLOWABLE DEFL. (TL) = L/360 (0.71")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.17")

CSI: TC=0.71/1.00 (G-I-1), BC=0.61/1.00 (J-I-1),  
WB=0.55/1.00 (G-J-1), SS=0.64/1.00 (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 = 1.00

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

**NAIL VALUES**

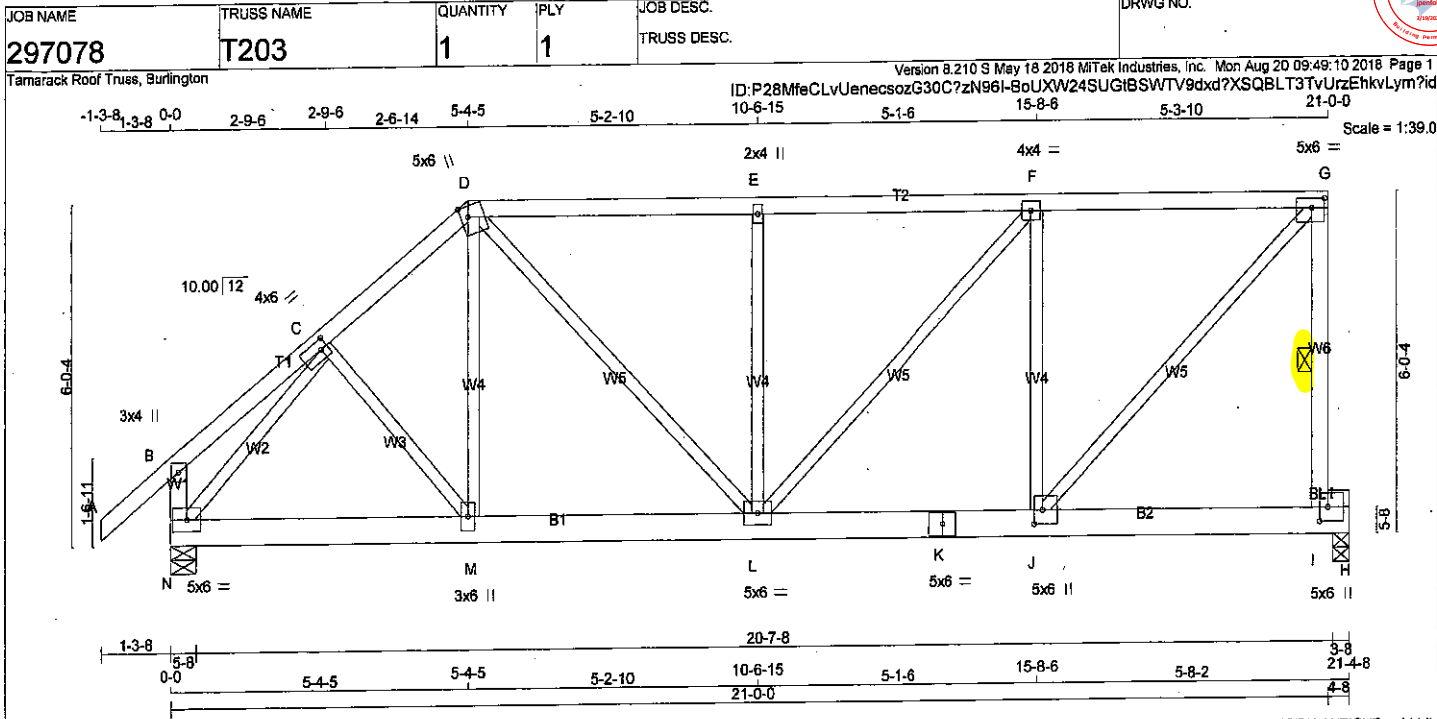
| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
|       | (PSI)     | (PLI) | (PLI)   |
|       | MAX       | MIN   | MAX     |
| MT20  | 618       | 354   | 1667    |
|       | 788       | 1687  | 1658    |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (J) (INPUT = 0.90 )  
JSI METAL= 0.68 (J) (INPUT = 1.00 )

DWG NO. TAM T1805201  
STRUCTURAL  
COMPONENT ONLY



| LUMBER                |        |      |        |
|-----------------------|--------|------|--------|
| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER |
| A - D                 | 2x4    | DRY  | No.2   |
| D - G                 | 2x4    | DRY  | No.2   |
| I - G                 | 2x4    | DRY  | No.2   |
| N - B                 | 2x4    | DRY  | No.2   |
| N - K                 | 2x6    | DRY  | No.2   |
| K - H                 | 2x6    | DRY  | No.2   |
| BEARING BLOCKS        |        |      |        |
| BL1                   | 2x4    | DRY  | No.2   |
| 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                           | TMVW+I | MT20   | 4.0 | 6.0 2.00 1.50 |
| D                           | TTWW+m | MT20   | 5.0 | 6.0 2.25 1.50 |
| E                           | TMVW+w | MT20   | 2.0 | 4.0           |
| F                           | TMVW+I | MT20   | 4.0 | 4.0           |
| G                           | TMVW+I | MT20   | 5.0 | 6.0 2.00 2.75 |
| I                           | BMVW+p | MT20   | 5.0 | 6.0 3.00 1.75 |
| J                           | BMVW+I | MT20   | 5.0 | 6.0 3.00 1.75 |
| K                           | BS-I   | MT20   | 5.0 | 6.0           |
| L                           | BMVW+I | MT20   | 5.0 | 6.0           |
| M                           | BMVW+I | MT20   | 3.0 | 6.0           |
| N                           | BMVW+I | MT20   | 5.0 | 6.0           |

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

| BEARINGS |                         |                                 |           |
|----------|-------------------------|---------------------------------|-----------|
| JT       | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG |
| N        | 1976 0                  | 1976 0                          | 5-8       |
| H        | 1749 0                  | 1749 0                          | 3-8       |

| UNFACTORED REACTIONS |           |         |                     |           |       |         |
|----------------------|-----------|---------|---------------------|-----------|-------|---------|
| JT                   | 1ST LCASE | MAX/MIN | COMPONENT REACTIONS | PERM.LIVE | WIND  | DEAD    |
| N                    | 1441      | 923 / 0 | 224 / 0             | 0 / 0     | 0 / 0 | 294 / 0 |
| H                    | 1266      | 789 / 0 | 224 / 0             | 0 / 0     | 0 / 0 | 273 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.33 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-I.

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 |                           |                           |                       |
|--------|---------------------------|---------------------------|-----------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CS (LC) |
| FR-TO  |                           | FROM TO                   | LENGTH                |
| A-B    | 0 / 57                    | -129.7 -129.7             | 0.18 (1)              |
| B-C    | 0 / 22                    | -129.7 -129.7             | 0.13 (1)              |
| C-D    | -1722 / 0                 | -129.7 -129.7             | 0.16 (1)              |
| D-E    | -1751 / 0                 | -129.7 -129.7             | 0.54 (1)              |
| E-F    | -1751 / 0                 | -129.7 -129.7             | 0.56 (1)              |
| F-G    | -1441 / 0                 | -129.7 -129.7             | 0.54 (1)              |
| I-G    | -1865 / 0                 | 0.0 0.0                   | 0.31 (1)              |
| N-B    | -317 / 0                  | 0.0 0.0                   | 0.03 (1)              |
| N-M    | 0 / 1247                  | -38.5 -38.5               | 0.22 (1)              |
| M-L    | 0 / 1305                  | -38.5 -38.5               | 0.23 (1)              |
| L-K    | 0 / 1441                  | -38.5 -38.5               | 0.37 (1)              |
| K-J    | 0 / 1441                  | -38.5 -38.5               | 0.37 (1)              |
| J-I    | -48 / 0                   | -38.5 -38.5               | 0.61 (1)              |
| I-H    | 0 / 0                     | -38.5 -38.5               | 0.38 (1)              |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 38.2 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 088-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.71")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")  
ALLOWABLE DEFL.(TL) = L/360 (0.71")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TO=0.56/1.00 (E-F-1), BC=0.61/1.00 (H-J-1), WB=0.58/1.00 (C-N-1), SSI=0.64/1.00 (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 = 1.00

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

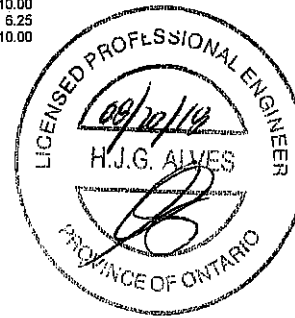
**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1987 1658

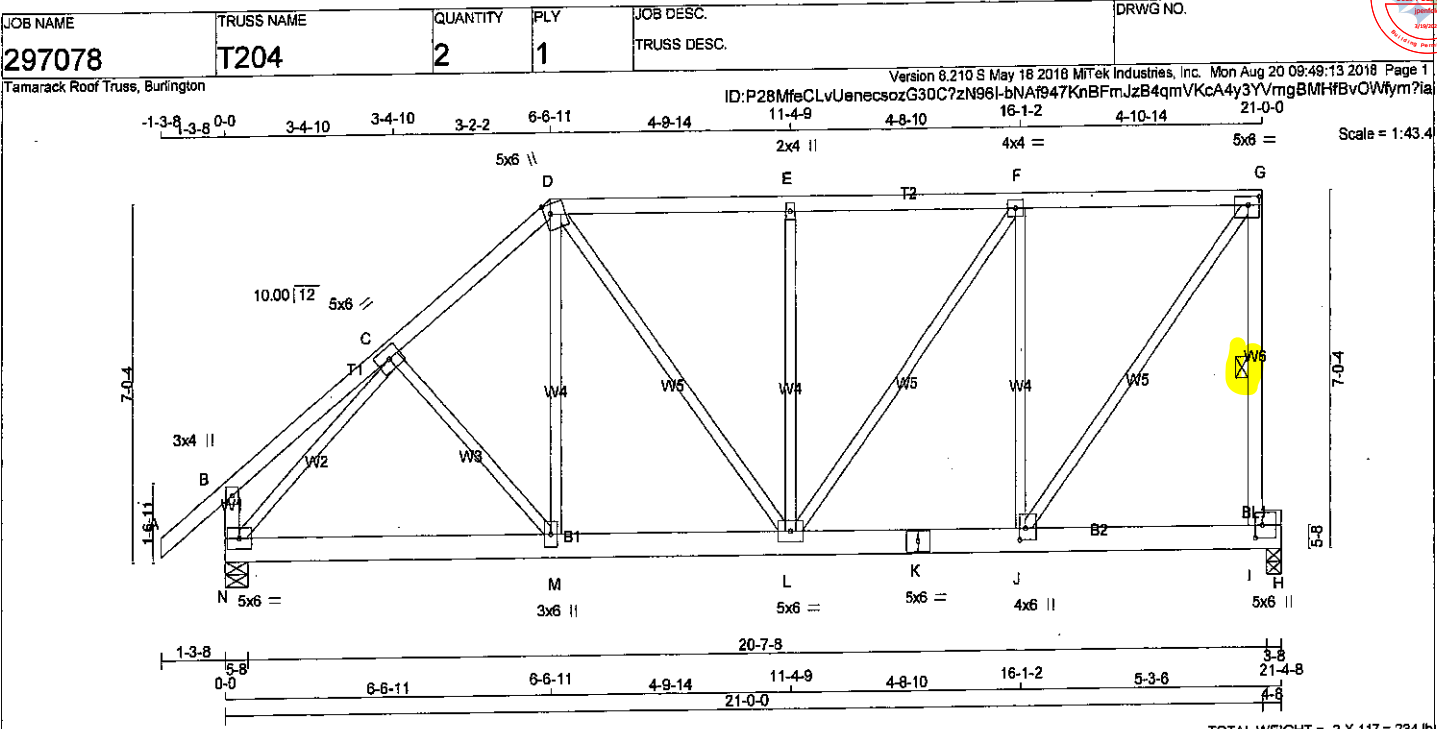
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (C) (INPUT = 0.90)  
JSI METAL= 0.54 (J) (INPUT = 1.00)

DWG NO. TAM T1805202  
STRUCTURAL  
COMPONENT ONLY





| LUMBER         |      |        |        |
|----------------|------|--------|--------|
| N.L.G.A. RULES | SIZE | LUMBER | DESCR. |
| A - D          | 2x4  | DRY    | No.2   |
| D - G          | 2x4  | DRY    | No.2   |
| I - G          | 2x4  | DRY    | No.2   |
| N - B          | 2x4  | DRY    | No.2   |
| N - K          | 2x6  | DRY    | No.2   |
| K - H          | 2x6  | DRY    | No.2   |

| BEARING BLOCKS  |     |     |      |
|-----------------|-----|-----|------|
| BL1             | 2x4 | DRY | No.2 |
| ALL WEBS EXCEPT | 2x3 | DRY | No.2 |

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+1 | MT20   | 5.0 | 6.0     |
| D                           | TTWW+m | MT20   | 5.0 | 6.0     |
| E                           | TMVW+w | MT20   | 2.0 | 4.0     |
| F                           | TMVW+1 | MT20   | 4.0 | 4.0     |
| G                           | TMVW+1 | MT20   | 5.0 | 6.0     |
| I                           | BMVK+p | MT20   | 5.0 | 6.0     |
| J                           | BMVW+1 | MT20   | 4.0 | 6.0     |
| K                           | BS+1   | MT20   | 5.0 | 6.0     |
| L                           | BMVW+1 | MT20   | 5.0 | 6.0     |
| M                           | BMVW+1 | MT20   | 3.0 | 6.0     |
| N                           | BMVW+1 | MT20   | 5.0 | 6.0     |

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

| BEARINGS |      | FACTORED       |      | MAXIMUM FACTORED |      | INPUT |       | REQ'D |       |
|----------|------|----------------|------|------------------|------|-------|-------|-------|-------|
| JT       | VERT | GROSS REACTION | DOWN | GROSS REACTION   | HORZ | BRG   | IN-SX | BRG   | IN-SX |
| N        | 1976 | 0              | 1976 | 0                | 0    | 5-8   | 5-8   | 5-8   | 5-8   |
| H        | 1749 | 0              | 1749 | 0                | 0    | 3-8   | 3-8   | 3-8   | 3-8   |

| UNFACTORED REACTIONS |           |         |         |            |       |         |
|----------------------|-----------|---------|---------|------------|-------|---------|
| JT                   | 1ST LCASE | SNOW    | LIVE    | PERM. LIVE | WIND  | DEAD    |
| N                    | 1441      | 923 / 0 | 224 / 0 | 0 / 0      | 0 / 0 | 294 / 0 |
| H                    | 1286      | 789 / 0 | 224 / 0 | 0 / 0      | 0 / 0 | 273 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.81 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.  
1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-I.

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 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |  |
| FR-TO  |                           | FROM TO                   |                           | FR-TO |                           |                           |  |
| A-B    | 0 / 57                    | -129.7 -129.7             | 0.18 (1)                  | C-M   | -57 / 74                  | 0.02 (1)                  |  |
| B-C    | 0 / 30                    | -129.7 -129.7             | 0.21 (1)                  | M-D   | 0 / 352                   | 0.06 (2)                  |  |
| C-D    | -1684 / 0                 | -129.7 -129.7             | 0.25 (1)                  | N-C   | -1998 / 0                 | 0.79 (1)                  |  |
| D-E    | -1471 / 0                 | -129.7 -129.7             | 0.44 (1)                  | J-G   | 0 / 2027                  | 0.46 (1)                  |  |
| E-F    | -1472 / 0                 | -129.7 -129.7             | 0.45 (1)                  | D-L   | 0 / 365                   | 0.08 (1)                  |  |
| F-G    | -1162 / 0                 | -129.7 -129.7             | 0.44 (1)                  | J-F   | -1122 / 0                 | 0.99 (1)                  |  |
| I-G    | -1890 / 0                 | 0.0 0.0                   | 0.40 (1)                  | L-E   | -667 / 0                  | 0.53 (1)                  |  |
| N-B    | -344 / 0                  | 0.0 0.0                   | 0.04 (1)                  | L-F   | 0 / 535                   | 0.12 (1)                  |  |
| N-M    | 0 / 1290                  | -38.5 -38.5               | 0.25 (1)                  |       |                           |                           |  |
| M-L    | 0 / 1257                  | -38.5 -38.5               | 0.25 (2)                  |       |                           |                           |  |
| L-K    | 0 / 1162                  | -38.5 -38.5               | 0.33 (1)                  |       |                           |                           |  |
| K-J    | 0 / 1162                  | -38.5 -38.5               | 0.33 (1)                  |       |                           |                           |  |
| J-I    | -41 / 0                   | -38.5 -38.5               | 0.61 (1)                  |       |                           |                           |  |
| I-H    | 0 / 0                     | -38.5 -38.5               | 0.38 (1)                  |       |                           |                           |  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 38.2 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2012, OBC 2018  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.71")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")  
ALLOWABLE DEFL.(TL) = L/360 (0.71")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.45/1.00 (E-F-1), BC=0.61/1.00 (I-J-1),  
WB=0.99/1.00 (F-J-1), SS=0.64/1.00 (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 = 1.00

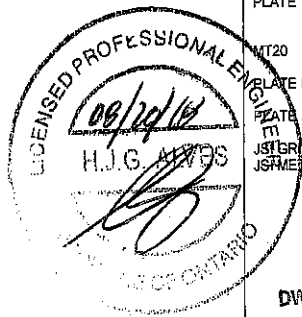
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

| NAIL VALUES |            |          |           |  |
|-------------|------------|----------|-----------|--|
| PLATE       | GRIP (DRY) | SHEAR    | SECTION   |  |
|             | (PSI)      | (PLI)    | (PLI)     |  |
|             | MAX MIN    | MAX MIN  | MAX MIN   |  |
| MT20        | 618 354    | 1667 788 | 1987 1656 |  |

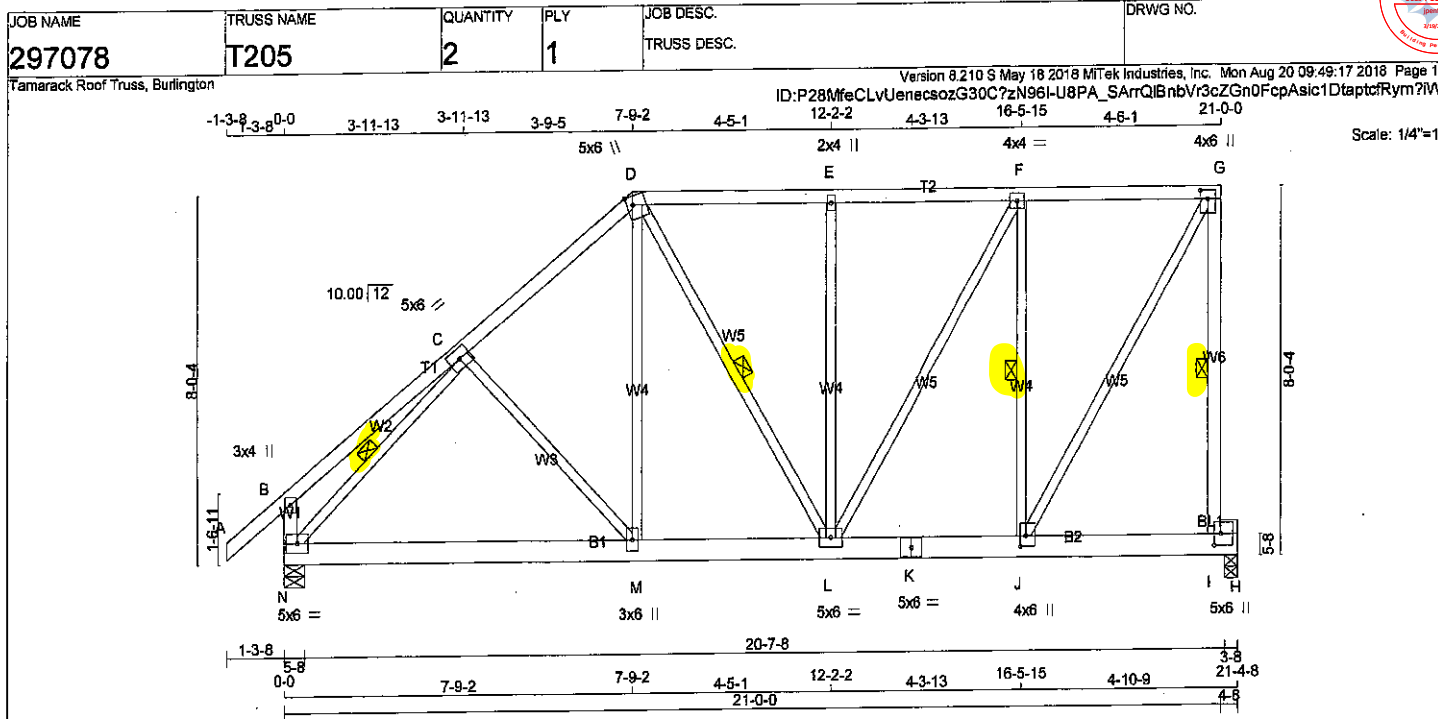
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JST GRIP = 0.89 (J) (INPUT = 0.90)  
JST METAL = 0.54 (J) (INPUT = 1.00)



DWG NO. TAM 71805203  
STRUCTURAL  
COMPONENT ONLY



**LUMBER**

N.L.G.A. RULES

| CHORDS | SIZE | LUMBER | DESCR. |
|--------|------|--------|--------|
| A - D  | 2x4  | DRY    | No.2   |
| D - G  | 2x4  | DRY    | No.2   |
| I - G  | 2x4  | DRY    | No.2   |
| N - B  | 2x4  | DRY    | No.2   |
| N - K  | 2x6  | DRY    | No.2   |
| K - H  | 2x6  | DRY    | No.2   |

BEARING BLOCKS

| BL1 | 2x4 | DRY | No.2 | SPF |
|-----|-----|-----|------|-----|
|-----|-----|-----|------|-----|

ALL WEBS 2x3 DRY 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   | 5.0 | 6.0 |      |      |
| D  | TTWW+m | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| E  | TMW+w  | MT20   | 2.0 | 4.0 |      |      |
| F  | TMWW-t | MT20   | 4.0 | 4.0 |      |      |
| G  | TMVW+p | MT20   | 4.0 | 6.0 | 2.25 | 2.00 |
| I  | BMVK+p | MT20   | 5.0 | 6.0 | 3.00 | 1.75 |
| J  | BMWW+t | MT20   | 4.0 | 6.0 | 2.75 | 1.50 |
| K  | BS-t   | MT20   | 5.0 | 6.0 |      |      |
| L  | BMWW-t | MT20   | 5.0 | 6.0 |      |      |
| M  | BMWW+t | MT20   | 3.0 | 6.0 |      |      |
| N  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |

**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 | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| N  | 1976                    | 0    | 1976                            | 0    | 5-8             | 5-8            |
| H  | 1749                    | 0    | 1749                            | 0    | 3-8             | 3-8            |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE |         | MAX/MIN COMPONENT REACTIONS |           | WIND  | DEAD    | SOIL  |
|----|-----------|---------|-----------------------------|-----------|-------|---------|-------|
|    | COMBINED  | SNOW    | LIVE                        | PERM/LIVE |       |         |       |
| N  | 1441      | 923 / 0 | 224 / 0                     | 0 / 0     | 0 / 0 | 294 / 0 | 0 / 0 |
| H  | 1266      | 789 / 0 | 224 / 0                     | 0 / 0     | 0 / 0 | 273 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.83 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-I, C-N, D-L, F-J.

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 |          | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) |                    |
|        |                           | LC1 (PLF)           | LC2 (LC) |                      |       | MAX. CSI (LC)             |                    |
| FR-TO  |                           | FROM                | TO       |                      | FR-TO |                           |                    |
| A-B    | 0 / 57                    | -129.7              | -129.7   | 0.18 (1)             | 10.00 | C-M                       | -183 / 46 0.11 (1) |
| B-C    | 0 / 37                    | -129.7              | -129.7   | 0.31 (1)             | 10.00 | M-D                       | 0 / 474 0.11 (2)   |
| C-D    | -1585 / 0                 | -129.7              | -129.7   | 0.36 (1)             | 4.83  | N-C                       | -1975 / 0 0.47 (1) |
| D-E    | -1250 / 0                 | -129.7              | -129.7   | 0.35 (1)             | 5.29  | J-G                       | 0 / 1950 0.44 (1)  |
| E-F    | -1251 / 0                 | -129.7              | -129.7   | 0.37 (1)             | 5.27  | D-L                       | -18 / 117 0.03 (1) |
| F-G    | -953 / 0                  | -129.7              | -129.7   | 0.35 (1)             | 5.85  | J-F                       | -1158 / 0 0.45 (1) |
| I-G    | -1918 / 0                 | 0.0                 | 0.0      | 0.53 (1)             | 4.86  | L-E                       | -811 / 0 0.71 (1)  |
| N-B    | -372 / 0                  | 0.0                 | 0.0      | 0.04 (1)             | 7.81  | L-F                       | 0 / 606 0.14 (1)   |
| N-M    | 0 / 1310                  | -38.5               | -38.5    | 0.30 (2)             | 10.00 |                           |                    |
| M-L    | 0 / 1192                  | -38.5               | -38.5    | 0.29 (2)             | 10.00 |                           |                    |
| L-K    | 0 / 953                   | -38.5               | -38.5    | 0.30 (1)             | 10.00 |                           |                    |
| K-J    | 0 / 953                   | -38.5               | -38.5    | 0.30 (1)             | 10.00 |                           |                    |
| J-I    | -37 / 0                   | -38.5               | -38.5    | 0.61 (1)             | 6.25  |                           |                    |
| I-H    | 0 / 0                     | -38.5               | -38.5    | 0.38 (1)             | 10.00 |                           |                    |

ED PROFESSIONAL

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

| TOP CH. | LL   | PSF |
|---------|------|-----|
|         | 38.2 | PSF |
| BOT CH. | LL   | PSF |
|         | 10.5 | PSF |
|         | 7.0  | PSF |
|         | 61.7 | PSF |

**TOTAL LOAD = 2 X 124 = 248 lb**

**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, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.71")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")  
ALLOWABLE DEFL.(TL)= L/360 (0.71")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.53/1.00 (G-I:1), BC=0.61/1.00 (I-J:1), WB=0.71/1.00 (E-L:1), SS=0.64/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

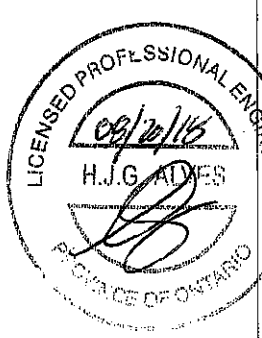
**NAIL VALUES**

| PLATE GRIP(DRY) | SHEAR   | SECTION            |
|-----------------|---------|--------------------|
| (PSI)           | (PLI)   | (PLI)              |
| MAX MIN         | MAX MIN | MAX MIN            |
| MT20            | 618 354 | 1667 788 1967 1656 |

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

JSI GRIP = 0.89 (G) (INPUT = 0.90)  
JSI METAL = 0.49 (C) (INPUT = 1.00)

DWG NO. TAM 11805204  
STRUCTURAL  
COMPONENT ONLY





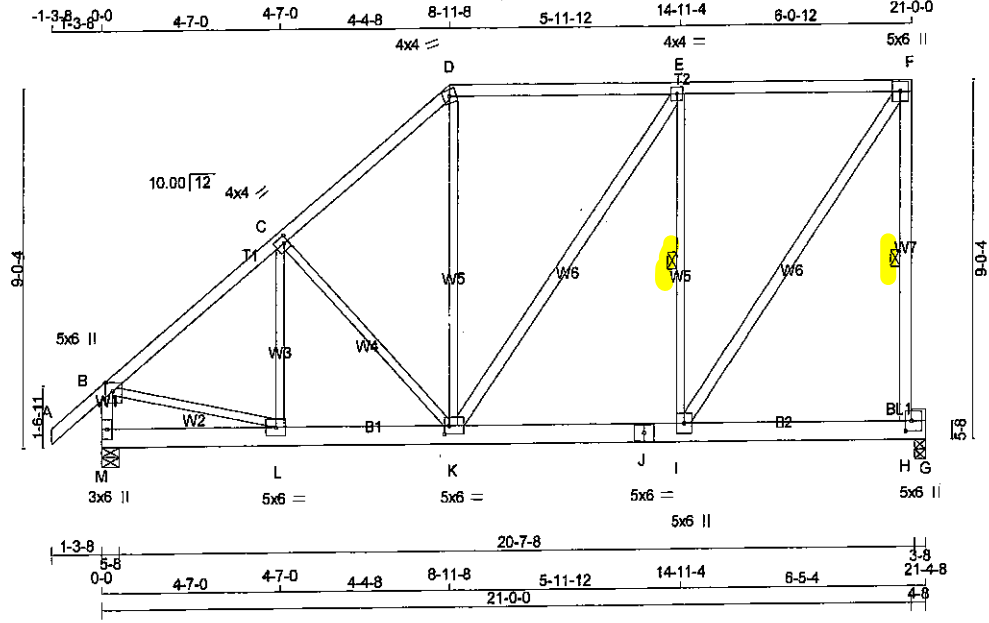
|          |            |          |     |             |          |
|----------|------------|----------|-----|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 297078   | T206       | 5        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

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ID: P28MfeCLvUenecsozG30C?zN96l-MwehqpDLufGdGcPdIReCxsQDenDeYu7TVRpoCym?S

Scale = 1:55.6



TOTAL WEIGHT = 5 X 127 = 636 lb

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

| BEARING BLOCKS |     |     |      |
|----------------|-----|-----|------|
| BL1            | 2x4 | DRY | No.2 |

| ALL WEBS EXCEPT |     |     |      |
|-----------------|-----|-----|------|
| K - E           | 2x4 | DRY | No.2 |
| I - F           | 2x4 | DRY | No.2 |

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |        |     |     |           |
|-----------------------------|--------|-----|-----|-----------|
| JT TYPE                     | PLATES | W   | LEN | Y X       |
| B TMVW+p                    | MT20   | 5.0 | 6.0 | 2.50 2.25 |
| C TMWW-t                    | MT20   | 4.0 | 4.0 | 2.00 1.25 |
| D TTW-m                     | MT20   | 4.0 | 4.0 |           |
| E TMWW-t                    | MT20   | 4.0 | 4.0 |           |
| F TMVW+p                    | MT20   | 5.0 | 6.0 |           |
| H BMVK+p                    | MT20   | 5.0 | 6.0 | 3.00 1.75 |
| I BMWW-t                    | MT20   | 5.0 | 6.0 |           |
| J BS-t                      | MT20   | 5.0 | 6.0 |           |
| K BMWW-t                    | MT20   | 5.0 | 6.0 | 2.50 1.50 |
| L BMWW-t                    | MT20   | 5.0 | 6.0 |           |
| M BMV1+p                    | MT20   | 3.0 | 6.0 |           |

| DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |                |                  |       |        |       |       |  |
|-----------------------------------------------------------------------------------------------|----------------|------------------|-------|--------|-------|-------|--|
| BEARINGS                                                                                      |                |                  |       |        |       |       |  |
|                                                                                               | FACTORED       | MAXIMUM FACTORED | INPUT | REQRD  |       |       |  |
|                                                                                               | GROSS REACTION | GROSS REACTION   | BRG   | BRG    |       |       |  |
| JT                                                                                            | VERT           | DOWN             | HORZ  | UPLIFT | IN-SX | IN-SX |  |
| M                                                                                             | 1976           | 0                | 1976  | 0      | 5-8   | 5-8   |  |
| G                                                                                             | 1749           | 0                | 1749  | 0      | 3-8   | 3-8   |  |

| UNFACTORED REACTIONS                  |          |         |         |           |       |         |       |
|---------------------------------------|----------|---------|---------|-----------|-------|---------|-------|
| 1ST LCASE MAX/MIN COMPONENT REACTIONS |          |         |         |           |       |         |       |
| JT                                    | COMBINED | SNOW    | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |
| M                                     | 1441     | 923 / 0 | 224 / 0 | 0 / 0     | 0 / 0 | 294 / 0 | 0 / 0 |
| G                                     | 1286     | 769 / 0 | 224 / 0 | 0 / 0     | 0 / 0 | 273 / 0 | 0 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.28 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-H, E-I.

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 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |  |
| FR-TO  |                           | FROM TO                   |                           | FR-TO |                           |                           |  |
| A-B    | 0 / 57                    | -129.7 -129.7             | 0.18 (1)                  | L-C   | -148 / 113                | 0.06 (1)                  |  |
| B-C    | -1748 / 0                 | -129.7 -129.7             | 0.53 (1)                  | C-K   | -444 / 0                  | 0.36 (1)                  |  |
| C-D    | -1453 / 0                 | -129.7 -129.7             | 0.50 (1)                  | K-D   | 0 / 399                   | 0.09 (2)                  |  |
| D-E    | -1083 / 0                 | -129.7 -129.7             | 0.86 (1)                  | K-E   | 0 / 73                    | 0.01 (1)                  |  |
| E-F    | -1042 / 0                 | -129.7 -129.7             | 0.86 (1)                  | I-E   | -1028 / 0                 | 0.52 (1)                  |  |
| H-F    | -1829 / 0                 | 0.0 0.0                   | 0.66 (1)                  | I-F   | 0 / 1869                  | 0.30 (1)                  |  |
| M-B    | -1897 / 0                 | 0.0 0.0                   | 0.20 (1)                  | B-L   | 0 / 1418                  | 0.32 (1)                  |  |
| M-L    | 0 / 0                     | -38.5 -38.5               | 0.07 (2)                  |       |                           |                           |  |
| L-K    | 0 / 1376                  | -38.5 -38.5               | 0.22 (1)                  |       |                           |                           |  |
| K-J    | 0 / 1042                  | -38.5 -38.5               | 0.36 (1)                  |       |                           |                           |  |
| J-I    | 0 / 1042                  | -38.5 -38.5               | 0.36 (1)                  |       |                           |                           |  |
| I-H    | -31 / 0                   | -38.5 -38.5               | 0.61 (1)                  |       |                           |                           |  |
| H-G    | 0 / 0                     | -38.5 -38.5               | 0.38 (1)                  |       |                           |                           |  |

| DESIGN CRITERIA       |      |      |     |
|-----------------------|------|------|-----|
| SPECIFIED LOADS:      |      |      |     |
| TOP CH.               | LL = | 38.2 | PSF |
|                       | DL = | 6.0  | PSF |
| BOT CH.               | LL = | 10.5 | PSF |
|                       | DL = | 7.0  | PSF |
| TOTAL LOAD = 61.7 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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 086-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.71")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.10")  
ALLOWABLE DEFL. (TL) = L/360 (0.71")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.16")

CSI: TC=0.86/1.00 (D-E-1), BC=0.61/1.00 (H-I-1), WG=0.52/1.00 (E-I-1), SS=0.64/1.00 (G-H-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 = 1.00

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        | MAX   | MIN                |
| MT20        | 618        | 354   | 1867 788 1987 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

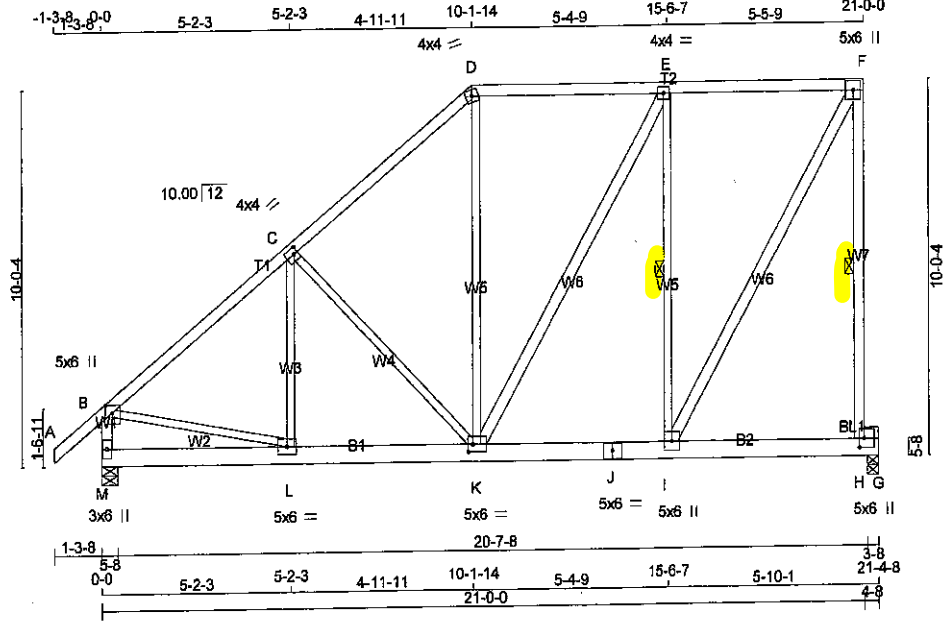
CSI GRIP= 0.90 (B) (INPUT = 0.90)  
CSI METAL= 0.39 (I) (INPUT = 1.00)

DRWG NO. TAM 11005205  
STRUCTURAL  
COMPONENT ONLY



|                           |                           |                      |                 |                          |          |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|
| JOB NAME<br><b>297078</b> | TRUSS NAME<br><b>T207</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|

Tamarack Roof Truss, Burlington  
Version 8.210 S May 18 2018 M/Tek Industries, Inc. Mon Aug 20 09:49:25 2018 Page 1  
ID: P28MfeCLvUenecsozG30C7zN96l-FhuCgBGsytm3lp6OXHi85iavWObaUf52Q3p1xzym7iC



TOTAL WEIGHT = 2 X 133 = 266 lb

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

| BEARING BLOCKS |     |     |      |
|----------------|-----|-----|------|
| BL1            | 2x4 | DRY | No.2 |

| ALL WEBS EXCEPT |     |     |      |
|-----------------|-----|-----|------|
| K - E           | 2x4 | DRY | No.2 |
| I - F           | 2x4 | DRY | No.2 |

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |        |      |     |               |
|-----------------------------|--------|------|-----|---------------|
| JT TYPE                     | PLATES | W    | LEN | Y X           |
| B                           | TMVW+p | MT20 | 5.0 | 6.0 2.50 2.25 |
| C                           | TMVW-t | MT20 | 4.0 | 4.0 2.00 1.25 |
| D                           | TMVW-m | MT20 | 4.0 | 4.0           |
| E                           | TMVW-t | MT20 | 4.0 | 4.0           |
| F                           | TMVW+p | MT20 | 5.0 | 6.0           |
| H                           | BMVK+p | MT20 | 5.0 | 6.0 3.00 1.75 |
| I                           | BMVW+t | MT20 | 5.0 | 6.0           |
| J                           | BS-t   | MT20 | 5.0 | 6.0           |
| K                           | BMVW-t | MT20 | 5.0 | 6.0 2.50 1.50 |
| L                           | BMVW-t | MT20 | 5.0 | 6.0           |
| M                           | BMV1+p | MT20 | 3.0 | 6.0           |

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

| BEARINGS |                         |                                 |           |
|----------|-------------------------|---------------------------------|-----------|
| JT       | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG |
| M        | 1976 0                  | 1976 0                          | 5-8       |
| G        | 1749 0                  | 1749 0                          | 3-8       |

| UNFACTORED REACTIONS |           |         |         |            |       |         |
|----------------------|-----------|---------|---------|------------|-------|---------|
| JT                   | 1ST LCASE | SNOW    | LIVE    | PERM. LIVE | WIND  | DEAD    |
| M                    | 1441      | 923 / 0 | 224 / 0 | 0 / 0      | 0 / 0 | 294 / 0 |
| G                    | 1286      | 789 / 0 | 224 / 0 | 0 / 0      | 0 / 0 | 273 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.14 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-H, E-I.

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 |                           |                           |                           |
|--------|---------------------------|---------------------------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) |
| FR-TO  |                           |                           |                           |
| A-B    | 0 / 57                    | -129.7 -129.7             | 0.18 (1)                  |
| B-C    | -1746 / 0                 | -129.7 -129.7             | 0.71 (1)                  |
| C-D    | -1342 / 0                 | -129.7 -129.7             | 0.65 (1)                  |
| D-E    | -992 / 0                  | -129.7 -129.7             | 0.68 (1)                  |
| E-F    | -871 / 0                  | -129.7 -129.7             | 0.67 (1)                  |
| H-F    | -1858 / 0                 | 0.0 0.0                   | 0.87 (1)                  |
| M-B    | -1890 / 0                 | 0.0 0.0                   | 0.19 (1)                  |
| M-L    | 0 / 0                     | -38.5 -38.5               | 0.08 (3)                  |
| L-K    | 0 / 1380                  | -38.5 -38.5               | 0.23 (1)                  |
| K-J    | 0 / 871                   | -38.5 -38.5               | 0.32 (1)                  |
| J-I    | 0 / 871                   | -38.5 -38.5               | 0.32 (1)                  |
| I-H    | -28 / 0                   | -38.5 -38.5               | 0.81 (1)                  |
| H-G    | 0 / 0                     | -38.5 -38.5               | 0.36 (1)                  |

| WEBS  |                           |                           |                           |
|-------|---------------------------|---------------------------|---------------------------|
| MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) | MAX. FACTORED FORCE (LBS) |
| FR-TO |                           |                           |                           |
| L-C   | -77 / 189                 | 0.04 (3)                  |                           |
| C-K   | -574 / 0                  | 0.62 (1)                  |                           |
| K-D   | 0 / 335                   | 0.06 (2)                  |                           |
| K-E   | 0 / 252                   | 0.04 (1)                  |                           |
| I-E   | -1090 / 0                 | 0.71 (1)                  |                           |
| I-F   | 0 / 1825                  | 0.29 (1)                  |                           |
| B-L   | 0 / 1413                  | 0.32 (1)                  |                           |

**DESIGN CRITERIA**

| SPECIFIED LOADS: |    |            |
|------------------|----|------------|
| TOP CH.          | LL | = 38.2 PSF |
| DL               | =  | 6.0 PSF    |
| BOT CH.          | LL | = 10.5 PSF |
| DL               | =  | 7.0 PSF    |
| TOTAL LOAD       | =  | 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 088-09, CSA 085-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.71")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")  
ALLOWABLE DEFL.(TL)= L/360 (0.71")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.87/1.00 (F-H:1), BC=0.61/1.00 (H-I:1), WB=0.71/1.00 (E-I:1), SS=0.64/1.00 (G-H: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 = 1.00

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

| NAIL VALUES     |             |                        |
|-----------------|-------------|------------------------|
| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PLI)          |
| MT20            | 618         | 354 1667 788 1987 1655 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90)  
JSI METAL= 0.38 (I) (INPUT = 1.00)

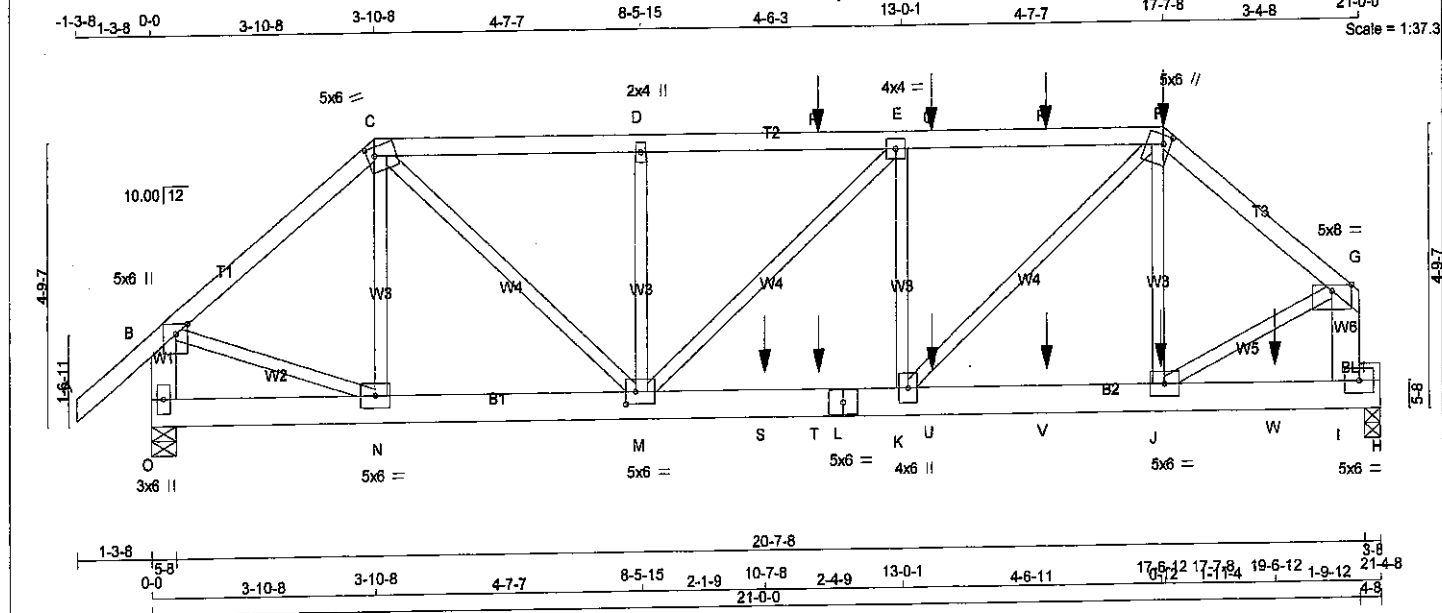
DRWG NO. TAM 17805206  
STRUCTURAL  
COMPONENT ONLY

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T208       | 1        | 2   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

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ID:P5XmF1xy53l8wCH47R2x3fzNvqf-7S7iWYJM06GUERQ9m7n4GYljZ7yPQZaeLhnE4kym?iK

Scale = 1:37.3



TOTAL WEIGHT =  $2 \times 106 = 211$  lb

| LUMBER      |      | LUMBER |      | DESCR |
|-------------|------|--------|------|-------|
| N. L. G. A. | SIZE |        |      |       |
| CHORDS      |      |        |      |       |
| A - C       | 2x4  | DRY    | No.2 | SPF   |
| C - F       | 2x4  | DRY    | No.2 | SPF   |
| F - G       | 2x4  | DRY    | No.2 | SPF   |
| O - B       | 2x6  | DRY    | No.2 | SPF   |
| I - G       | 2x6  | DRY    | No.2 | SPF   |
| O - L       | 2x6  | DRY    | No.2 | SPF   |
| L - H       | 2x6  | DRY    | No.2 | SPF   |

|                |     |     |      |     |
|----------------|-----|-----|------|-----|
| BEARING BLOCKS |     |     |      |     |
| BL1            | 2x4 | 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<br>SPACING (IN) | LOAD (PLF)  |
|------------------------------------------|-------|-------------------------|-------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |       |                         |             |
| A-C                                      | 1     | 12                      | TOP         |
| C-F                                      | 1     | 12                      | SIDE(81.0)  |
| F-G                                      | 1     | 12                      | SIDE(81.0)  |
| O-B                                      | 2     | 12                      | TOP         |
| L-G                                      | 2     | 12                      | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |       |                         |             |
| O-L                                      | 2     | 12                      | SIDE(0.0)   |
| L-H                                      | 2     | 12                      | SIDE(183.1) |
| WEBS : (0.122"x3") SPIRAL NAILS          |       |                         |             |
| 2x3                                      | 1     | 6                       |             |
| 2x4                                      | 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.

| <b><u>PLATES (table is in inches)</u></b> |        |        |     |     |      |      |
|-------------------------------------------|--------|--------|-----|-----|------|------|
| JT                                        | TYPE   | PLATES | W   | LEN | Y    | X    |
| B                                         | TMVW+p | MT20   | 5.0 | 6.0 | 2.00 | 2.25 |
| C                                         | TTWW-m | MT20   | 5.0 | 6.0 | 1.75 | 1.50 |
| D                                         | TMVW+  | MT20   | 2.0 | 4.0 |      |      |
| E                                         | TMVW-L | MT20   | 4.0 | 4.0 |      |      |
| F                                         | TTWW+m | MT20   | 5.0 | 6.0 | 1.75 | 1.50 |
| G                                         | TMVW-p | MT20   | 5.0 | 6.0 |      | Edge |
| H                                         | BMVK-L | MT20   | 5.0 | 8.0 |      |      |
| J                                         | BMVW-L | MT20   | 5.0 | 6.0 |      |      |
| K                                         | BMVW+L | MT20   | 4.0 | 6.0 |      |      |
| L                                         | BS-L   | MT20   | 5.0 | 6.0 |      |      |
| M                                         | BMVW-L | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| N                                         | BMVW-L | MT20   | 5.0 | 6.0 |      |      |
| O                                         | BMV+o  | MT20   | 3.0 | 6.0 |      |      |

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 | REQRD |
|----------------|------|----------------|------|------------------|--------|-------|-------|
| GROSS REACTION |      | GROSS REACTION |      |                  |        | BRG   | BRG   |
| JT             | VERT | HORZ           | DOWN | HORZ             | UPLIFT | IN-SX | IN-SX |
| O              | 2630 | 0              | 2630 | 0                | 0      | 5-8   | 5-8   |
| H              | 2804 | 0              | 2804 | 0                | 0      | 3-8   | 3-8   |

### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |         |           |       |         | SOIL  |
|-----------|----------|-------------------------------|---------|-----------|-------|---------|-------|
| JT        | COMBINED | SNOW                          | LIVE    | PERM.LIVE | WIND  | DEAD    |       |
| O         | 1911     | 1254 / 0                      | 288 / 0 | 0 / 0     | 0 / 0 | 368 / 0 | 0 / 0 |
| H         | 2045     | 1324 / 0                      | 332 / 0 | 0 / 0     | 0 / 0 | 368 / 0 | 0 / 0 |

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

## .BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.56 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

**LOADING**  
TOTAL LOAD CASES: (4)

| CHORDS        |           |          |          |          |               | WEBS  |               |          |  |
|---------------|-----------|----------|----------|----------|---------------|-------|---------------|----------|--|
| MAX. FACTORED |           | FACTORED |          |          | MAX. FACTORED |       | MAX. FACTORED |          |  |
| MEMB.         | FORCE     | VERT.    | LOCT     | MAX.     | MAX.          | MEMB. | FORCE         | MAX.     |  |
|               | (LBS)     | (PLF)    | CSI (LC) | UNBRAC   | LENGTH        |       | (LBS)         | CSI (LC) |  |
| FR-TO         |           | FROM     | TO       |          |               | FR-TO |               |          |  |
| A-B           | 0 / 57    | -129.7   | -129.7   | 0.10 (1) | 10.00         | N-C   | -438 / 13     | 0.07 (1) |  |
| B-C           | -2465 / 0 | -129.7   | -129.7   | 0.22 (1) | 5.51          | C-M   | 0 / 2191      | 0.27 (1) |  |
| C-D           | -3466 / 0 | -129.7   | -129.7   | 0.25 (1) | 4.79          | M-D   | -641 / 0      | 0.11 (1) |  |
| D-P           | -3466 / 0 | -129.7   | -129.7   | 0.35 (1) | 4.64          | E-E   | -211 / 0      | 0.07 (1) |  |
| P-E           | -3466 / 0 | -129.7   | -129.7   | 0.35 (1) | 4.64          | K-E   | -781 / 0      | 0.13 (1) |  |
| E-Q           | -3616 / 0 | -129.7   | -129.7   | 0.35 (1) | 4.56          | K-F   | 0 / 1882      | 0.25 (1) |  |
| Q-R           | -3616 / 0 | -129.7   | -129.7   | 0.35 (1) | 4.56          | J-F   | -358 / 88     | 0.06 (1) |  |
| R-F           | -3616 / 0 | -129.7   | -129.7   | 0.35 (1) | 4.56          | B-N   | 0 / 1864      | 0.24 (1) |  |
| F-G           | -2858 / 0 | -129.7   | -129.7   | 0.18 (1) | 5.29          | J-G   | 0 / 2824      | 0.33 (1) |  |
| O-B           | -2554 / 0 | 0.0      | 0.0      | 0.09 (1) | 7.81          |       |               |          |  |
| I-G           | -3284 / 0 | 0.0      | 0.0      | 0.13 (1) | 7.86          |       |               |          |  |
|               |           |          |          |          |               |       |               |          |  |
| Q-N           | 0 / 0     | -38.5    | -38.5    | 0.03 (2) | 10.00         |       |               |          |  |
| N-M           | 0 / 1878  | -38.5    | -38.5    | 0.23 (1) | 10.00         |       |               |          |  |
| M-S           | 0 / 3616  | -38.5    | -38.5    | 0.54 (1) | 10.00         |       |               |          |  |
| S-T           | 0 / 3616  | -38.5    | -38.5    | 0.54 (1) | 10.00         |       |               |          |  |
| T-L           | 0 / 3616  | -38.5    | -38.5    | 0.54 (1) | 10.00         |       |               |          |  |
| L-K           | 0 / 3616  | -38.5    | -38.5    | 0.54 (1) | 10.00         |       |               |          |  |
| K-U           | 0 / 2180  | -38.5    | -38.5    | 0.28 (1) | 10.00         |       |               |          |  |
| U-V           | 0 / 2180  | -38.5    | -38.5    | 0.28 (1) | 10.00         |       |               |          |  |
| V-J           | 0 / 2180  | -38.5    | -38.5    | 0.26 (1) | 10.00         |       |               |          |  |
| J-W           | -479 / 0  | -38.5    | -38.5    | 0.81 (1) | 6.25          |       |               |          |  |
| W-I           | -479 / 0  | -38.5    | -38.5    | 0.61 (1) | 6.25          |       |               |          |  |
| I-H           | 0 / 0     | -188.2   | -166.2   | 0.38 (1) | 6.25          |       |               |          |  |

09/20/14

H.J.G. ALL

PROVINCE OF ONT.

## SPECIFIED CONCENTRATED LOADS (LBS)

| SPEEKFLOP CONCEPTS (10/1/77) |         |      |      |      |      |      |       |  |  |
|------------------------------|---------|------|------|------|------|------|-------|--|--|
| JT                           | LOC     | LC1  | MAX  | MAX+ | FACE | DIR  | TYPE  |  |  |
| F                            | 17-8-12 | -202 | -202 | -    | BACK | VERT | TOTAL |  |  |
| P                            | 17-6-12 | -26  | -26  | -    | BACK | VERT | TOTAL |  |  |
| J                            | 11-6-12 | -83  | -83  | -    | BACK | VERT | TOTAL |  |  |
| Q                            | 13-6-12 | -83  | -83  | -    | BACK | VERT | TOTAL |  |  |
| R                            | 15-6-12 | -83  | -83  | -    | BACK | VERT | TOTAL |  |  |
| S                            | 10-7-8  | -823 | -823 | -    | BACK | VERT | TOTAL |  |  |
| T                            | 11-6-12 | -21  | -21  | -    | BACK | VERT | TOTAL |  |  |
| U                            | 13-6-12 | -21  | -21  | -    | BACK | VERT | TOTAL |  |  |
| V                            | 15-6-12 | -21  | -21  | -    | BACK | VERT | TOTAL |  |  |
| W                            | 19-8-12 | -11  | -16  | -    | BACK | VERT | TOTAL |  |  |

## DESIGN CRITERIA

**SPECIFIED LOADS:**

|                  |      |      |          |
|------------------|------|------|----------|
| SPECIFIED LOADS: |      |      |          |
| TOP CH.          | LL = | 38.2 | PSF      |
|                  | DL = | 6.0  | PSF      |
| BOT CH.          | LL = | 10.5 | PSF      |
|                  | DL = | 7.0  | PSF      |
| TOTAL LOAD       |      | =    | 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.71")  
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")  
ALLOWABLE DEFL.(TL)= L/360 (0.71")  
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.13")

CSI: TC=0.35/1.00 (E-F:1), BC=0.61/1.00 (I-J:1)  
WB=0.36/1.00 (G-J:1), SSI=0.57/1.00 (H-I: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 = 1.00

AUTOSOLVE HEELS OFF

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

| PLATE | GRIP(DRY)<br>(PSI) |     | SHEAR<br>(PLI) |     | SECTION<br>(PLI) |      |
|-------|--------------------|-----|----------------|-----|------------------|------|
|       | MAX                | MIN | MAX            | MIN | MAX              | MIN  |
| MT20  | 618                | 354 | 1667           | 788 | 1987             | 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (M) (INPUT = 0.90 )  
JSI METAL= 0.44 (L) (INPUT = 1.00 )

DWG NO. TAM 11805207  
STRUCTURAL  
CONCREMENT ONLY

CONTINUED ON PAGE 2



| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T208       | 1        | 2   | TRUSS DESC. |          |

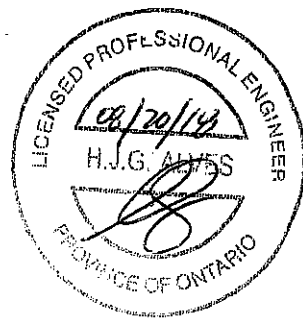
Tamarack Roof Truss, Burlington

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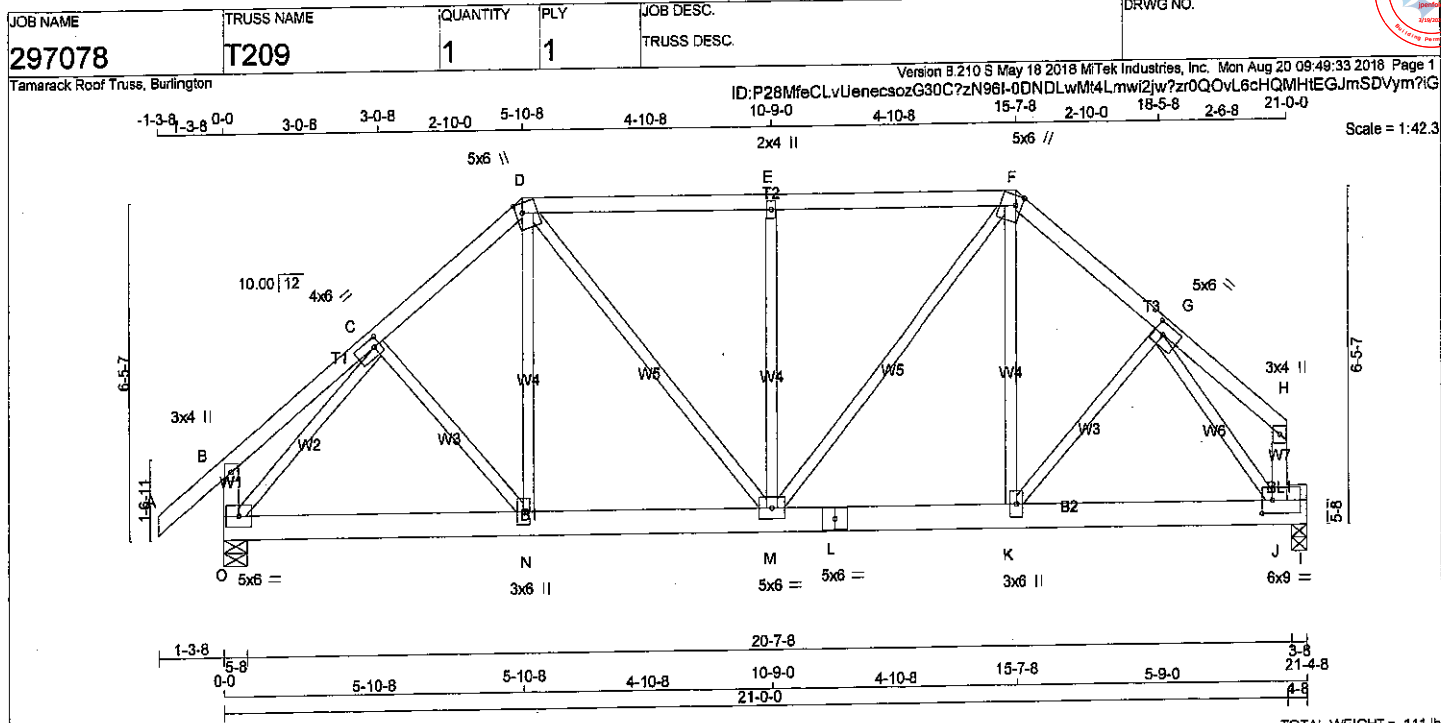
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**HANGERS NOTES**

1) SPECIAL HANGER(S) OR CONNECTION(S)  
REQUIRED TO SUPPORT CONCENTRATED  
LOAD(S) 121.6 lbs FACTORED DOWN AT  
11-6-12, 121.6 lbs FACTORED DOWN AT  
13-6-12, AND 121.6 lbs FACTORED DOWN AT  
15-6-12, AND 282.9 lbs FACTORED DOWN AT  
17-7-8 ON TOP CHORD, AND 872.4 lbs  
FACTORED DOWN AT 10-7-8, 30.9 lbs  
FACTORED DOWN AT 11-6-12, 30.9 lbs  
FACTORED DOWN AT 13-6-12, 30.9 lbs  
FACTORED DOWN AT 15-6-12, AND 38.0 lbs  
FACTORED DOWN AT 17-6-12, AND 23.5 lbs  
FACTORED DOWN AT 19-6-12 ON BOTTOM  
CHORD. DESIGN FOR UNSPECIFIED  
CONNECTION(S) IS DELEGATED TO THE  
BUILDING DESIGNER.



DWG NO. TAM 11805207  
STRUCTURAL  
COMPONENT ONLY 2/2



| LUMBER                |      |        |        |
|-----------------------|------|--------|--------|
| N. L. G. A. RULES     |      |        |        |
| CHORDS                | SIZE | LUMBER | DESCR. |
| A - D                 | 2x4  | DRY    | No.2   |
| D - F                 | 2x4  | DRY    | No.2   |
| F - H                 | 2x4  | DRY    | No.2   |
| O - B                 | 2x4  | DRY    | No.2   |
| J - H                 | 2x4  | DRY    | No.2   |
| O - L                 | 2x6  | DRY    | No.2   |
| L - I                 | 2x6  | DRY    | No.2   |
| BEARING BLOCKS        |      |        |        |
| BL1                   | 2x4  | DRY    | No.2   |
| ALL WEBS 2x3 DRY      |      |        |        |
| 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+1 | MT20   | 4.0 | 6.0 2.00 1.50 |
| D                           | TTWV+m | MT20   | 5.0 | 6.0 2.25 1.50 |
| E                           | TMVW+m | MT20   | 2.0 | 4.0           |
| F                           | TTWV+m | MT20   | 5.0 | 6.0 2.25 1.50 |
| G                           | TMVW+1 | MT20   | 5.0 | 6.0 2.50 2.25 |
| H                           | TMV+p  | MT20   | 3.0 | 4.0           |
| J                           | BMVW+k | MT20   | 6.0 | 9.0 3.00 2.50 |
| K                           | BMVW+t | MT20   | 3.0 | 6.0           |
| L                           | BS+1   | MT20   | 5.0 | 6.0           |
| M                           | BMVW+1 | MT20   | 5.0 | 6.0           |
| N                           | BMVW+1 | MT20   | 3.0 | 5.0           |
| O                           | BMVW+1 | MT20   | 5.0 | 6.0           |

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

| BEARINGS       |                  |        |       |
|----------------|------------------|--------|-------|
| FACTORED       | MAXIMUM FACTORED | INPUT  | REQRD |
| GROSS REACTION | GROSS REACTION   | BRG    | BRG   |
| VERT           | DOWN             | UPLIFT | IN-SX |
| 1976           | 0                | 0      | 5-8   |
| 1749           | 0                | 0      | 3-8   |

| UNFACTORED REACTIONS |         |         |           |       |         |
|----------------------|---------|---------|-----------|-------|---------|
| 1ST LCASE            | SNOW    | LIVE    | PERM.LIVE | WIND  | DEAD    |
| 1441                 | 923 / 0 | 224 / 0 | 0 / 0     | 0 / 0 | 294 / 0 |
| 1286                 | 769 / 0 | 224 / 0 | 0 / 0     | 0 / 0 | 273 / 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 = 4.40 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 LC1 (PLF) | MAX. UNBRACED LENGTH FR-TO (LC) |
| A-B    | 0 / 57                    | -129.7 -129.7                 | 0.18 (1)                        |
| B-C    | 0 / 25                    | -129.7 -129.7                 | 0.15 (1)                        |
| C-D    | -1700 / 0                 | -129.7 -129.7                 | 0.20 (1)                        |
| D-E    | -1632 / 0                 | -129.7 -129.7                 | 0.57 (1)                        |
| E-F    | -1632 / 0                 | -129.7 -129.7                 | 0.57 (1)                        |
| F-G    | -1719 / 0                 | -129.7 -129.7                 | 0.18 (1)                        |
| G-H    | 0 / 39                    | -129.7 -129.7                 | 0.14 (1)                        |
| H-I    | -329 / 0                  | 0.0 0.0                       | 0.03 (1)                        |
| I-J    | -108 / 0                  | 0.0 0.0                       | 0.01 (1)                        |
| O-N    | 0 / 1268                  | -38.5 -38.5                   | 0.23 (1)                        |
| N-M    | 0 / 1286                  | -38.5 -38.5                   | 0.23 (2)                        |
| M-L    | 0 / 1305                  | -38.5 -38.5                   | 0.38 (1)                        |
| L-K    | 0 / 1305                  | -38.5 -38.5                   | 0.38 (1)                        |
| K-J    | 0 / 1103                  | -38.5 -38.5                   | 0.74 (1)                        |
| J-I    | 0 / 0                     | -38.5 -38.5                   | 0.38 (1)                        |

**DESIGN CRITERIA**

| SPECIFIED LOADS: |               |
|------------------|---------------|
| TOP CH.          | LL = 38.2 PSF |
| DL               | = 8.0 PSF     |
| BOT CH.          | LL = 10.5 PSF |
| DL               | = 7.0 PSF     |
| TOTAL LOAD       | = 61.7 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, NBC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.71")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.08")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.71")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.13")

CSI: TC=0.57/1.00 (E-F-1), BC=0.74/1.00 (J-K-1), WB=0.66/1.00 (O-C-1), SS=0.64/1.00 (I-J-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 = 1.00

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

| NAIL VALUES |           |       |               |
|-------------|-----------|-------|---------------|
| PLATE       | GRIP(DRY) | SHEAR | SECTION (PLI) |
| MT20        | 618       | 354   | 1667          |
|             | 788       | 1987  | 1656          |

PLATE PLACEMENT TOL = 0.250 inches

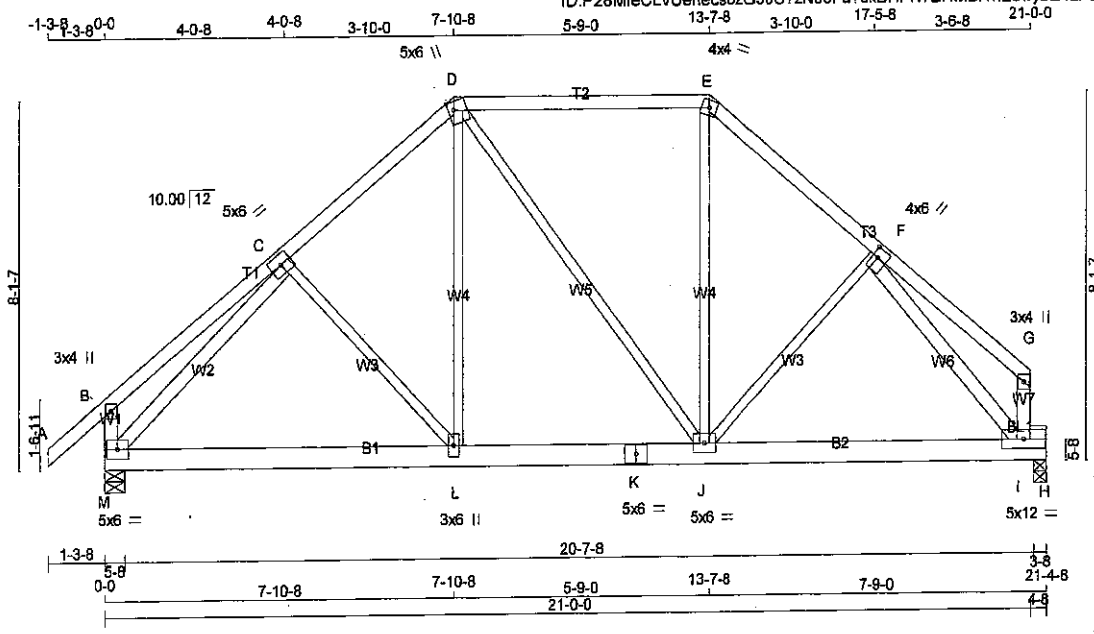
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.88 (J) (INPUT = 0.90)  
JSI METAL= 0.50 (G) (INPUT = 1.00)

DWG NO. TAM 11805208  
STRUCTURAL



|                                                                                 |                           |                      |                 |                                 |          |
|---------------------------------------------------------------------------------|---------------------------|----------------------|-----------------|---------------------------------|----------|
| JOB NAME<br><b>297078</b>                                                       | TRUSS NAME<br><b>T210</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>TRUSS DESC.</b> | DRWG NO. |
| Version 8.210 S May 18 2018 Mitek Industries, Inc. Mon Aug 20 09:37 2018 Page 1 |                           |                      |                 |                                 |          |
| ID: P28MfeCLvUenecsozG30C7zN86l-u?ckBHPN7ZHMBf1hEowbybE4zPEfBI3ppBwktMGym?iC    |                           |                      |                 |                                 |          |



TOTAL WEIGHT = 114 lb

| LUMBER                |        |      |        |
|-----------------------|--------|------|--------|
| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER |
| A - D                 | 2x4    | DRY  | No.2   |
| D - E                 | 2x4    | DRY  | No.2   |
| E - G                 | 2x4    | DRY  | No.2   |
| M - G                 | 2x4    | DRY  | No.2   |
| I - G                 | 2x4    | DRY  | No.2   |
| M - K                 | 2x6    | DRY  | No.2   |
| K - H                 | 2x6    | DRY  | No.2   |
| BEARING BLOCKS        |        |      |        |
| BL1                   | 2x4    | DRY  | No.2   |
| ALL WEBS              |        |      |        |
| EXCEPT                | 2x3    | DRY  | No.2   |
| M - C                 | 2x4    | DRY  | No.2   |
| F - I                 | 2x4    | DRY  | No.2   |
| 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   | 5.0 | 6.0           |
| D                           | TTWW+m  | MT20   | 5.0 | 6.0 2.25 1.50 |
| E                           | TTW-m   | MT20   | 4.0 | 4.0           |
| F                           | TMWW+t  | MT20   | 4.0 | 6.0 2.50 1.50 |
| G                           | TMV+p   | MT20   | 3.0 | 4.0           |
| I                           | BMVWK-t | MT20   | 5.0 | 12.0          |
| J                           | BMVWW-t | MT20   | 5.0 | 6.0           |
| K                           | BS-t    | MT20   | 5.0 | 6.0           |
| L                           | BMVWW-t | MT20   | 3.0 | 6.0           |
| M                           | 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  | UPLIFT |
| M              | 1976             | 0     | 0      |
| H              | 1748             | 0     | 0      |

| UNFACTORED REACTIONS |          |           |           |           |       |         |
|----------------------|----------|-----------|-----------|-----------|-------|---------|
| 1ST LCASE            | MAX/MIN  | COMPONENT | REACTIONS |           |       |         |
| JT                   | COMBINED | SNOW      | LIVE      | PERM.LIVE | WIND  | DEAD    |
| M                    | 1441     | 923 / 0   | 224 / 0   | 0 / 0     | 0 / 0 | 284 / 0 |
| H                    | 1286     | 789 / 0   | 224 / 0   | 0 / 0     | 0 / 0 | 273 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.32 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 UNBRACED LENGTH (FT) |
| FR-TO  |                           |                           |                                    |
| A-B    | 0 / 57                    | -129.7                    | 10.00                              |
| B-C    | 0 / 38                    | -129.7                    | 10.00                              |
| C-D    | -1564 / 0                 | -129.7                    | 10.00                              |
| D-E    | -1204 / 0                 | -129.7                    | 10.00                              |
| E-F    | -1598 / 0                 | -129.7                    | 10.00                              |
| F-G    | 0 / 57                    | -129.7                    | 10.00                              |
| M-B    | -373 / 0                  | 0.0                       | 10.00                              |
| I-G    | -149 / 0                  | 0.0                       | 10.00                              |
| M-L    | 0 / 1303                  | -38.5                     | 10.00                              |
| L-K    | 0 / 1174                  | -38.5                     | 10.00                              |
| K-J    | 0 / 1174                  | -38.5                     | 10.00                              |
| J-I    | 0 / 1188                  | -38.5                     | 10.00                              |
| I-H    | 0 / 0                     | -38.5                     | 10.00                              |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 38.2 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.71")  
CALCULATED VERT. DEFL.(LL) = L/998 (0.13")  
ALLOWABLE DEFL.(TL) = L/360 (0.71")  
CALCULATED VERT. DEFL.(TL) = L/998 (0.23")

CSI: TC=0.81/1.00 (D-E), BC=0.75/1.00 (H-I),  
WB=0.79/1.00 (C-M), SSF=0.64/1.00 (H-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 788 1987 1856

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

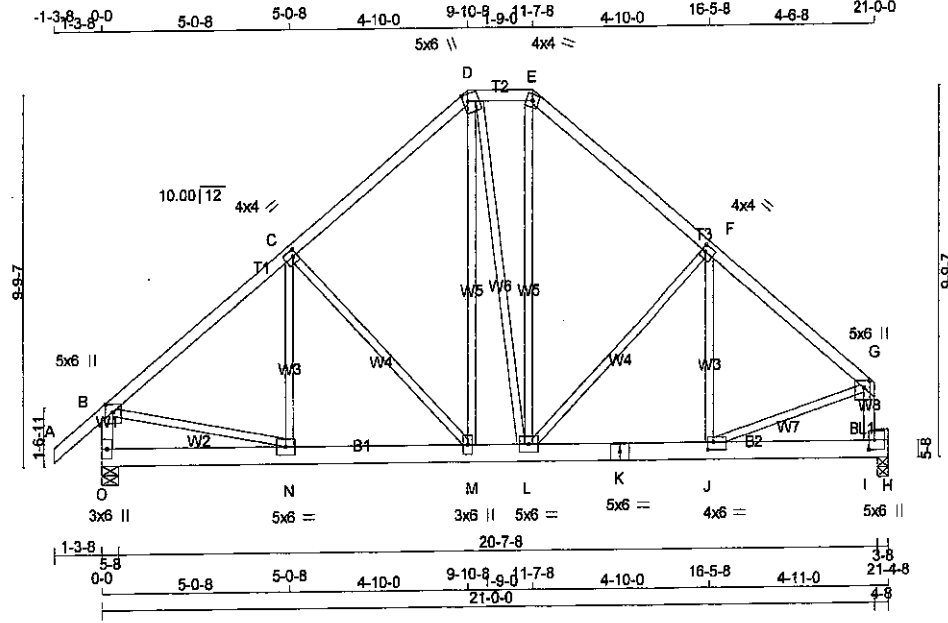
TRUSS GRIP= 0.88 (E) (INPUT = 0.90)  
TRUSS METAL= 0.87 (F) (INPUT = 1.00)

DWG NO. TAM 1805209  
STRUCTURAL  
CONSTRUCTION ONLY



|                           |                           |                      |                 |                          |          |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|
| JOB NAME<br><b>297078</b> | TRUSS NAME<br><b>T211</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|

Tamarack Roof Truss, Burlington  
Version 8.210 S May 18 2018 MiTek Industries, Inc. Mon Aug 20 09:49:41 2018 Page 1  
ID: P28MfeCLvUenecsozG30C7zN961-nmsF1f5uBonoghKKTTe?u13Fmfr21ExgP5YtW2ym?i8  
Scale = 1:58.3



TOTAL WEIGHT = 123 lb

| LUMBER                |      |        |        |
|-----------------------|------|--------|--------|
| N. L. G. A. RULES     |      |        |        |
| CHORDS                | SIZE | LUMBER | DESCR. |
| A - D                 | 2x4  | DRY    | No.2   |
| D - E                 | 2x4  | DRY    | No.2   |
| E - G                 | 2x4  | DRY    | No.2   |
| O - B                 | 2x4  | DRY    | No.2   |
| I - G                 | 2x4  | DRY    | No.2   |
| O - K                 | 2x6  | DRY    | No.2   |
| K - H                 | 2x6  | DRY    | No.2   |
| BEARING BLOCKS        |      |        |        |
| BL1                   | 2x4  | DRY    | No.2   |
| 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   | 5.0 | 6.0 2.50 2.25 |
| C                           | TMVW-t | MT20   | 4.0 | 4.0 2.00 1.25 |
| D                           | TTWW+m | MT20   | 5.0 | 6.0 2.25 1.50 |
| E                           | TTW-m  | MT20   | 4.0 | 4.0           |
| F                           | TMVW-t | MT20   | 4.0 | 4.0 2.00 1.25 |
| G                           | TMVW+p | MT20   | 5.0 | 6.0 2.25 2.00 |
| I                           | BMVK+p | MT20   | 5.0 | 6.0 3.00 1.75 |
| J                           | BMVW-t | MT20   | 4.0 | 6.0 2.50 1.75 |
| K                           | BS-t   | MT20   | 5.0 | 6.0           |
| L                           | BMVW-t | MT20   | 5.0 | 6.0           |
| M                           | BMVW-t | MT20   | 3.0 | 6.0           |
| N                           | BMVW-t | MT20   | 5.0 | 6.0           |
| O                           | BMV1+p | MT20   | 3.0 | 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                      | DOWN                      | HORIZ               | UPLIFT                    | IN-SX | IN-SX                     |               |                           |  |
| O                                                                                             | 1976                      | 0                         | 1976                | 0                         | 5-8   | 5-8                       |               |                           |  |
| H                                                                                             | 1749                      | 0                         | 1749                | 0                         | 3-8   | 3-8                       |               |                           |  |
| UNFACTORED REACTIONS                                                                          |                           |                           |                     |                           |       |                           |               |                           |  |
| 1ST LCASE                                                                                     | MAX                       | MIN                       | COMPONENT REACTIONS |                           |       |                           |               |                           |  |
| JT                                                                                            | COMBINED                  | SNOW                      | LIVE                | PERM                      | LIVE  | WIND                      | DEAD          | SOIL                      |  |
| O                                                                                             | 1441                      | 923 / 0                   | 224 / 0             | 0 / 0                     | 0 / 0 | 0 / 0                     | 294 / 0       | 0 / 0                     |  |
| H                                                                                             | 1286                      | 789 / 0                   | 224 / 0             | 0 / 0                     | 0 / 0 | 0 / 0                     | 273 / 0       | 0 / 0                     |  |
| BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, H                                    |                           |                           |                     |                           |       |                           |               |                           |  |
| BRACING                                                                                       |                           |                           |                     |                           |       |                           |               |                           |  |
| TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.22 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) | MAX. LC1 (LC)       | MAX. UNBRACED LENGTH (FT) | MEMB  | MAX. FACTORED FORCE (LBS) | MAX. LC1 (LC) | MAX. UNBRACED LENGTH (FT) |  |
| FR-TO                                                                                         |                           | FROM                      | TO                  |                           | FR-TO |                           |               |                           |  |
| A-B                                                                                           | 0 / 57                    | -129.7                    | -129.7              | 0.18 (1)                  | 10.00 | N-C                       | -94 / 166     | 0.04 (1)                  |  |
| B-C                                                                                           | -1747 / 0                 | -129.7                    | -129.7              | 0.67 (1)                  | 4.22  | C-M                       | -543 / 0      | 0.55 (1)                  |  |
| C-D                                                                                           | -1370 / 0                 | -129.7                    | -129.7              | 0.51 (1)                  | 4.70  | M-D                       | 0 / 486       | 0.11 (1)                  |  |
| D-E                                                                                           | -1019 / 0                 | -129.7                    | -129.7              | 0.08 (1)                  | 6.12  | D-L                       | 0 / 20        | 0.00 (3)                  |  |
| E-F                                                                                           | -1368 / 0                 | -129.7                    | -129.7              | 0.55 (1)                  | 4.82  | L-E                       | 0 / 493       | 0.11 (1)                  |  |
| F-G                                                                                           | -1751 / 0                 | -129.7                    | -129.7              | 0.58 (1)                  | 4.33  | L-F                       | -543 / 0      | 0.55 (1)                  |  |
| G-H                                                                                           | -1801 / 0                 | 0.0                       | 0.0                 | 0.19 (1)                  | 6.10  | J-F                       | -53 / 165     | 0.04 (3)                  |  |
| I-G                                                                                           | -1913 / 0                 | 0.0                       | 0.0                 | 0.21 (1)                  | 6.07  | B-N                       | 0 / 1414      | 0.32 (1)                  |  |
|                                                                                               |                           |                           |                     |                           |       | J-G                       | 0 / 1650      | 0.37 (1)                  |  |
| O-N                                                                                           | 0 / 0                     | -38.5                     | -38.5               | 0.08 (3)                  | 10.00 |                           |               |                           |  |
| N-M                                                                                           | 0 / 1380                  | -38.5                     | -38.5               | 0.22 (1)                  | 10.00 |                           |               |                           |  |
| M-L                                                                                           | 0 / 1016                  | -38.5                     | -38.5               | 0.14 (1)                  | 10.00 |                           |               |                           |  |
| L-K                                                                                           | 0 / 1382                  | -38.5                     | -38.5               | 0.32 (1)                  | 10.00 |                           |               |                           |  |
| K-J                                                                                           | 0 / 1382                  | -38.5                     | -38.5               | 0.32 (1)                  | 10.00 |                           |               |                           |  |
| J-I                                                                                           | -179 / 0                  | -38.5                     | -38.5               | 0.61 (1)                  | 6.25  |                           |               |                           |  |
| I-H                                                                                           | 0 / 0                     | -38.5                     | -38.5               | 0.38 (1)                  | 10.00 |                           |               |                           |  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 38.2 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) =  $L/360$  (0.71")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.07")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.71")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.11")

CSI: TC=0.67/1.00 (B-C:1), BC=0.61/1.00 (I-J:1), WB=0.55/1.00 (F-L:1), SSI=0.64/1.00 (H-I:1)

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

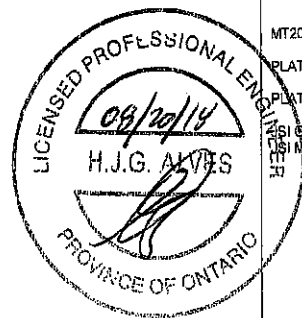
COMPANION LIVE LOAD FACTOR = 1.00

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 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches  
PLATE ROTATION TOL. = 5.0 Deg.  
CSI GRIP = 0.90 (J) (INPUT = 0.90)  
CSI METAL = 0.39 (J) (INPUT = 1.00)

DWG NO. TAM 11405210  
STRUCTURAL  
COMPONENT ONLY



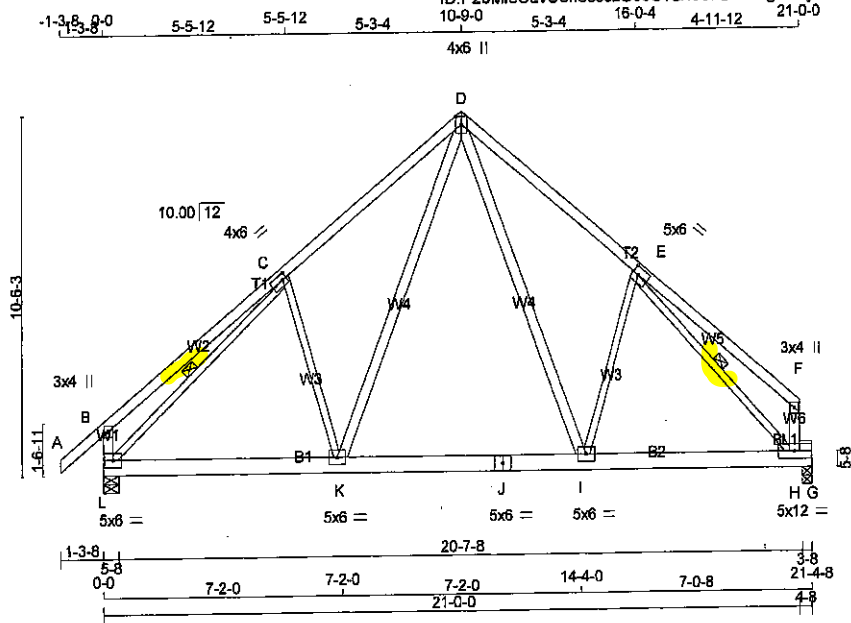


| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 297078   | T212       | 1        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

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ID: P28MfeCLvUenecsozG30C7zN96f-BLXNfgVnUj9MXk318mYbNtA622bRF0rbVwX6Mym?5



Scale = 1:64.7

TOTAL WEIGHT = 119 lb

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

| BEARING BLOCKS |     |     |      |
|----------------|-----|-----|------|
| BL1            | 2x4 | DRY | No.2 |
| ALL WEBS       |     |     |      |
| EXCEPT         | 2x3 | DRY | No.2 |
| K - D          | 2x4 | DRY | No.2 |
| D - I          | 2x4 | DRY | No.2 |

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 | 6.0 2.00 1.50 |
| D                           | TTWW+p  | MT20   | 4.0 | 6.0 Edge      |
| E                           | TMWW-t  | MT20   | 5.0 | 6.0 2.50 2.00 |
| F                           | TMV+p   | MT20   | 3.0 | 4.0           |
| H                           | BMVWK-t | MT20   | 5.0 | 12.0          |
| I                           | BMWW-t  | MT20   | 5.0 | 6.0           |
| J                           | BS-t    | MT20   | 5.0 | 6.0           |
| K                           | BMWW-t  | MT20   | 5.0 | 6.0           |
| L                           | BMVW-t  | MT20   | 5.0 | 6.0           |

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 |       | REQD |       |
|----------|------|----------------|------|------------------|------|-------|-------|------|-------|
| JT       | VERT | GROSS REACTION | DOWN | GROSS REACTION   | DOWN | BRG   | IN-SX | BRG  | IN-SX |
| L        | 1976 | 0              | 1976 | 0                | 0    | 5-8   | 5-8   | 5-8  | 5-8   |
| G        | 1749 | 0              | 1749 | 0                | 0    | 3-8   | 3-8   | 3-8  | 3-8   |

| UNFACTORED REACTIONS |           | MAX/MIN COMPONENT REACTIONS |         |           |       |         |       |
|----------------------|-----------|-----------------------------|---------|-----------|-------|---------|-------|
| JT                   | 1ST LCASE | SNOW                        | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |
|                      | COMBINED  |                             |         |           |       |         |       |
| L                    | 1441      | 923 / 0                     | 224 / 0 | 0 / 0     | 0 / 0 | 294 / 0 | 0 / 0 |
| G                    | 1266      | 789 / 0                     | 224 / 0 | 0 / 0     | 0 / 0 | 273 / 0 | 0 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.13 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 C-L, E-H.

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) | MEMB.                 | MAX. FACTORED FORCE (LBS) |
| FR-TO   |                           | FR-TO                 |                           |
| A-B     | 0 / 57                    | C-K                   | -478 / 5                  |
| B-C     | 0 / 54                    | D-I                   | 0 / 761                   |
| C-D     | -1626 / 0                 | E-H                   | -288 / 65                 |
| D-E     | -1648 / 0                 | L-C                   | -1957 / 0                 |
| E-F     | 0 / 80                    | H-F                   | -2077 / 0                 |
| F-G     | -441 / 0                  |                       |                           |
| G-H     | -212 / 0                  |                       |                           |
|         |                           |                       |                           |
| L-K     | 0 / 1362                  |                       |                           |
| K-J     | 0 / 949                   |                       |                           |
| J-I     | 0 / 949                   |                       |                           |
| I-H     | 0 / 1315                  |                       |                           |
| H-G     | 0 / 0                     |                       |                           |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 38.2 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 PSF

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 64.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.71")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.12")  
ALLOWABLE DEFL. (TL) = L/360 (0.71")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.10")

CSI: TC=0.78/1.00 (C-D:1), BC=0.76/1.00 (H-I:1), WB=0.78/1.00 (C-L:1), SS=0.64/1.00 (G-H: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 = 1.00

AUTOSOLVE HEELS OFF

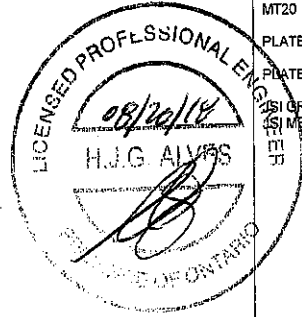
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

| NAIL VALUES |           |       |         |
|-------------|-----------|-------|---------|
| PLATE       | GRIP(DRY) | SHEAR | SECTION |
|             | (PSI)     | (PLI) | (PLI)   |
| MT20        | 618       | 354   | 1867    |
|             | 788       | 1987  | 1856    |

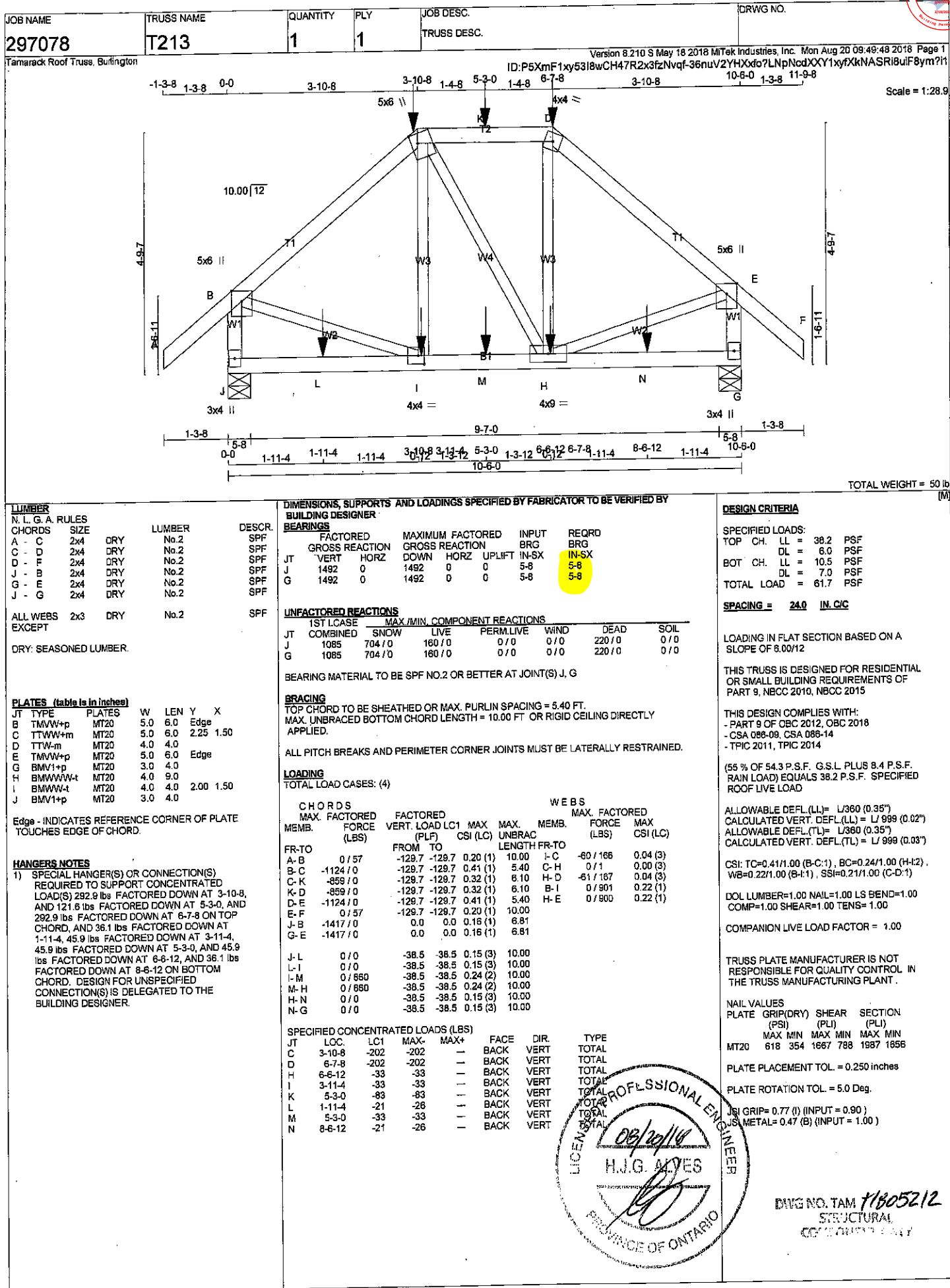
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

CSI GRIP = 0.84 (H) (INPUT = 0.90)  
CSI METAL = 0.54 (E) (INPUT = 1.00)



DRWG NO. TAM 17805211  
STRUCTURAL  
CONSULTANT ONLY





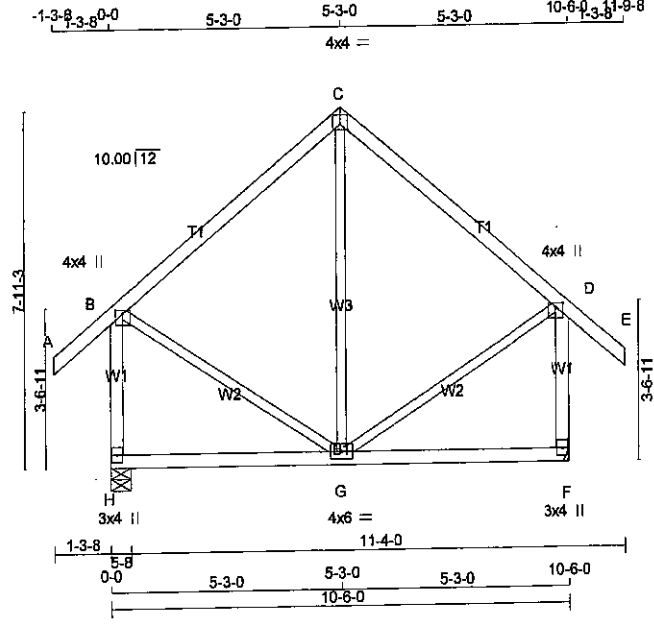
|                           |                           |                      |                 |                          |          |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|
| JOB NAME<br><b>297078</b> | TRUSS NAME<br><b>T214</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|

Tamarack Roof Truss, Burlington

ID: P28MfeCLvUenecsozG30C?zn96l-yt0PLQbobAAEUzgacShTiOCc8HvaJ?J1dmsyNvym?h2

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Scale = 1:49.1



TOTAL WEIGHT = 54 lb

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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |         |        |     |     |           |
|-----------------------------|---------|--------|-----|-----|-----------|
| JT                          | TYPE    | PLATES | W   | LEN | X         |
| B                           | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 2.00 |
| C                           | TTW-p   | MT20   | 4.0 | 4.0 | 1.50 2.00 |
| D                           | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 2.00 |
| F                           | BMV1+p  | MT20   | 3.0 | 4.0 |           |
| G                           | BMVWW-t | MT20   | 4.0 | 6.0 |           |
| H                           | BMV1+p  | MT20   | 3.0 | 4.0 |           |

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

| FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG |        | REQD BRG   |            |
|-------------------------|------|---------------------------------|------|-----------|--------|------------|------------|
| JT                      | VERT | HORZ                            | DOWN | HORZ      | UPLIFT | IN-SX      | IN-SX      |
| H                       | 1062 | 0                               | 1062 | 0         | 0      | 5-8        | 5-8        |
| F                       | 1062 | 0                               | 1062 | 0         | 0      | MECHANICAL | MECHANICAL |

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT F.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|------------------------------|------------|-------|---------|-------|
| H  | COMBINED  | SNOW                         | LIVE       |       |         |       |
| F  | 771       | 507 / 0                      | 110 / 0    | 0 / 0 | 153 / 0 | 0 / 0 |
| F  | 771       | 507 / 0                      | 110 / 0    | 0 / 0 | 153 / 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 |                           | FACTORED         |                        | WEBS  |                           |
|--------|---------------------------|------------------|------------------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | MAX. FACTORED CS1 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           | FROM TO          |                        | FR-TO |                           |
| A-B    | 0 / 57                    | -129.7 -129.7    | 0.18 (1)               | G-C   | -144 / 151                |
| B-C    | -419 / 0                  | -129.7 -129.7    | 0.48 (1)               | B-G   | 0 / 378                   |
| C-D    | -419 / 0                  | -129.7 -129.7    | 0.48 (1)               | G-D   | 0 / 378                   |
| D-E    | 0 / 57                    | -129.7 -129.7    | 0.18 (1)               |       |                           |
| H-B    | -986 / 0                  | 0.0              | 0.0 0.21 (1)           |       |                           |
| F-D    | -986 / 0                  | 0.0              | 0.0 0.21 (1)           |       |                           |
| H-G    | 0 / 0                     | -38.5 -38.5      | 0.24 (3)               |       |                           |
| G-F    | 0 / 0                     | -38.5 -38.5      | 0.24 (3)               |       |                           |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 38.2 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 PSF

**SPACING = 24.0 IN. CC**

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.35")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.35")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.46/1.00 (B-C:1), BC=0.24/1.00 (G-H:3), WB=0.17/1.00 (C-G:1), SS=0.20/1.00 (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 = 1.00

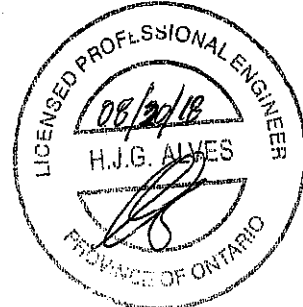
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

| NAIL VALUES |           |       |                    |
|-------------|-----------|-------|--------------------|
| PLATE       | GRIP(DRY) | SHEAR | SECTION            |
|             | (PSI)     | (PLI) | (PLI)              |
| MT20        | 618       | 354   | 1667 788 1987 1656 |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.74 (D) (INPUT = 0.90)  
JSI METAL= 0.20 (B) (INPUT = 1.00)



DWG NO. TAM 11805213  
STRUCTURAL  
CONSTRUCTION



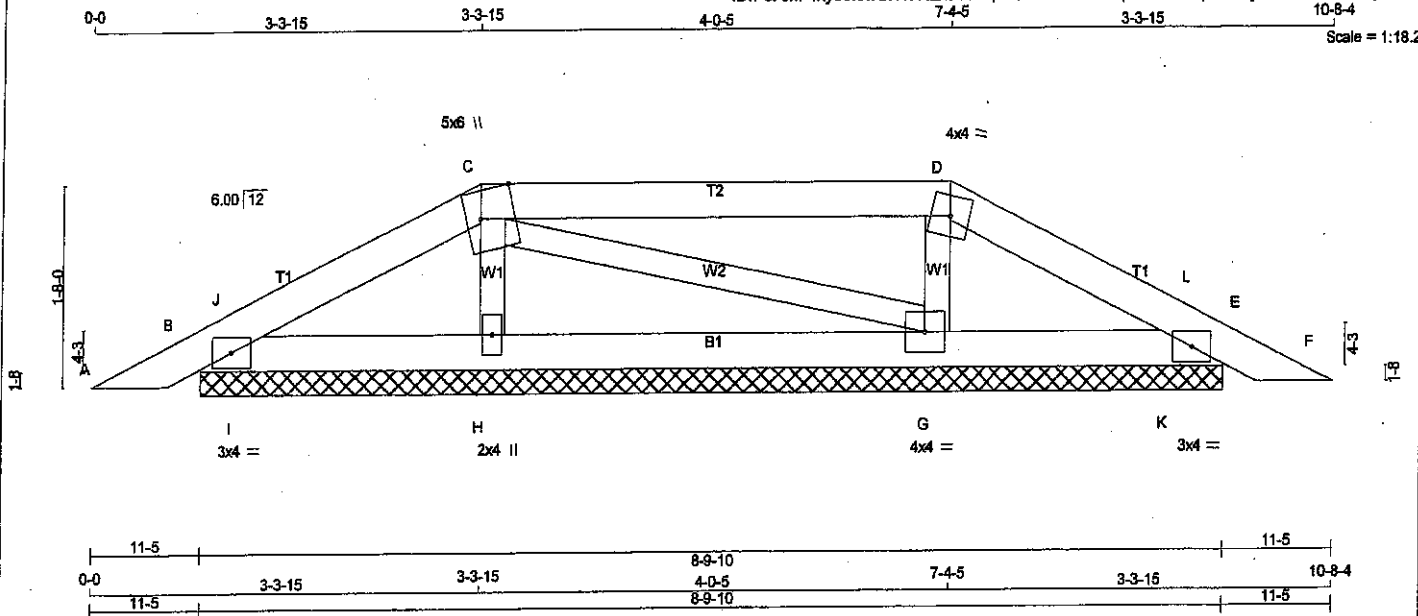


|          |            |          |     |             |          |
|----------|------------|----------|-----|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 297078   | P21        | 2        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MTek Industries, Inc. Mon Aug 20 09:47:08 2018 Page 1

ID: P5XmF1xy53I8wCH47R2x3fzNvqf-IK6PwLwDnVpm8300f02pPo4AyYusVwvF8HdPym7kX



TOTAL WEIGHT = 2 X 28 = 56 lb

|                           |      |        |        |     |
|---------------------------|------|--------|--------|-----|
| <b>LUMBER</b>             |      |        |        |     |
| 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 |
| ALL WEBS 2x3 DRY No.2 SPF |      |        |        |     |
| DRY: SEASONED LUMBER.     |      |        |        |     |

|                                    |         |      |     |               |
|------------------------------------|---------|------|-----|---------------|
| <b>PLATES (table is in inches)</b> |         |      |     |               |
| JT TYPE                            | PLATES  | W    | LEN | Y X           |
| B                                  | TMB1-I  | MT20 | 3.0 | 4.0           |
| C                                  | TTWW+m  | MT20 | 5.0 | 6.0 Edge 3.50 |
| D                                  | TTW-m   | MT20 | 4.0 | 4.0           |
| E                                  | TMB1-I  | MT20 | 3.0 | 4.0           |
| G                                  | BMWW1-t | MT20 | 4.0 | 4.0           |
| H                                  | BMWW1-w | MT20 | 2.0 | 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**

|                 |                |      |                  |      |        |        |        |  |  |
|-----------------|----------------|------|------------------|------|--------|--------|--------|--|--|
| <b>BEARINGS</b> |                |      |                  |      |        |        |        |  |  |
|                 | FACTORED       |      | MAXIMUM FACTORED |      | INPUT  |        | REQD   |  |  |
|                 | GROSS REACTION |      | GROSS REACTION   |      | BRG    |        | BRG    |  |  |
| JT              | VERT           | HORZ | DOWN             | HORZ | UPLIFT | IN-SX  | IN-SX  |  |  |
| B               | 335            | 0    | 335              | 0    | 0      | 8-9-10 | 8-9-10 |  |  |
| E               | 326            | 0    | 326              | 0    | 0      | 8-9-10 | 8-9-10 |  |  |
| H               | 514            | 0    | 514              | 0    | 0      | 8-9-10 | 8-9-10 |  |  |
| G               | 533            | 0    | 533              | 0    | 0      | 8-9-10 | 8-9-10 |  |  |

**UNFACTORED REACTIONS**

|    |           |         |        |            |       |        |       |
|----|-----------|---------|--------|------------|-------|--------|-------|
|    | 1ST LCASE | SNOW    | LIVE   | PERM. LIVE | WIND  | DEAD   | SOIL  |
| JT | COMBINED  |         |        |            |       |        |       |
| B  | 236       | 178 / 0 | 18 / 0 | 0 / 0      | 0 / 0 | 40 / 0 | 0 / 0 |
| E  | 230       | 173 / 0 | 18 / 0 | 0 / 0      | 0 / 0 | 39 / 0 | 0 / 0 |
| H  | 381       | 222 / 0 | 75 / 0 | 0 / 0      | 0 / 0 | 85 / 0 | 0 / 0 |
| G  | 385       | 233 / 0 | 75 / 0 | 0 / 0      | 0 / 0 | 86 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 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)

|               |                           |                           |                        |             |                           |                        |          |
|---------------|---------------------------|---------------------------|------------------------|-------------|---------------------------|------------------------|----------|
| <b>CHORDS</b> |                           |                           |                        | <b>WEBS</b> |                           |                        |          |
| 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                   |                        |             |                           |                        |          |
| A-B           | 0 / 24                    | -129.7 -129.7             | 0.07 (1)               | 10.00       | H-C                       | -348 / 0               | 0.05 (1) |
| B-J           | -82 / 0                   | -129.7 -129.7             | 0.01 (3)               | 6.25        | C-G                       | -18 / 0                | 0.00 (1) |
| J-C           | -81 / 0                   | -129.7 -129.7             | 0.09 (1)               | 6.25        | G-D                       | -362 / 0               | 0.05 (1) |
| C-D           | -26 / 0                   | -129.7 -129.7             | 0.38 (1)               | 6.25        | I-J                       | -153 / 0               | 0.00 (1) |
| D-L           | -63 / 0                   | -129.7 -129.7             | 0.09 (1)               | 6.25        | K-L                       | -154 / 0               | 0.00 (1) |
| L-E           | -63 / 0                   | -129.7 -129.7             | 0.01 (3)               | 6.25        |                           |                        |          |
| E-F           | 0 / 24                    | -129.7 -129.7             | 0.07 (1)               | 10.00       |                           |                        |          |
| B-I           | 0 / 72                    | -38.5 -38.5               | 0.09 (1)               | 10.00       |                           |                        |          |
| I-H           | 0 / 72                    | -38.5 -38.5               | 0.09 (1)               | 10.00       |                           |                        |          |
| H-G           | 0 / 43                    | -38.5 -38.5               | 0.09 (2)               | 10.00       |                           |                        |          |
| G-K           | 0 / 55                    | -38.5 -38.5               | 0.09 (1)               | 10.00       |                           |                        |          |
| K-E           | 0 / 55                    | -38.5 -38.5               | 0.09 (1)               | 10.00       |                           |                        |          |

**DESIGN CRITERIA**

SPECIFIED LOADS:  
TOP CH. LL = 38.2 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2012, NBC 2018  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.36/1.00 (C-D-1), BC=0.09/1.00 (B-I-1), WB=0.05/1.00 (D-G-1), SS=0.20/1.00 (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 = 1.00

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 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.26 (B) (INPUT = 0.60)  
JSI METAL= 0.07 (H) (INPUT = 1.00)

DWG NO. TAM 11605770  
STRUCTURAL  
COMPONENT ONLY



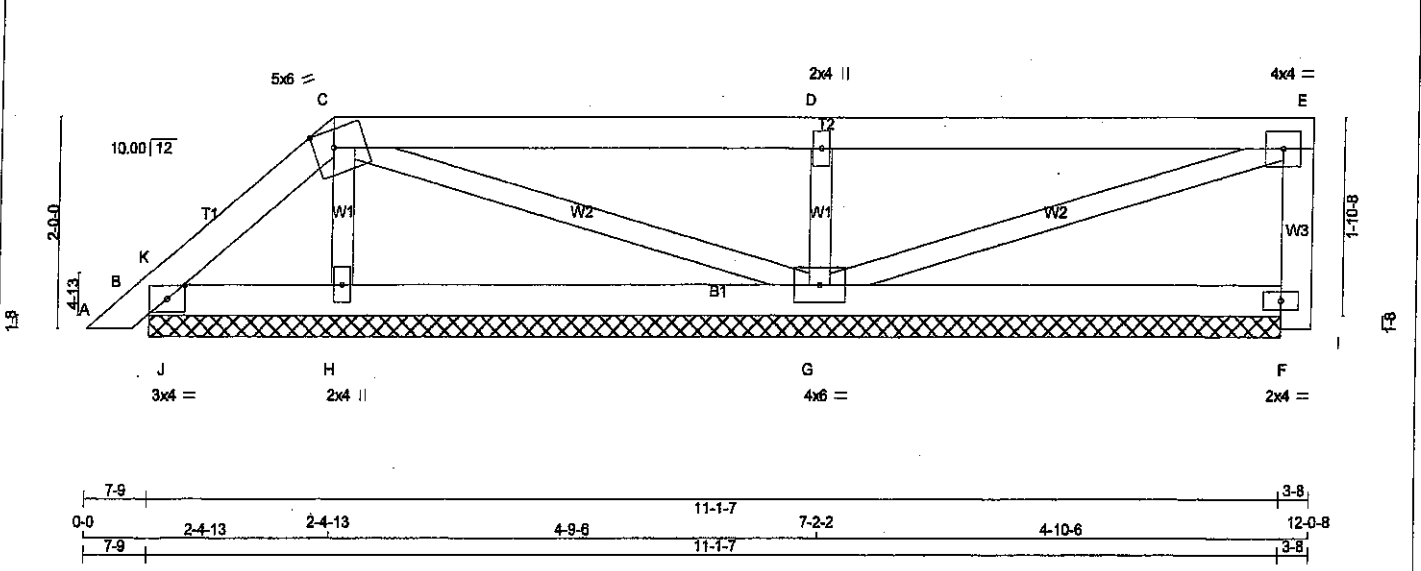
|                           |                           |                      |                 |                          |          |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|
| JOB NAME<br><b>297078</b> | TRUSS NAME<br><b>P200</b> | QUANTITY<br><b>3</b> | PLY<br><b>1</b> | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
|---------------------------|---------------------------|----------------------|-----------------|--------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MiTek Industries, Inc. Mon Aug 20 09:47:19 2018 Page 1

ID: P28MfeCLvUenecsozG30C?zN98l-xRHZD5kpdAuxdSUA9pSb77MTvbmzqGVSSIMWGYm?kM

Scale = 1:20.9



TOTAL WEIGHT = 3 X 39 = 117 lb

| LUMBER               |      |        |        |
|----------------------|------|--------|--------|
| N. L. G. A. RULES    |      |        |        |
| CHORDS               | SIZE | LUMBER | DESCR. |
| A - C                | 2x4  | DRY    | No.2   |
| C - E                | 2x4  | DRY    | No.2   |
| I - E                | 2x4  | DRY    | No.2   |
| B - F                | 2x4  | DRY    | No.2   |
| ALL WEBS             | 2x3  | DRY    | No.2   |
| 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                           | TTWW-m   | MT20   | 5.0 | 6.0 | 2.00 2.25 |
| D                           | TMMV-w   | MT20   | 2.0 | 4.0 |           |
| E                           | TMMV-t   | MT20   | 4.0 | 4.0 |           |
| F                           | BVM1-I   | MT20   | 2.0 | 4.0 |           |
| G                           | BMVWW1-t | MT20   | 4.0 | 6.0 |           |
| H                           | BMVW1-w  | MT20   | 2.0 | 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 |
| B        | 242  | 0              | 242              | 0     | 0      |
| F        | 311  | 0              | 311              | 0     | 0      |
| H        | 428  | 0              | 428              | 0     | 0      |
| G        | 1007 | 0              | 1007             | 0     | 0      |

| UNFACTORED REACTIONS                   |          |       |       |           |      |       |      |
|----------------------------------------|----------|-------|-------|-----------|------|-------|------|
| 1ST LCASE MAX/MIN. COMPONENT REACTIONS |          |       |       |           |      |       |      |
| JT                                     | COMBINED | SNOW  | LIVE  | PERM.LIVE | WIND | DEAD  | SOIL |
| B                                      | 168      | 136/0 | 6/0   | 0/0       | 0/0  | 25/0  | 0/0  |
| F                                      | 229      | 140/0 | 40/0  | 0/0       | 0/0  | 49/0  | 0/0  |
| H                                      | 324      | 170/0 | 78/0  | 0/0       | 0/0  | 78/0  | 0/0  |
| G                                      | 735      | 467/0 | 117/0 | 0/0       | 0/0  | 151/0 | 0/0  |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, F, H, 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. LC1 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. LC1 (LC) |  |
| FR-TO  |                           | FROM TO                   |               | FR-TO |                           |               |  |
| A-B    | 0/20                      | -129.7 -129.7             | 0.03 (1)      | H-C   | -264/0                    | 0.04 (1)      |  |
| B-K    | -40/7                     | -129.7 -129.7             | 0.02 (1)      | C-G   | -39/0                     | 0.02 (1)      |  |
| K-C    | -77/0                     | -129.7 -129.7             | 0.04 (1)      | G-D   | -781/0                    | 0.11 (1)      |  |
| C-D    | 0/0                       | -129.7 -129.7             | 0.51 (1)      | G-E   | 0/0                       | 0.00 (1)      |  |
| D-E    | 0/0                       | -129.7 -129.7             | 0.51 (1)      | J-K   | -165/0                    | 0.00 (1)      |  |
| E-F    | 0/0                       | 0.0 0.0                   | 0.00 (1)      |       |                           |               |  |
| F-E    | -238/0                    | 0.0 0.0                   | 0.03 (1)      |       |                           |               |  |
| B-J    | 0/54                      | -38.5 -38.5               | 0.08 (1)      |       |                           |               |  |
| J-H    | 0/54                      | -38.5 -38.5               | 0.09 (2)      |       |                           |               |  |
| H-G    | 0/37                      | -38.5 -38.5               | 0.18 (3)      |       |                           |               |  |
| G-F    | 0/0                       | -38.5 -38.5               | 0.18 (3)      |       |                           |               |  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 38.2 PSF  
DL = 6.0 PSF  
BOT. CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 51.7 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, NBC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, OBC 2018  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

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

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.51/1.00 (C-D:1), BC=0.18/1.00 (G-H:3), WB=0.11/1.00 (D-G:1), SSI=0.31/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

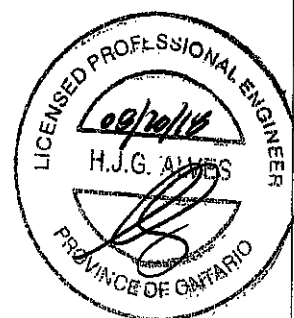
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

| NAIL VALUES |                 |             |               |
|-------------|-----------------|-------------|---------------|
| PLATE       | GRIP(DRY) (PSI) | SHEAR (PLI) | SECTION (PLI) |
|             | MAX MIN         | MAX MIN     | MAX MIN       |
| MT20        | 818 354         | 1687 788    | 1987 1656     |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.41 (D) (INPUT = 0.90)  
JSI METAL= 0.21 (F) (INPUT = 1.00)



DWG NO. TAM 11805713  
STRUCTURAL  
COMPONENT ONLY

# LUL/LUS/LJS/HUS/HHUS/HGUS

**SIMPSON**  
Strong-Tie

## HHUS/HGUS

See Hanger Options Information on pp. 125-127.

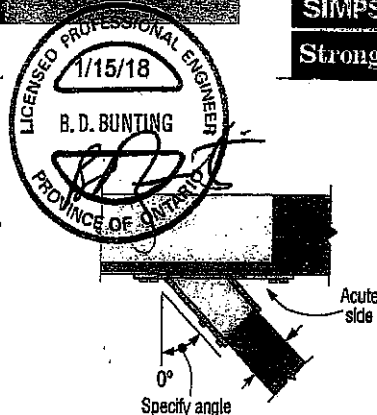
### HHUS — Sloped and/or Skewed Seat

- HHUS hangers can be skewed to a maximum of 45° and/or sloped to a maximum of 45°
- For skew only, maximum factored down resistance is 0.85 of the table value
- For sloped only or sloped and skewed hangers, the maximum factored down resistance is 0.72 of the table value
- Uplift resistances for sloped/skewed conditions are 0.62 of the table value
- The joist must be bevel-cut to allow for double-shear nailing

### HGUS — Skewed Seat

- HGUS hangers can be skewed only to a maximum of 45°. Factored resistances are:

| HGUS Seat Width | Joist               | Down Resistance     | Uplift              |
|-----------------|---------------------|---------------------|---------------------|
| W < 2"          | Bevel or square cut | 0.62 of table value | 0.46 of table value |
| 2" < W < 6"     | Bevel cut           | 0.67 of table value | 0.41 of table value |
| 2" < W < 6"     | Square cut          | 0.46 of table value | 0.41 of table value |
| W > 6"          | Bevel cut           | 0.75 of table value | 0.41 of table value |



**Top View HHUS Hanger  
Skewed Right**  
(joist must be bevel cut)  
All joist nails installed on the  
outside angle (non-acute side).

## Standard and Double-Shear Joist Hangers (cont.)

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

| Model No.       | Ga. | Dimensions (in.) |       |       |                | Fasteners |                  | Factored Resistance |      |        |      |      |      |
|-----------------|-----|------------------|-------|-------|----------------|-----------|------------------|---------------------|------|--------|------|------|------|
|                 |     | W                | H     | B     | d <sub>g</sub> | Header    | Joist            | Down                |      | Uplift |      |      |      |
|                 |     |                  |       |       |                |           |                  | lb.                 | lb.  | lb.    | lb.  |      |      |
|                 |     |                  |       |       |                |           |                  | lb.                 | lb.  | lb.    | lb.  |      |      |
| Single 2x Sizes |     |                  |       |       |                |           |                  |                     |      | 710    | 1625 | 645  | 1155 |
| LUS24           | 18  | 1 1/8            | 3 1/2 | 1 3/4 | 2 1/4          | (4) 10d   | (2) 10d          |                     |      |        | 2.67 | 5.14 |      |
| LU24L           | 22  | 1 1/8            | 3     | 1 1/4 | 2 1/8          | (4) 10d   | (2) 10d x 1 1/2" |                     | 360  | 1020   | 320  | 725  |      |
| LU28L           | 22  | 1 1/8            | 5     | 1 1/4 | 4 1/4          | (6) 10d   | (4) 10d x 1 1/2" |                     | 720  | 1605   | 645  | 1140 |      |
| LUS26           | 18  | 1 1/8            | 4 1/4 | 1 3/4 | 3 3/4          | (4) 10d   | (4) 16d          |                     | 1420 | 2170   | 1290 | 1630 |      |
| HUS26           | 16  | 1 1/8            | 5 1/4 | 3     | 3 1/8          | (14) 16d  | (6) 16d          |                     | 2705 | 4940   | 2065 | 3875 |      |
| LJS26DS         | 18  | 1 1/8            | 5     | 3 1/2 | 4 1/4          | (18) 16d  | (6) 16d          |                     | 2055 | 4265   | 1480 | 4115 |      |
| HGUS26          | 12  | 1 1/8            | 5 1/4 | 5     | 4 1/4          | (20) 16d  | (8) 16d          |                     | 2685 | 6625   | 2685 | 5700 |      |
| LU28L           | 20  | 1 1/8            | 6 1/4 | 1 1/4 | 5 1/4          | (8) 10d   | (6) 10d x 1 1/2" |                     | 1140 | 2185   | 1020 | 1550 |      |
| LUS28           | 18  | 1 1/8            | 6 1/4 | 1 1/4 | 3 3/4          | (6) 10d   | (4) 10d          |                     | 1420 | 2520   | 1290 | 1790 |      |
| HUS28           | 16  | 1 1/8            | 7 1/4 | 3     | 6 1/8          | (22) 16d  | (8) 16d          |                     | 3605 | 5365   | 2675 | 4345 |      |
| HGUS28          | 12  | 1 1/8            | 7 1/4 | 5     | 6 1/4          | (36) 16d  | (12) 16d         |                     | 3310 | 7675   | 3310 | 6900 |      |
| LU210L          | 20  | 1 1/8            | 8     | 1 1/4 | 7 1/4          | (10) 10d  | (6) 10d x 1 1/2" |                     | 1140 | 2495   | 1020 | 1770 |      |
| LUS210          | 18  | 1 1/8            | 7 1/4 | 1 1/4 | 3 3/4          | (8) 10d   | (4) 10d          |                     | 1420 | 2785   | 1290 | 2210 |      |

1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.
2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.
3. d<sub>g</sub> is the distance from the bearing seat to the top joist nail.
4. Resistances shown require a minimum 2-ply girder truss. For fastening to single-ply truss request technical bulletin T-C-N10TRSSCN and/or see installation notes.
5. Nails: 16d = 0.162" dia. x 3 1/2" long. See pp. 27-28 for other nail sizes and information.



Simpson Strong-Tie Wood Construction Connectors - Canadian Limit States Design

## Face-Mount Hangers

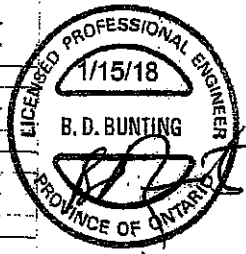
**SIMPSON**  
**Strong-Tie**

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

| Model No.          | Ga. | Dimensions (in.) |        |   |                | Fasteners |          | Factored Resistance |       |                                          |                                          |    |    |
|--------------------|-----|------------------|--------|---|----------------|-----------|----------|---------------------|-------|------------------------------------------|------------------------------------------|----|----|
|                    |     | W                | H      | B | d <sub>p</sub> | Header    | Joist    | Tension             |       | S-P-F                                    |                                          |    |    |
|                    |     |                  |        |   |                |           |          | lb.                 | lb.   | Uplift<br>(K <sub>g</sub> = 1.15)<br>lb. | Normal<br>(K <sub>g</sub> = 1.00)<br>lb. |    |    |
|                    |     |                  |        |   |                |           |          |                     |       |                                          |                                          | kN | kN |
| Double 2x Sizes    |     |                  |        |   |                |           |          |                     |       |                                          |                                          |    |    |
| LUS24-2            | 18  | 3 1/8            | 3 1/8  | 2 | 1 1/2          | (4) 16d   | (2) 16d  | 835                 | 2020  | 590                                      | 1435                                     |    |    |
| LUS26-2            | 18  | 3 1/8            | 4 1/8  | 2 | 4              | (4) 16d   | (4) 16d  | 1720                | 2595  | 1545                                     | 1920                                     |    |    |
| HHUS26-2           | 14  | 3 1/8            | 5 1/8  | 3 | 3 1/8          | (14) 16d  | (6) 16d  | 2850                | 7335  | 2065                                     | 5205                                     |    |    |
| HGUS26-2           | 12  | 3 1/8            | 5 1/8  | 4 | 4 1/8          | (20) 16d  | (8) 16d  | 4385                | 8950  | 3110                                     | 6355                                     |    |    |
| LUS28-2            | 18  | 3 1/8            | 7      | 2 | 4              | (6) 16d   | (4) 16d  | 1720                | 3325  | 1545                                     | 2575                                     |    |    |
| HHUS28-2           | 14  | 3 1/8            | 7 1/8  | 3 | 6 1/8          | (22) 16d  | (8) 16d  | 3765                | 8940  | 2675                                     | 6345                                     |    |    |
| HGUS28-2           | 12  | 3 1/8            | 7 1/8  | 4 | 6 1/8          | (30) 16d  | (12) 16d | 6070                | 12980 | 4310                                     | 9215                                     |    |    |
| LUS210-2           | 18  | 3 1/8            | 9      | 2 | 6              | (8) 16d   | (6) 16d  | 2590                | 4500  | 2320                                     | 3195                                     |    |    |
| HHUS210-2          | 14  | 3 1/8            | 9 1/8  | 3 | 8              | (30) 16d  | (10) 16d | 4670                | 9660  | 4235                                     | 7000                                     |    |    |
| HGUS210-2          | 12  | 3 1/8            | 9 1/8  | 4 | 8 1/8          | (46) 16d  | (16) 16d | 6840                | 14015 | 4855                                     | 10270                                    |    |    |
| Triple 2x Sizes    |     |                  |        |   |                |           |          |                     |       |                                          |                                          |    |    |
| HGUS26-3           | 12  | 4 1/8            | 5 1/2  | 4 | 4 1/8          | (20) 16d  | (8) 16d  | 4385                | 8950  | 3110                                     | 6355                                     |    |    |
| HGUS28-3           | 12  | 4 1/8            | 7 1/4  | 4 | 6 1/8          | (36) 16d  | (12) 16d | 6070                | 12980 | 4310                                     | 9215                                     |    |    |
| HHUS210-3          | 14  | 4 1/8            | 9      | 3 | 7 1/8          | (30) 16d  | (10) 16d | 4670                | 9870  | 4235                                     | 6865                                     |    |    |
| HGUS210-3          | 12  | 4 1/8            | 9 1/4  | 4 | 8 1/8          | (46) 16d  | (16) 16d | 6840                | 14645 | 4855                                     | 10400                                    |    |    |
| Quadruple 2x Sizes |     |                  |        |   |                |           |          |                     |       |                                          |                                          |    |    |
| HGUS26-4           | 12  | 6 1/8            | 5 1/8  | 4 | 4 1/8          | (20) 16d  | (8) 16d  | 4385                | 8950  | 3110                                     | 6355                                     |    |    |
| HGUS28-4           | 12  | 6 1/8            | 7 1/8  | 4 | 6 1/8          | (36) 16d  | (12) 16d | 6070                | 12980 | 4310                                     | 9215                                     |    |    |
| HHUS210-4          | 14  | 6 1/8            | 8 1/8  | 3 | 7 1/8          | (30) 16d  | (10) 16d | 4670                | 10155 | 4235                                     | 7210                                     |    |    |
| HGUS210-4          | 12  | 6 1/8            | 9 1/8  | 4 | 8 1/8          | (46) 16d  | (16) 16d | 6840                | 14645 | 4855                                     | 10400                                    |    |    |
| HGUS212-4          | 12  | 6 1/8            | 10 1/8 | 4 | 10 1/8         | (56) 16d  | (20) 16d | 7640                | 14995 | 5425                                     | 10645                                    |    |    |
| HGUS214-4          | 12  | 6 1/8            | 12 1/8 | 4 | 11 1/8         | (66) 16d  | (22) 16d | 10130               | 16400 | 7195                                     | 11845                                    |    |    |
| 4x Sizes           |     |                  |        |   |                |           |          |                     |       |                                          |                                          |    |    |
| LUS46              | 18  | 3 1/8            | 4 1/8  | 2 | 3 1/8          | (4) 16d   | (4) 16d  | 1720                | 2595  | 1545                                     | 1920                                     |    |    |
| HHUS46             | 14  | 3 1/8            | 5 1/8  | 3 | 3 1/8          | (14) 16d  | (6) 16d  | 2540                | 7335  | 2065                                     | 5205                                     |    |    |
| HGUS46             | 12  | 3 1/8            | 5 1/8  | 4 | 4 1/8          | (20) 16d  | (8) 16d  | 4385                | 8950  | 3110                                     | 6355                                     |    |    |
| LUS48              | 18  | 3 1/8            | 6 1/8  | 2 | 3 1/8          | (6) 16d   | (4) 16d  | 1720                | 3325  | 1545                                     | 2575                                     |    |    |
| HHUS48             | 14  | 3 1/8            | 7 1/8  | 3 | 6 1/8          | (22) 16d  | (8) 16d  | 3765                | 8940  | 2675                                     | 6345                                     |    |    |
| HGUS48             | 12  | 3 1/8            | 7 1/8  | 4 | 6 1/8          | (36) 16d  | (12) 16d | 6070                | 12980 | 4310                                     | 9215                                     |    |    |
| LUS410             | 18  | 3 1/8            | 8 1/8  | 2 | 5 1/8          | (8) 16d   | (6) 16d  | 2580                | 4500  | 2320                                     | 3195                                     |    |    |
| HGUS410            | 12  | 3 1/8            | 9      | 4 | 8 1/8          | (46) 16d  | (16) 16d | 6840                | 14015 | 4855                                     | 10270                                    |    |    |
| HGUS412            | 12  | 3 1/8            | 10 1/8 | 4 | 10 1/8         | (56) 16d  | (20) 16d | 7640                | 14995 | 5425                                     | 10645                                    |    |    |
| HGUS414            | 12  | 3 1/8            | 12 1/8 | 4 | 11 1/8         | (66) 16d  | (22) 16d | 10130               | 16400 | 7195                                     | 11845                                    |    |    |

See footnotes on p. 258.



Plated Truss Connectors

TECHNICAL BULLETIN

# TBE – Truss Bearing Enhancers

SIMPSON

Strong-Tie

One size works with any number of girder plys. The TBE transfers load from the truss or girder to plates for bearing-limited conditions, and provides exceptional uplift capacity. Replaces nail-on scabs that provide lower load transfer, or in some cases, an additional ply when needed for bearing. The table lists factored resistances for TBE4 used on 2x4 and TBE6 used on 2x6 top plates. The tables give the different resistances calculated for TBE with and without wood bearing.

**Material:** 18 gauge

**Finish:** G90 galvanized

## Design:

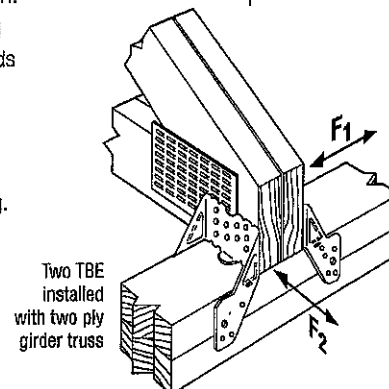
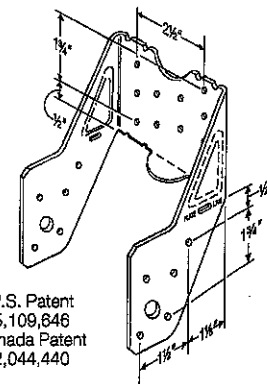
- Factored resistances are in accordance with CSA 086-14.
- Factored uplift resistances have been increased 15% for short term load duration with no further increase allowed; reduce resistances by 15% for standard term load duration.
- Factored resistances are determined by nail shear calculations or tests of the metal connectors. The attached wood members must be designed to withstand the loads imposed by the nails.

## Installation:

- Use all specified fasteners.
- Nails: 10d = 0.148" dia x 3" long common wire, 10d x 1½" = 0.148" dia x 1½" long.
- TBE must be installed in pairs.
- Top plate size is 2x4 for TBE4, 2x6 for TBE6. Use alternate installation for TBE4 and TBE6 on larger plates or pre-sheathed walls.
- Do not use TBES in end-grain-bearing applications.
- See current catalogue for alternate installations.

TBE4  
(TBE6 similar)

U.S. Patent  
5,109,646  
Canada Patent  
2,044,440



| Model No. | No. of Plys | Fasteners      |                | TBE Only Factored Resistance      |                                   |                                 |                | Combined TBE and Wood Bearing Factored Resistance |                  |
|-----------|-------------|----------------|----------------|-----------------------------------|-----------------------------------|---------------------------------|----------------|---------------------------------------------------|------------------|
|           |             | Truss          | Plate          | Uplift<br>(K <sub>0</sub> = 1.15) | Normal<br>(K <sub>0</sub> = 1.00) | Lateral (K <sub>0</sub> = 1.15) |                | Normal <sup>2</sup><br>(K <sub>0</sub> = 1.00)    | TBL <sup>4</sup> |
|           |             |                |                |                                   |                                   | F <sub>1</sub>                  | F <sub>2</sub> |                                                   |                  |
|           |             |                |                | lb.                               | lb.                               | lb.                             | lb.            | lb.                                               | in.              |
| D.Fir-L   |             |                |                |                                   |                                   |                                 |                |                                                   |                  |
| TBE4      | 1           | (20) 10d x 1½" | (20) 10d x 1½" | 1605                              | 3540                              | 655                             | 1415           | 7820                                              | 6.44             |
|           | 2           | (20) 10d       | (20) 10d       | 1605                              | 3660                              | 655                             | 1415           | 12180                                             | 5.00             |
|           | 3           | (20) 10d       | (20) 10d       | 1605                              | 3660                              | 655                             | 1415           | 16445                                             | 4.50             |
|           | 4           | (20) 10d       | (20) 10d       | 1605                              | 3660                              | 655                             | 1415           | 20705                                             | 4.25             |
| TBE6      | 1           | (20) 10d x 1½" | (20) 10d x 1½" | 1760                              | 3540                              | 490                             | 1745           | 10235                                             | 8.41             |
|           | 2           | (20) 10d       | (20) 10d       | 1760                              | 3860                              | 490                             | 1745           | 17250                                             | 7.09             |
|           | 3           | (20) 10d       | (20) 10d       | 1760                              | 3860                              | 490                             | 1745           | 23945                                             | 6.56             |
|           | 4           | (20) 10d       | (20) 10d       | 1760                              | 3860                              | 490                             | 1745           | 30640                                             | 6.29             |
| S-P-F     |             |                |                |                                   |                                   |                                 |                |                                                   |                  |
| TBE4      | 1           | (20) 10d x 1½" | (20) 10d x 1½" | 1605                              | 3220                              | 615                             | 1415           | 6445                                              | 6.99             |
|           | 2           | (20) 10d       | (20) 10d       | 1605                              | 3440                              | 615                             | 1415           | 9890                                              | 5.37             |
|           | 3           | (20) 10d       | (20) 10d       | 1605                              | 3440                              | 615                             | 1415           | 13120                                             | 4.74             |
|           | 4           | (20) 10d       | (20) 10d       | 1605                              | 3440                              | 615                             | 1415           | 16345                                             | 4.43             |
| TBE6      | 1           | (20) 10d x 1½" | (20) 10d x 1½" | 1760                              | 3220                              | 490                             | 1585           | 8290                                              | 8.99             |
|           | 2           | (20) 10d       | (20) 10d       | 1760                              | 3440                              | 490                             | 1585           | 13680                                             | 7.42             |
|           | 3           | (20) 10d       | (20) 10d       | 1760                              | 3440                              | 490                             | 1585           | 18750                                             | 6.78             |
|           | 4           | (20) 10d       | (20) 10d       | 1760                              | 3440                              | 490                             | 1585           | 23820                                             | 6.46             |

1. Factored resistances are for two TBES only. Wood factored bearing resistance may be added as shown in the table.
2. Factored bearing resistances shown assume Q<sub>v</sub>/A<sub>v</sub> and Q<sub>t</sub>/A<sub>t</sub> = 812 psi (5.60 MPa) for D.Fir-L and 614 psi (4.24 MPa) for S-P-F. See clauses 6.5.4 and 7.5.9 TPIC 2014 for required bearing reinforcement when compression loads are applied to both sides of truss member.
3. Use lower of top plate or wood truss species.
4. Total bearing length, TBL, equals the plate width plus simulated bearing length provided by the TBE. TBE4 = 3½" plate width; TBE6 = 5½" plate width.



LIMIT  
STATES  
DESIGN

This technical Bulletin is effective until June 30, 2019, and contains information available as of March 1, 2017. This information is updated periodically and should not be relied upon after June 30, 2019. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

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T-SPEC-TBE17 3/17 exp. 6/19

(800) 999-5099  
strongtie.com

## TS/LTS/MTS/HTS

**SIMPSON**  
**Strong-Tie**

### Twist Straps

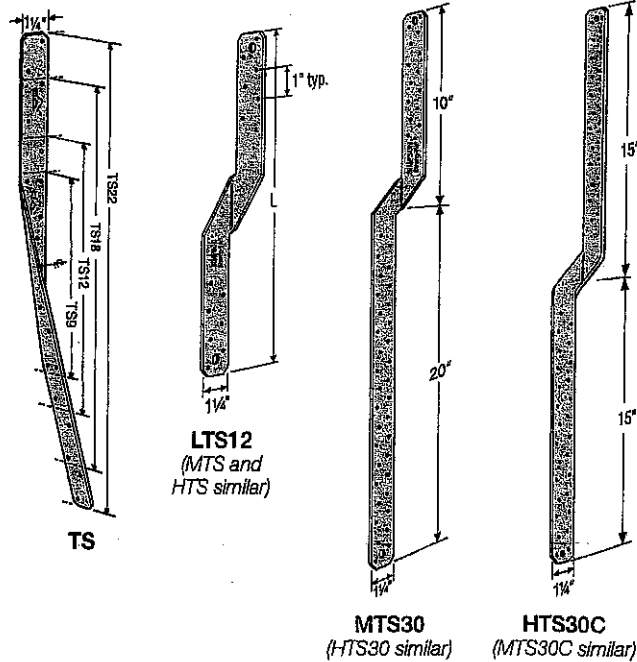
Twist straps provide a tension connection between two wood members. They resist uplift at the heel of a truss economically. The 3"-bend section eliminates interference at the transition points between wood members. TS twist straps come with an equal number of left and right hand units in each carton.

**Material:** LTS — 18 gauge; MTS/TS — 16 gauge; HTS — 14 gauge

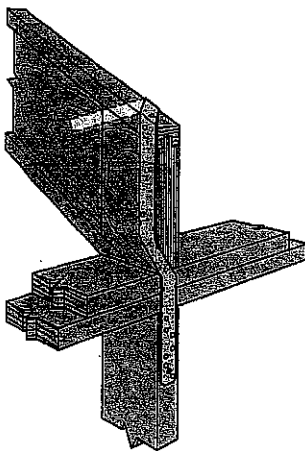
**Finish:** Galvanized. Some products available in stainless steel and ZMAX® coating; see Corrosion Information, pp.20–24.

#### Installation:

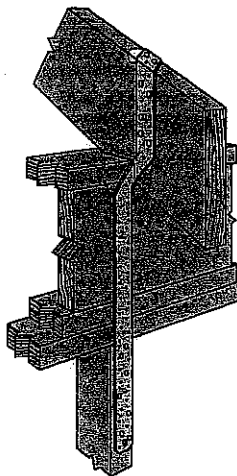
- Use all specified fasteners; see General Notes
- TS should be installed in pairs to reduce eccentricity
- When LTS/MTS is installed as truss-to-top plate tie, install (3) 10d x 1½" nails to the underside of the plate and (3) 10d x 1½" nails into the edge of the double top plate
- LTS, MTS and HTS are available with the bend reversed. Specify "-REV" after model number, such as MTS16-REV



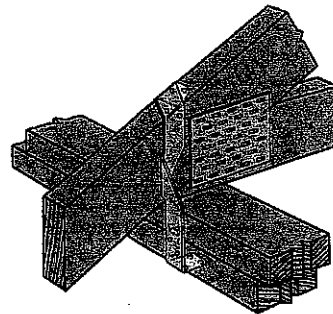
### Straps and Ties



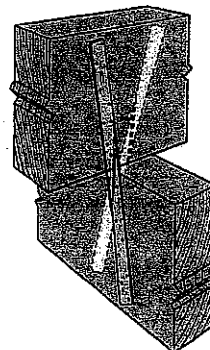
MTS30 Installation  
with I-Joist Rafter



Typical MTS30  
Installation



MTS Installation as a  
Truss-to-Top Plate Tie



Typical TS  
Installation

## TS/LTS/MTS/HTS

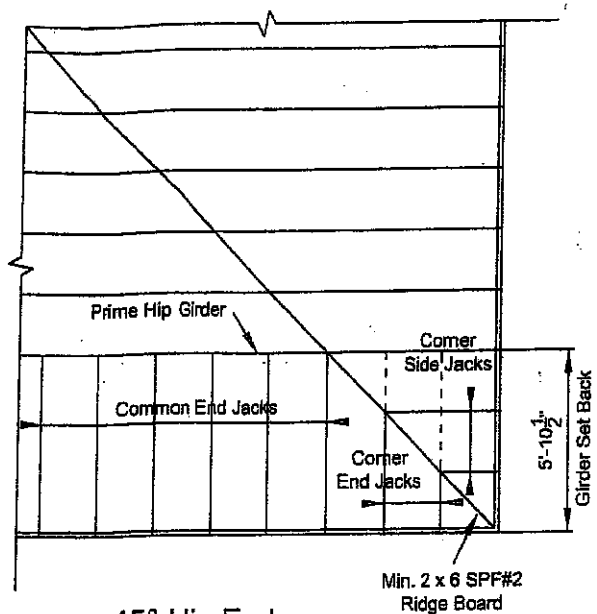
### Twist Straps (cont.)

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32–34 for more information.

| Model No. | L (in.) | Fasteners (Total) | Factored Resistance ( $K_D = 1.15$ ) |       |
|-----------|---------|-------------------|--------------------------------------|-------|
|           |         |                   | D-Fir-L                              | S-P-F |
|           |         |                   | lb.                                  | lb.   |
|           |         |                   | kN                                   | kN    |
| TS9       | 9       | (8) 16d           | 1125                                 | 1040  |
|           |         |                   | 5.00                                 | 4.63  |
| TS12      | 11½     | (10) 16d          | 1410                                 | 1300  |
|           |         |                   | 6.27                                 | 5.78  |
| TS18      | 17¾     | (14) 16d          | 1970                                 | 1820  |
|           |         |                   | 8.76                                 | 8.10  |
| TS22      | 21½     | (18) 16d          | 2125                                 | 2125  |
|           |         |                   | 9.45                                 | 9.45  |
| SS LTS12  | 12      | (12) 10d x 1½"    | 1015                                 | 720   |
|           |         |                   | 4.52                                 | 3.20  |
| LTS16     | 16      | (12) 10d x 1½"    | 1015                                 | 720   |
|           |         |                   | 4.52                                 | 3.20  |
| SS LTS18  | 18      | (12) 10d x 1½"    | 1015                                 | 720   |
|           |         |                   | 4.52                                 | 3.20  |
| LTS20     | 20      | (12) 10d x 1½"    | 1015                                 | 720   |
|           |         |                   | 4.52                                 | 3.20  |
| MTS12     | 12      | (14) 10d x 1½"    | 1570                                 | 1180  |
|           |         |                   | 6.98                                 | 5.25  |
| MTS16     | 16      | (14) 10d x 1½"    | 1570                                 | 1180  |
|           |         |                   | 6.98                                 | 5.25  |
| MTS18     | 18      | (14) 10d x 1½"    | 1570                                 | 1180  |
|           |         |                   | 6.98                                 | 5.25  |
| SS MTS20  | 20      | (14) 10d x 1½"    | 1570                                 | 1180  |
|           |         |                   | 6.98                                 | 5.25  |
| MTS30     | 30      | (14) 10d x 1½"    | 1570                                 | 1180  |
|           |         |                   | 6.98                                 | 5.25  |
| MTS24C    | 24      | (14) 10d x 1½"    | 1570                                 | 1180  |
|           |         |                   | 6.98                                 | 5.25  |
| MTS30C    | 30      | (14) 10d x 1½"    | 1570                                 | 1180  |
|           |         |                   | 6.98                                 | 5.25  |
| HTS16     | 16      | (16) 10d x 1½"    | 2050                                 | 1455  |
|           |         |                   | 9.12                                 | 6.47  |
| HTS20     | 20      | (24) 10d x 1½"    | 2050                                 | 1455  |
|           |         |                   | 9.12                                 | 6.47  |
| HTS24     | 24      | (24) 10d x 1½"    | 2050                                 | 1455  |
|           |         |                   | 9.12                                 | 6.47  |
| HTS28     | 28      | (24) 10d x 1½"    | 2050                                 | 1455  |
|           |         |                   | 9.12                                 | 6.47  |
| HTS30     | 30      | (24) 10d x 1½"    | 2050                                 | 1455  |
|           |         |                   | 9.12                                 | 6.47  |
| HTS30C    | 30      | (24) 10d x 1½"    | 2050                                 | 1455  |
|           |         |                   | 9.12                                 | 6.47  |

1. LTS12 through LTS20, MTS16 through MTS30, HTS24 through HTS30C (except HTS30) have additional nail holes.
2. Install half of the fasteners on each end of strap to achieve maximum factored resistance.
3. Factored resistances have been increased 15% for earthquake or wind loading. No further increase allowed; reduce where other loads govern.
4. All straps except the MTS30 and HTS30 have the twist in the centre of the strap.
5. Twist straps do not have to be wrapped over the truss to achieve the load.
6. Optional nail holes are provided on some straps.
7. When used as a truss-to-top plate tie multiply the tabulated values by 0.95 for LTS and 0.74 for MTS. HTS cannot be used in this application.
8. Nails: 10d = 0.148" dia. x 3" long, 10d x 1½" = 0.148" dia. x 1½" long. See pp. 27–28 for other nail sizes and information.



**45° Hip End**

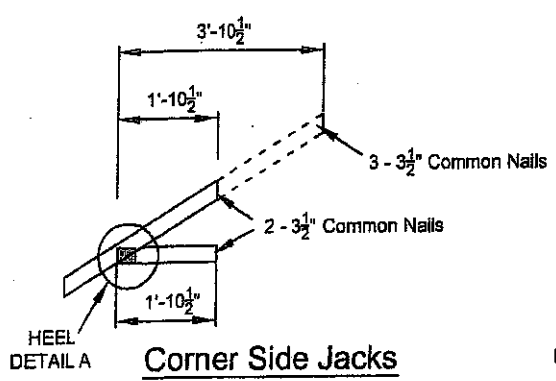
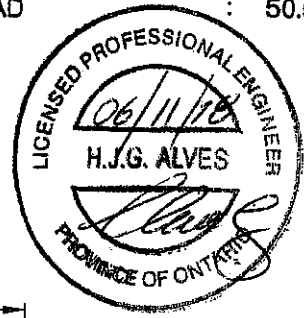
**LUMBER SPECIFICATION**

TOP CHORD : 2 x 4 SPF#2  
 BOTTOM CHORD : 2 x 4 SPF#2  
 WEBS : 2 x 3 SPF#2  
 UNLESS OTHERWISE SHOWN

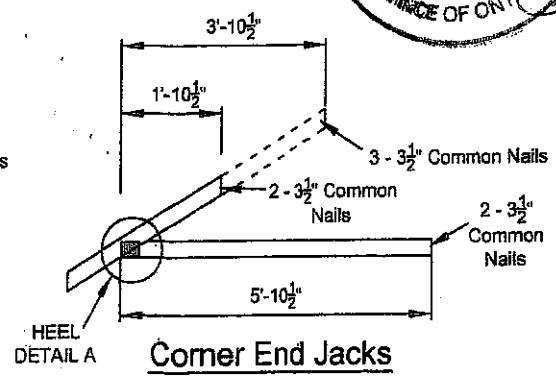
**DESIGN LOAD**

TOP CHORD SNOW LOAD : 40.5 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.

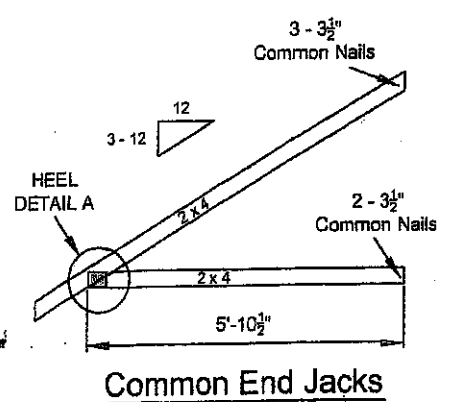
**TOTAL LOAD : 50.5 P.S.F**



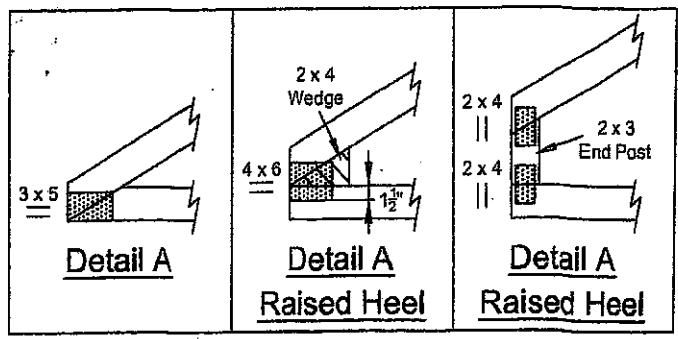
**Corner Side Jacks**



**Corner End Jacks**

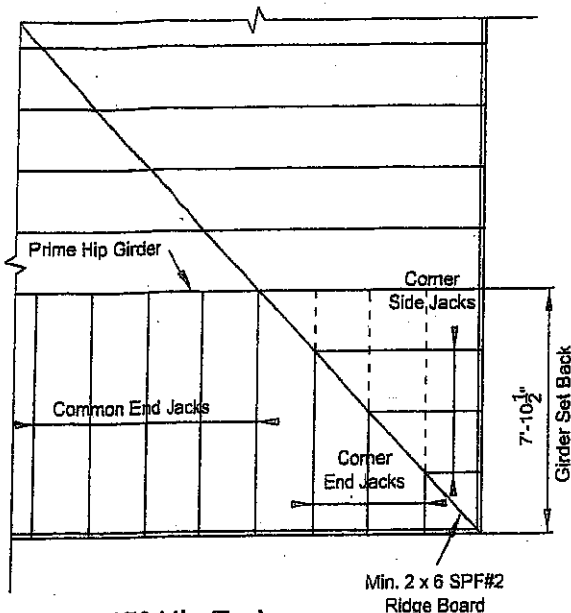


**Common End Jacks**



NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

T-1800216



**45° Hip End**

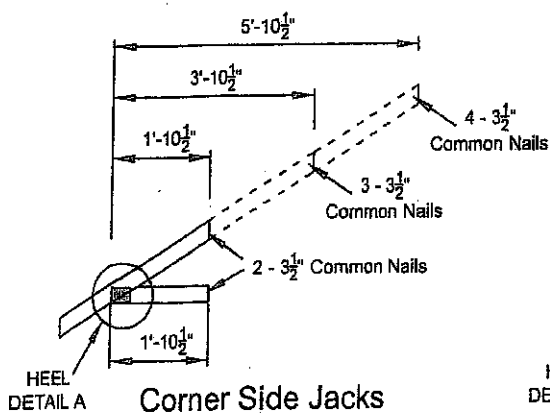
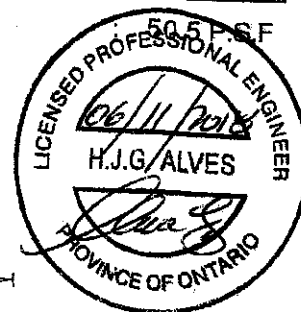
### LUMBER SPECIFICATION

TOP CHORD : 2 x 4 SPF#2  
 BOTTOM CHORD : 2 x 4 SPF#2  
 WEBS : 2 x 3 SPF#2  
 UNLESS OTHERWISE SHOWN

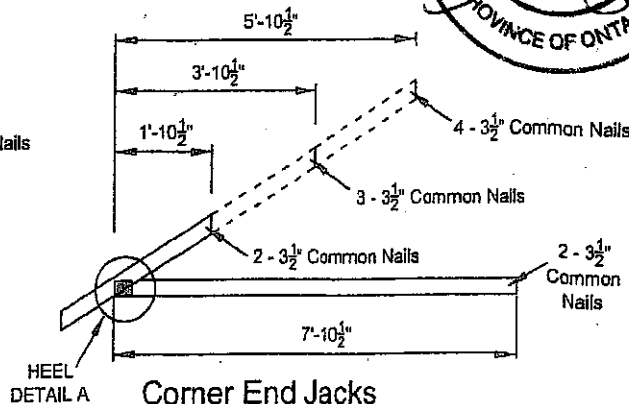
### DESIGN LOAD

TOP CHORD SNOW LOAD : 40.5 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.

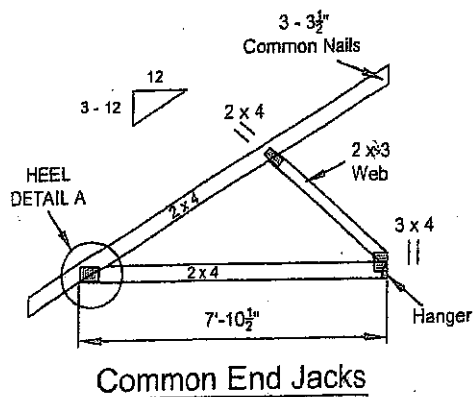
**TOTAL LOAD**



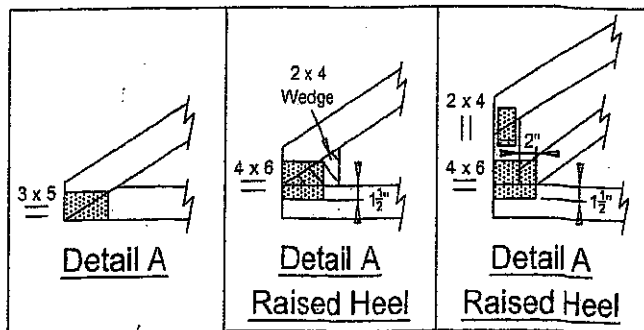
**Corner Side Jacks**



**Corner End Jacks**



**Common End Jacks**



NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

T-1800217

# TECH-NOTES

## TN 15-001

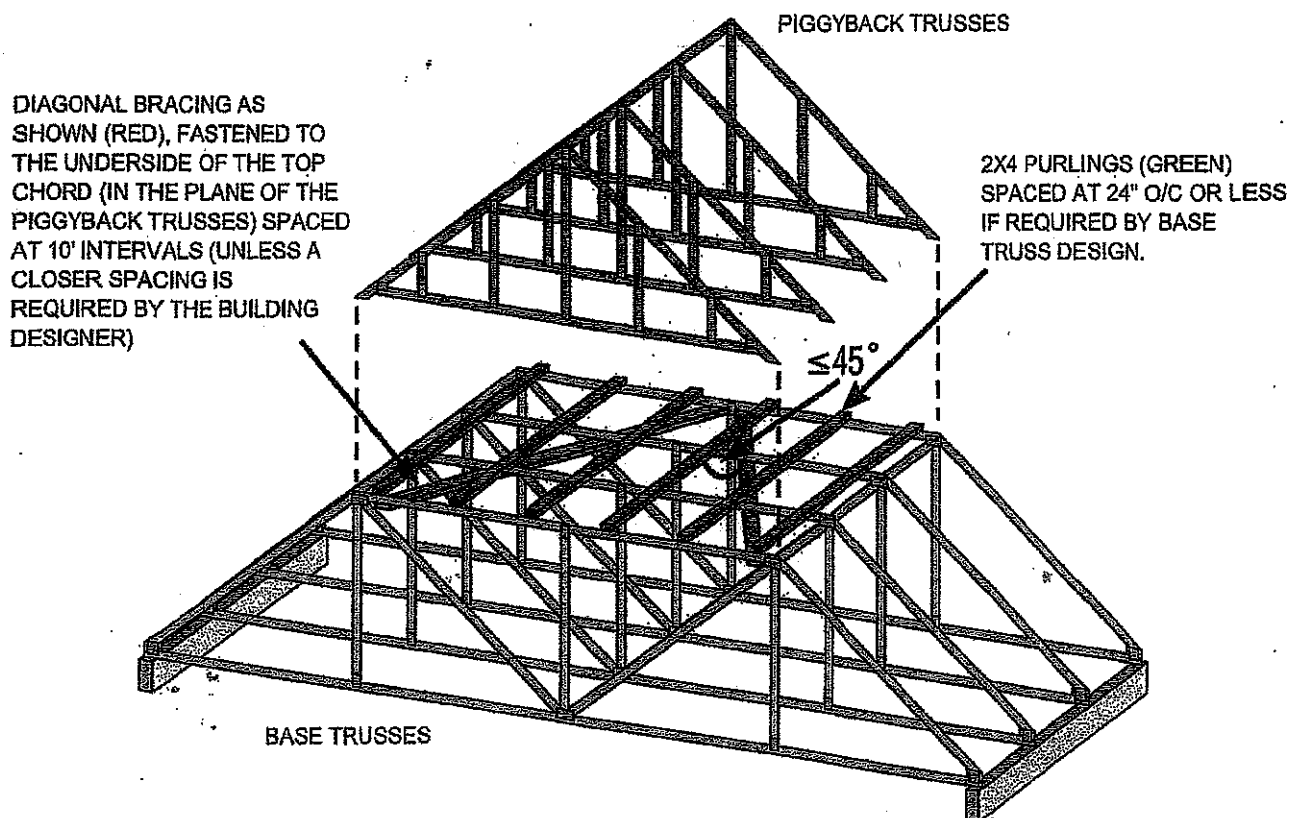
### Piggyback Bracing

#### 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.

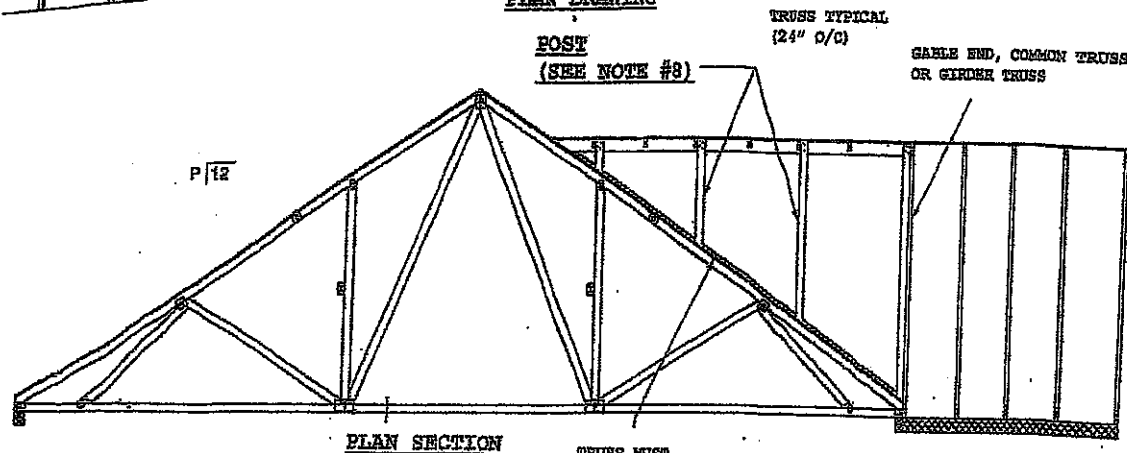
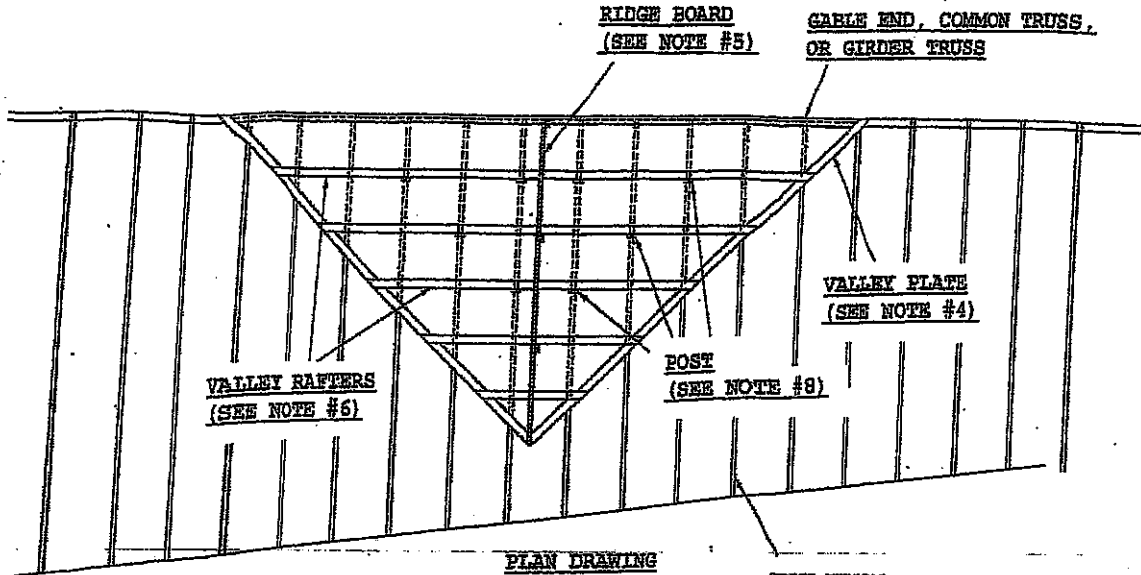


# MICRO CITY ENGINEERING SERVICES INC.

TEL: (519) 287 - 2242

R.R. #1, P.O. BOX 61, GLENCOE, ONTARIO, N0L 1M0

## CONVENTIONAL VALLEY FRAMING DETAIL

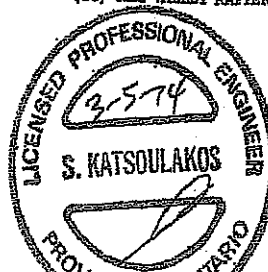


### GENERAL SPECIFICATIONS:

- (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 SFF RIDGE BOARD (MAX. 20'-0" RIDGE). SUPPORT RIDGE BOARD WITH 2 X 4 POSTS SPACED 48" O/C. LEVEL 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 SFF OR BETTER. POSTS EXCEEDING 75" IN HEIGHT SHALL BE INCREASED TO 4 X 4 #2 SFF, OR BETTER, OR BE PRE-ASSEMBLED TWO (2) PLX 2 X 4 #2 SFF 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.

### NOTES:

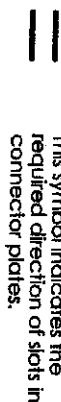
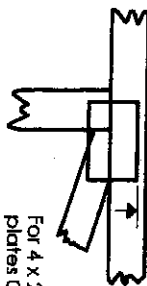
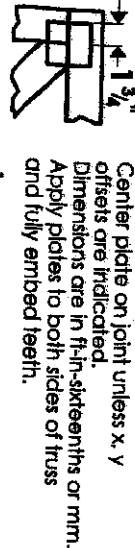
- (10) 48" O/C (MAXIMUM POST SPACING).
- (11) ROOF LIVE LOAD = 34.8 PSF (MAX.)
- (12) ROOF DEAD LOAD = 10.0 PSF (MAX.)
- (13) PART 9 APPLICATION ONLY (ONTARIO BUILDING CODE)
- (14) PART 4 APPLICATION ONLY (ONTARIO BUILDING CODE) WITH APPROVED REVIEW BY LICENSED PROFESSIONAL ENGINEER.
- (15) BASE TRUSS 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

# Symbols

## PLATE LOCATION AND ORIENTATION



\*Plate location details available in Mitek software or upon request.

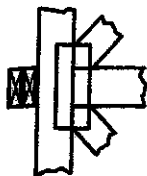
## PLATE SIZE

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



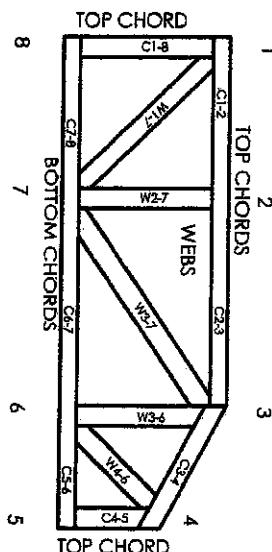
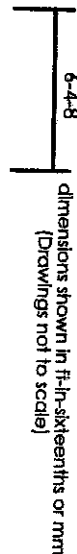
## BEARING



## Industry Standards:

TFC: Truss Design Procedures and Specifications  
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



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 bracing themselves may require bracing, or alternative L, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stock 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 of joint locations are regulated by TFC.
7. Design assumes trusses will be suitably protected from the environment in accord with TFC.
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. Connections not shown are the responsibility of others.
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 TFC Quality Criteria.

**MITEK**  
**POWER TO PERFORM**

Mitek Engineering Reference Sheet: MII-7473C rev. 10-08



## Alves Engineering Services Inc.

5208 Easton road  
Burlington, Ontario L7L 6N6  
(289) 259 5455

### RESPONSABILITIES

- 1-Alves Engineering Services Inc. is responsible for the design of trusses as individual components
- 2-It is the responsibility of others to ascertain that the design loads utilized on this drawing 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 jurisdictions.
- 3- All dimensions are to be verified by owner, contractor, architect or other authority before manufacture.
- 4- Alves Engineering Services Inc. bears no responsibility for the erection of the trusses. Persons erecting trusses are cautioned to seek professional advice regarding temporary and permanent bracing system. Bracing shown on Alves Engineering Services Inc. drawings is specified for the truss as a single component and forms an integral part of the truss design, but is not meant to represent the only required bracing for that truss when trusses are installed in a series of trusses forming a roof truss system.
- 5- It is the manufactures responsibility to ensure that the trusses are manufactured in conformance with Alves Engineering Services Inc. specifications outlined below.

### SPECIFICATIONS

- 1-Truss components sealed by Alves Engineering Services Inc. conform to the relevant sections of the current Building Code of Ontario and Canada (part 4 or part 9) or the current Canadian code for Farm Buildings 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 lumber and nailing stresses to conform to the current CSA wood design standard identified on the current Building Code and TPIC.
- 2- Lumber is to be the sizes and grade specified on the truss drawing.
- 3- Moist content of lumber is not to exceed 19% in service unless otherwise specified.
- 4- Plates shall be applied to both faces of the each truss joint and shall be positioned as shown on the truss drawings
- 5- Lumber used on manufacture of trusses is not to be treated with chemicals unless otherwise specified on the truss drawings.
- 6- The top chord is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals specified on the truss drawing but not exceeding 24" c/c for (part 9) and not exceeding 48" for (part 4 or farm design)
- 7- When rigid ceiling is not attached directly to the bottom chord, lateral bracing is required and it should not exceed more than 3m or 10' intervals.
- 8-Refer to Mitek sheet MII7473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

*T-1800218*

Feb 09, 2018