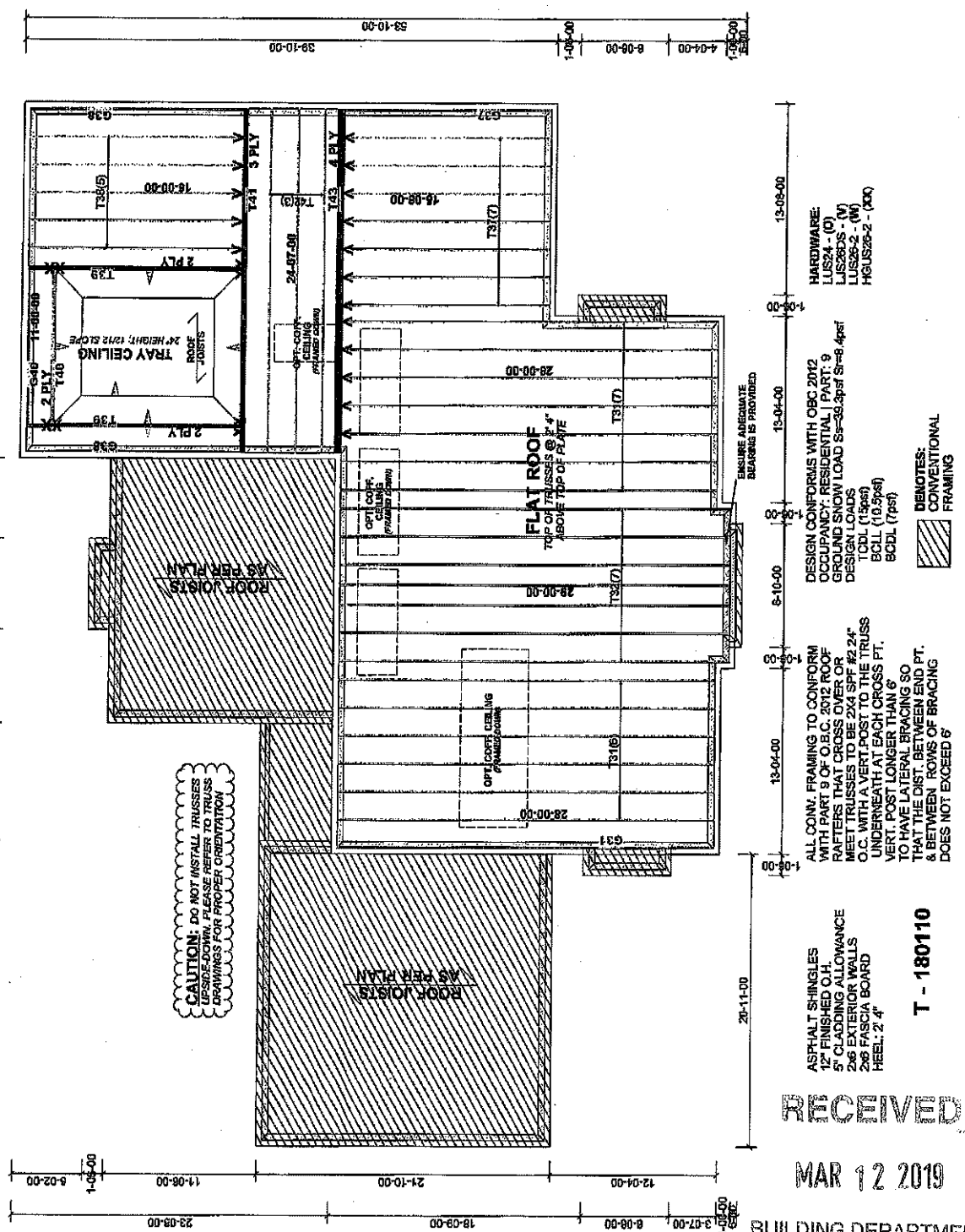


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**RECEIVED**  
MAR 12 2019  
BUILDING DEPARTMENT  
TOWN OF OAKVILLE

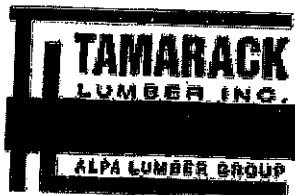
DESIGN CONFORMS WITH OBC 2012  
OCCUPANCY: RESIDENTIAL | PART: 9  
GROUND SNOW LOAD  $S_s=36.3 \text{ psf}$   $S_f=8.4 \text{ psf}$   
DESIGN LOADS  
T30L (13668)  
BCDL (103764)  
BCDL (7754)

**HARDWARE:**  
LUS24 - (O)  
LUS25S - (W)  
LUS25-2 - (W)  
HUS25-2 - (XO)

**NOTES:**  
CONVENTIONAL  
FRAMING

**T - 180110**

|                                                                                             |                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GREEN YORK HOMES / OAKVILLE</b><br>Model / Elevation: <b>GEORGIAN 4 / B</b> <b>LOT 3</b> |                                                                                                                                                                                                                                                                                                                                                  |
| Project: <b>TIBURTINO</b><br>Date: 03/05/18 Designer: colth                                 | 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.<br>Mtek ver. 7.5.0 |
| Job Track: <b>45487</b><br>Layout ID: <b>292724</b><br>Plan Log: <b>95790</b>               | Tamarack Roof Trusses Inc.<br>11111 17th Ave S<br>Suite 100<br>Golden, CO 80401<br>Phone: 303.440.1111<br>Email: info@tamaracktrusses.com                                                                                                                                                                                                        |



## Delivery Shiplist

Page 1 of 2

|           |          |
|-----------|----------|
| DATE      | 03/05/18 |
| SALES REP | Rick     |

|                                       |                   |                    |
|---------------------------------------|-------------------|--------------------|
| JOB TRACK:45487                       | LAYOUT ID: 292720 | LOCATION: OAKVILLE |
| BUILDER: GREEN YORK HOMES / TIBURTINO | SUB-BUILDER:      |                    |
| MODEL: GEORGIAN 4                     | ELEVATION: A      |                    |

### ROOF TRUSSES

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

| PROFILE | QTY<br>PLY | MARK<br>TYPE      | PITCH<br>TC<br>BC | SPAN     | TRUSS<br>HEIGHT | LUMBER |       | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY:<br>REMARKS |
|---------|------------|-------------------|-------------------|----------|-----------------|--------|-------|---------------------------|------------------------------|------------------|---------------------|---------------------|
|         |            |                   |                   |          |                 | TOP    | BOT   |                           |                              |                  |                     |                     |
|         | 6          | T1<br>HIP         | 16.00<br>0.00     | 28-00-00 | 04-08-00        | 2 X 4  | 2 X 6 | 00-05-00<br>00-05-00      | 00-06-01<br>00-06-01         | 889.08<br>553.98 |                     |                     |
|         | 1          | T1Z<br>HIP        | 16.00<br>0.00     | 28-00-00 | 04-08-00        | 2 X 4  | 2 X 6 | 00-05-00<br>00-05-00      | 00-06-01<br>00-06-01         | 148.18<br>92.33  |                     |                     |
|         | 2          | T1Z2<br>HIP       | 16.00<br>0.00     | 28-00-00 | 04-08-00        | 2 X 4  | 2 X 6 | 00-05-00<br>00-05-00      | 00-06-01<br>00-06-01         | 298.36<br>184.66 |                     |                     |
|         | 1          | T1Z3<br>HIP       | 16.00<br>0.00     | 28-00-00 | 04-08-00        | 2 X 4  | 2 X 6 | 00-05-00<br>00-05-00      | 00-06-01<br>00-06-01         | 148.18<br>92.33  |                     |                     |
|         | 8          | T3<br>HIP         | 16.00<br>0.00     | 26-05-00 | 04-08-00        | 2 X 4  | 2 X 4 | 00-05-00<br>00-05-00      | 00-06-01<br>00-06-01         | 966.56<br>605.36 |                     |                     |
|         | 7          | T8<br>HALF HIP    | 16.00<br>0.00     | 15-06-00 | 04-08-00        | 2 X 4  | 2 X 4 | 00-05-00<br>00-00-00      | 00-06-01<br>04-08-00         | 477.33<br>313.81 |                     |                     |
|         | 1          | T8Z<br>HALF HIP   | 16.00<br>0.00     | 15-06-00 | 04-08-00        | 2 X 4  | 2 X 4 | 00-05-00<br>00-00-00      | 00-06-01<br>04-08-00         | 68.18<br>44.83   |                     |                     |
|         | 1          | T9<br>HIP GIRDER  | 16.00<br>0.00     | 24-07-00 | 03-00-01        | 2 X 4  | 2 X 6 | 00-05-00<br>00-05-00      | 00-06-01<br>00-06-01         | 120.40<br>76.50  |                     |                     |
|         | 3          | T10<br>HIP        | 16.00<br>0.00     | 24-07-00 | 04-08-00        | 2 X 4  | 2 X 4 | 00-05-00<br>00-05-00      | 00-06-01<br>00-06-01         | 310.23<br>199.50 |                     |                     |
|         | 7          | T10S<br>HIP       | 16.00<br>12.00    | 24-07-00 | 04-08-00        | 2 X 4  | 2 X 4 | 00-05-00<br>00-05-00      | 00-06-01<br>00-06-01         | 883.82<br>561.19 |                     |                     |
|         | 1<br>3 Ply | T11<br>HIP GIRDER | 16.00<br>0.00     | 24-07-00 | 04-08-00        | 2 X 4  | 2 X 6 | 00-05-00<br>00-00-00      | 00-06-01<br>00-06-01         | 399.06<br>245.01 |                     |                     |
|         | 7          | T12<br>HALF HIP   | 16.00<br>0.00     | 18-05-08 | 04-10-08        | 2 X 4  | 2 X 6 | 00-05-00<br>00-00-00      | 01-06-03<br>00-05-08         | 765.66<br>463.19 |                     |                     |
|         | 1<br>2 Ply | T12Z<br>HALF HIP  | 16.00<br>0.00     | 18-05-08 | 04-10-08        | 2 X 4  | 2 X 6 | 00-05-00<br>00-00-00      | 01-06-03<br>00-05-08         | 218.76<br>132.34 |                     |                     |
|         | 7          | T13<br>HIP        | 16.00<br>0.00     | 21-00-00 | 05-05-08        | 2 X 6  | 2 X 6 | 00-05-00<br>00-05-00      | 00-05-08<br>00-05-08         | 907.69<br>564.69 |                     |                     |
|         | 1          | T13Z<br>HIP       | 16.00<br>0.00     | 21-00-00 | 05-05-08        | 2 X 6  | 2 X 6 | 00-05-00<br>00-05-00      | 00-05-08<br>00-05-08         | 129.67<br>80.67  |                     |                     |
|         | 1          | T13Z2<br>HIP      | 16.00<br>0.00     | 21-00-00 | 05-05-08        | 2 X 6  | 2 X 6 | 00-05-00<br>00-05-00      | 00-05-08<br>00-05-08         | 129.67<br>80.67  |                     |                     |
|         | 2          | T14<br>HALF HIP   | 16.00<br>0.00     | 07-05-00 | 05-05-08        | 2 X 4  | 2 X 4 | 00-05-00<br>00-00-00      | 00-03-08<br>05-05-08         | 79.12<br>52.00   |                     |                     |
|         | 24         | J1<br>JACK-OPEN   | 16.00<br>0.00     | 03-01-08 | 04-08-01        | 2 X 4  | 2 X 4 | 00-05-00<br>00-00-00      | 00-06-01<br>04-08-01         | 280.08<br>199.92 |                     |                     |



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 03/05/18 |
| SALES REP | Rick     |

|                                       |                   |                    |
|---------------------------------------|-------------------|--------------------|
| JOB TRACK: 45487                      | LAYOUT ID: 292720 | LOCATION: OAKVILLE |
| BUILDER: GREEN YORK HOMES / TIBURTINO | SUB-BUILDER:      |                    |
| MODEL: GEORGIAN 4                     | ELEVATION: A      |                    |

## ROOF TRUSSES

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

| PROFILE | QTY<br>PLY | MARK<br>TYPE     | PITCH<br>TC<br>BC | SPAN     | TRUSS<br>HEIGHT | LUMBER |       | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.    | BUNDLE #<br>STACK # | LOAD BY:<br>REMARKS |
|---------|------------|------------------|-------------------|----------|-----------------|--------|-------|---------------------------|------------------------------|-----------------|---------------------|---------------------|
|         |            |                  |                   |          |                 | TOP    | BOT   |                           |                              |                 |                     |                     |
|         | 4          | J2<br>JACK-OPEN  | 16.00<br>0.00     | 01-09-07 | 02-10-11        | 2 X 4  | 2 X 4 | 00-05-00<br>01-04-01      | 00-06-01<br>00-03-08         | 36.52<br>28.00  |                     |                     |
|         | 4          | J3<br>JACK-OPEN  | 16.00<br>0.00     | 01-09-07 | 02-10-11        | 2 X 4  | 2 X 4 | 00-05-00<br>00-01-01      | 00-06-01<br>00-03-08         | 30.80<br>22.68  |                     |                     |
|         | 12         | J4<br>JACK-OPEN  | 16.00<br>0.00     | 01-10-08 | 03-00-01        | 2 X 4  | 2 X 4 | 00-05-00<br>00-00-00      | 00-06-01<br>03-00-01         | 94.44<br>68.04  |                     |                     |
|         | 9          | J5<br>JACK-OPEN  | 16.00<br>0.00     | 02-06-04 | 04-10-08        | 2 X 4  | 2 X 4 | 00-05-00<br>00-00-00      | 01-06-03<br>04-10-08         | 93.51<br>65.97  |                     |                     |
|         | 1          | J6<br>JACK-OPEN  | 16.00<br>0.00     | 01-09-07 | 03-10-12        | 2 X 4  | 2 X 4 | 00-05-00<br>00-08-13      | 01-06-03<br>00-03-08         | 9.00<br>6.67    |                     |                     |
|         | 1          | J7<br>JACK-OPEN  | 16.00<br>0.00     | 01-09-07 | 03-10-12        | 2 X 4  | 2 X 4 | 00-05-00<br>00-01-01      | 01-06-03<br>00-03-08         | 8.26<br>6.00    |                     |                     |
|         | 5          | J8<br>JACK-OPEN  | 4.00<br>0.00      | 06-09-00 | 02-10-03        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 00-11-03<br>02-10-03         | 78.15<br>50.00  |                     |                     |
|         | 11         | J9<br>JACK-OPEN  | 16.00<br>0.00     | 03-04-00 | 05-05-08        | 2 X 4  | 2 X 4 | 00-05-00<br>00-00-00      | 00-03-08<br>05-05-08         | 145.97<br>95.37 |                     |                     |
|         | 3          | J10<br>JACK-OPEN | 16.00<br>0.00     | 01-09-07 | 03-04-12        | 2 X 4  | 2 X 4 | 00-05-00<br>01-06-09      | 00-03-08<br>00-03-08         | 30.99<br>20.01  |                     |                     |
|         | 3          | J11<br>JACK-OPEN | 16.00<br>0.00     | 01-09-07 | 03-04-12        | 2 X 4  | 2 X 4 | 00-05-00<br>00-01-01      | 00-03-08<br>00-03-08         | 26.01<br>18.00  |                     |                     |

TOTAL # TRUSS= 137.00

TOTAL BFT OF ALL TRUSSES=

4923.72 BFT. TOTAL WEIGHT OF ALL TRUSSES= 7771.68 LBS.

## HARDWARE

| QTY | ITEM TYPE | MODEL    | LENGTH<br>FT-IN-16 |
|-----|-----------|----------|--------------------|
| 17  | Hangers   | LJS26DS  |                    |
| 4   | Hangers   | HGUS26-2 |                    |

TOTAL # ITEMS= 21.00



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 03/05/18 |
| SALES REP | Rick     |

|                                       |                   |                    |
|---------------------------------------|-------------------|--------------------|
| JOB TRACK: 45487                      | LAYOUT ID: 292724 | LOCATION: OAKVILLE |
| BUILDER: GREEN YORK HOMES / TIBURTINO | SUB-BUILDER:      |                    |
| MODEL: GEORGIAN 4                     | 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<br>TOP BOT | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.       | BUNDLE #<br>STACK # | LOAD BY:<br>REMARKS |
|---------|------------|--------------------|-------------------|----------|-----------------|-------------------|---------------------------|------------------------------|--------------------|---------------------|---------------------|
|         | 13         | T31<br>FLAT        | 0.00<br>0.00      | 28-00-00 | 02-04-00        | 2 X 6 2 X 6       | 00-00-00<br>00-00-00      | 02-04-00<br>02-04-00         | 1850.55<br>1157.00 |                     |                     |
|         | 1          | G31<br>GABLE       | 0.00<br>0.00      | 28-00-00 | 02-04-00        | 2 X 4 2 X 4       | 00-00-00<br>00-00-00      | 02-04-00<br>02-04-00         | 92.35<br>58.67     |                     |                     |
|         | 7          | T32<br>FLAT        | 0.00<br>0.00      | 29-00-00 | 02-04-00        | 2 X 6 2 X 6       | 00-00-00<br>00-00-00      | 02-04-00<br>02-04-00         | 1029.14<br>623.00  |                     |                     |
|         | 7          | T37<br>FLAT        | 0.00<br>0.00      | 15-06-00 | 02-04-00        | 2 X 4 2 X 4       | 00-00-00<br>00-00-00      | 02-04-00<br>02-04-00         | 397.46<br>254.31   |                     |                     |
|         | 1          | G37<br>GABLE       | 0.00<br>0.00      | 15-06-00 | 02-04-00        | 2 X 4 2 X 4       | 00-00-00<br>00-00-00      | 02-04-00<br>02-04-00         | 53.19<br>34.00     |                     |                     |
|         | 5          | T38<br>FLAT        | 0.00<br>0.00      | 16-00-00 | 02-04-00        | 2 X 4 2 X 4       | 00-00-00<br>00-00-00      | 02-04-00<br>02-04-00         | 291.50<br>188.35   |                     |                     |
|         | 2          | G38<br>FLAT        | 0.00<br>0.00      | 16-00-00 | 02-04-00        | 2 X 4 2 X 4       | 00-00-00<br>00-00-00      | 02-04-00<br>02-04-00         | 108.66<br>70.66    |                     |                     |
|         | 2<br>2 Ply | T39<br>FLAT GIRDER | 0.00<br>0.00      | 16-00-00 | 02-04-00        | 2 X 8 2 X 6       | 00-00-00<br>00-00-00      | 02-04-00<br>02-04-00         | 359.00<br>242.68   |                     |                     |
|         | 1<br>2 Ply | T40<br>FLAT        | 0.00<br>0.00      | 11-00-00 | 02-04-00        | 2 X 6 2 X 6       | 00-00-00<br>00-00-00      | 02-04-00<br>02-04-00         | 115.44<br>74.66    |                     |                     |
|         | 1          | G40<br>GABLE       | 0.00<br>0.00      | 11-00-00 | 02-04-00        | 2 X 4 2 X 4       | 00-00-00<br>00-00-00      | 02-04-00<br>02-04-00         | 40.07<br>25.33     |                     |                     |
|         | 1<br>3 Ply | T41<br>FLAT GIRDER | 0.00<br>0.00      | 24-07-00 | 02-04-00        | 2 X 6 2 X 6       | 00-00-00<br>00-00-00      | 02-04-00<br>02-04-00         | 394.47<br>247.98   |                     |                     |
|         | 3          | T42<br>FLAT        | 0.00<br>0.00      | 24-07-00 | 02-04-00        | 2 X 6 2 X 6       | 00-00-00<br>00-00-00      | 02-04-00<br>02-04-00         | 361.08<br>222.51   |                     |                     |
|         | 1<br>4 Ply | T43<br>FLAT GIRDER | 0.00<br>0.00      | 24-07-00 | 02-04-00        | 2 X 6 2 X 6       | 00-00-00<br>00-00-00      | 02-04-00<br>02-04-00         | 521.56<br>320.00   |                     |                     |

TOTAL # TRUSS= 53.00

TOTAL BFT OF ALL TRUSSES=

3519.15 BFT. TOTAL WEIGHT OF ALL TRUSSES= 5614.47 LBS.

## HARDWARE

| QTY | ITEM TYPE | MODEL    | LENGTH<br>FT-IN-16 |
|-----|-----------|----------|--------------------|
| 17  | Hangers   | LJS26DS  |                    |
| 4   | Hangers   | HGUS26-2 |                    |

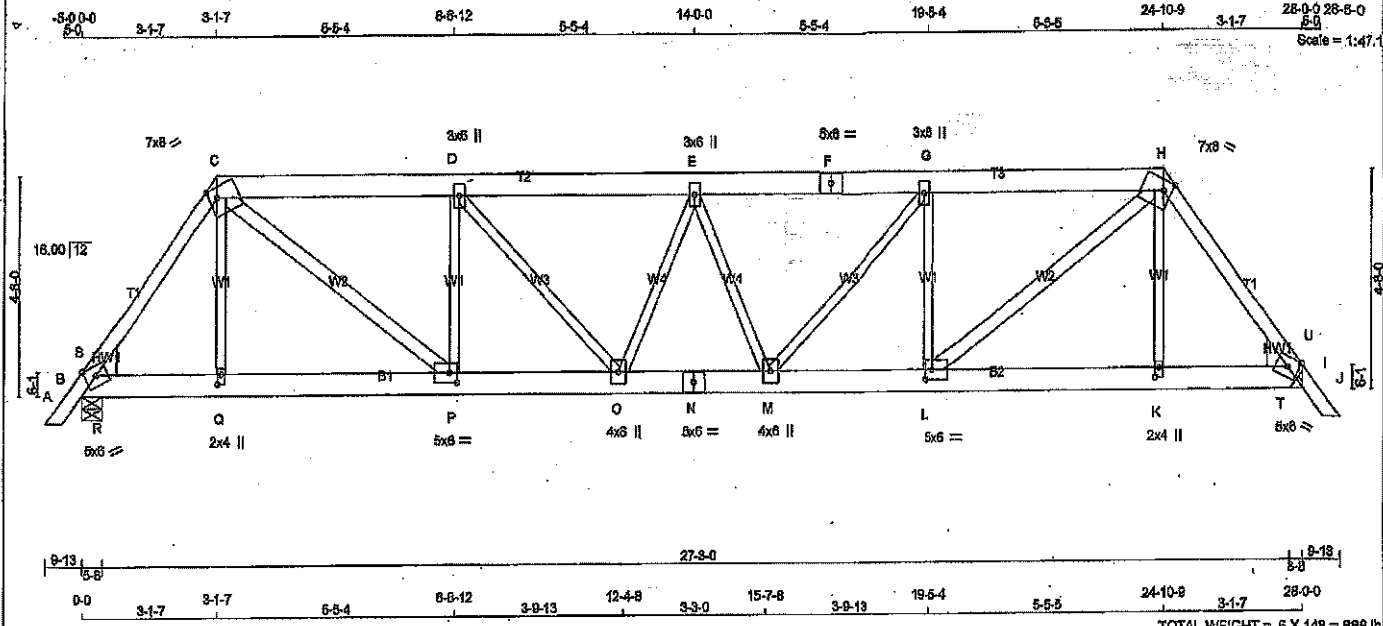
TOTAL # ITEMS= 21.00

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 292720   | T1         | 6        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

Version 8.200 8 Jan 6 2016 Mitek Industries, Inc. Mon Mar 5 15:36:20 2016 Page 1

ID:bpmCISm7RE0kNFeerNPP0sy48Lj-XsHxo4GHC7257aCylVdYmcrB9zID6eE6IOo6zdxgv



| LUMBER            |      |        |            |     |
|-------------------|------|--------|------------|-----|
| N. L. G. A. RULES | SIZE | LUMBER | DESCR.     | SPF |
| CHORDS            |      |        |            |     |
| A - C             | 2x4  | DRY    | No.2       | SPF |
| C - F             | 2x6  | DRY    | No.2       | SPF |
| F - H             | 2x6  | DRY    | No.2       | SPF |
| H - J             | 2x4  | DRY    | No.2       | SPF |
| B - N             | 2x6  | DRY    | 2100F 1.8E | SPF |
| N - I             | 2x6  | DRY    | 2100F 1.8E | SPF |
| ALL WEBS          | 2x3  | DRY    | No.2       | SPF |
| EXCEPT            |      |        |            |     |
| C - P             | 2x4  | DRY    | No.2       | SPF |
| L - H             | 2x4  | DRY    | No.2       | SPF |

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |         |      |       |               |
|-----------------------------|---------|------|-------|---------------|
| JT TYPE                     | PLATES  | W    | LEN Y | X             |
| B                           | TMBH1-m | MT20 | 6.0   | 8.0 Edge      |
| C                           | TTWW-m  | MT20 | 7.0   | 6.0 2.50 2.25 |
| D, E, G                     |         |      |       |               |
| D                           | TTWW+1  | MT20 | 3.0   | 6.0           |
| F                           | TS-4    | MT20 | 5.0   | 6.0           |
| H                           | TTWW-m  | MT20 | 7.0   | 8.0 2.50 2.25 |
| I                           | TMBH1-m | MT20 | 6.0   | 8.0 Edge      |
| K                           | BMWW-w  | MT20 | 2.0   | 4.0 2.50 1.00 |
| L                           | BMWW-4  | MT20 | 6.0   | 6.0 2.50 2.00 |
| M                           | BMWW+1  | MT20 | 4.0   | 6.0           |
| N                           | BS-4    | MT20 | 5.0   | 6.0           |
| O                           | BMWW+1  | MT20 | 4.0   | 6.0           |
| P                           | BMWW-1  | MT20 | 5.0   | 6.0 2.50 2.00 |
| Q                           | BMWW-w  | MT20 | 2.0   | 4.0 2.50 1.00 |

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

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

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING

| BEARINGS       |      |                  |      |       |        |       |       |
|----------------|------|------------------|------|-------|--------|-------|-------|
| FACTORED       |      | MAXIMUM FACTORED |      | INPUT |        | REQD  |       |
| GROSS REACTION |      | GROSS REACTION   |      | BRG   | BRG    | HEEL  |       |
| JT             | VERT | HORZ             | DOWN | HORZ  | UPLIFT | IN-SX | IN-SX |
| B              | 2285 | 0                | 2285 | 0     | 0      | 5-8   | 5-8   |
| I              | 2285 | 0                | 2285 | 0     | 0      | 5-8   | 5-8   |

UNFACTORED REACTIONS

| 1ST LCASE MAX./MIN. COMPONENT REACTIONS |          |       |       |           |      |       |      |
|-----------------------------------------|----------|-------|-------|-----------|------|-------|------|
| JT                                      | COMBINED | SNOW  | LIVE  | PERM.LIVE | WIND | DEAD  | SOIL |
| B                                       | 1812     | 881/0 | 284/0 | 0/0       | 0/0  | 637/0 | 0/0  |
| I                                       | 1812     | 881/0 | 284/0 | 0/0       | 0/0  | 637/0 | 0/0  |

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.84 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |              | WEBS  |                           |              |  |
|--------|---------------------------|---------------------------|--------------|-------|---------------------------|--------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS (LC) |  |
| FR-TO  |                           | FROM TO                   |              | FR-TO |                           |              |  |
| A-B    | 0/35                      | -127.4 -127.4 0.08 (1)    | 10.00        | Q-C   | 0/281                     | 0.09 (3)     |  |
| B-S    | -2348/0                   | -127.4 -127.4 0.25 (1)    | 3.74         | C-P   | 0/2152                    | 0.46 (1)     |  |
| S-C    | -2443/0                   | -127.4 -127.4 0.31 (1)    | 3.69         | P-D   | -1182/0                   | 0.44 (1)     |  |
| C-D    | -3157/0                   | -127.4 -127.4 0.42 (1)    | 3.85         | D-O   | 0/547                     | 0.16 (1)     |  |
| D-E    | -3519/0                   | -127.4 -127.4 0.45 (1)    | 3.84         | O-E   | -353/0                    | 0.15 (1)     |  |
| E-F    | -3519/0                   | -127.4 -127.4 0.45 (1)    | 3.84         | E-M   | -353/0                    | 0.15 (1)     |  |
| F-G    | -3519/0                   | -127.4 -127.4 0.45 (1)    | 3.84         | M-G   | 0/547                     | 0.16 (1)     |  |
| G-H    | -3157/0                   | -127.4 -127.4 0.42 (1)    | 3.85         | L-G   | -1182/0                   | 0.44 (1)     |  |
| H-U    | -2443/0                   | -127.4 -127.4 0.31 (1)    | 3.85         | L-H   | 0/2182                    | 0.46 (1)     |  |
| U-I    | -2348/0                   | -127.4 -127.4 0.25 (1)    | 3.74         | K-H   | 0/281                     | 0.09 (3)     |  |
| I-J    | 0/35                      | -127.4 -127.4 0.08 (1)    | 10.00        | R-S   | -317/0                    | 0.00 (1)     |  |
|        |                           |                           |              | T-U   | -317/0                    | 0.00 (1)     |  |
| B-R    | 0/1449                    | -28.0 -28.0 0.15 (1)      | 10.00        |       |                           |              |  |
| R-Q    | 0/1449                    | -28.0 -28.0 0.15 (1)      | 10.00        |       |                           |              |  |
| Q-P    | 0/1454                    | -28.0 -28.0 0.12 (1)      | 10.00        |       |                           |              |  |
| P-O    | 0/13167                   | -28.0 -28.0 0.24 (1)      | 10.00        |       |                           |              |  |
| O-N    | 0/13553                   | -28.0 -28.0 0.28 (1)      | 10.00        |       |                           |              |  |
| N-M    | 0/13553                   | -28.0 -28.0 0.28 (1)      | 10.00        |       |                           |              |  |
| M-L    | 0/13167                   | -28.0 -28.0 0.24 (1)      | 10.00        |       |                           |              |  |
| L-K    | 0/1454                    | -28.0 -28.0 0.12 (1)      | 10.00        |       |                           |              |  |
| K-T    | 0/1449                    | -28.0 -28.0 0.15 (1)      | 10.00        |       |                           |              |  |
| T-I    | 0/1449                    | -28.0 -28.0 0.15 (1)      | 10.00        |       |                           |              |  |

DESIGN CRITERIA

SPECIFIED LOADS:

|            |               |
|------------|---------------|
| TOP CH.    | LL = 30.0 PSF |
|            | DL = 15.0 PSF |
| BOT CH.    | LL = 10.5 PSF |
|            | DL = 7.0 PSF  |
| TOTAL LOAD | = 62.5 PSF    |

SPACING = 24.0 IN. G.C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

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

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

(65% OF 30.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = 1/360 (0.83")  
CALCULATED VERT. DEFL. (LL) = 1/999 (0.10")  
ALLOWABLE DEFL. (TL) = 1/280 (0.83")  
CALCULATED VERT. DEFL. (TL) = 1/999 (0.20")

CSK TC=0.45/1.00 (E-G-1), BC=0.28/1.00 (A-O-1), WB=0.46/1.00 (H-L-1), SSI=0.33/1.00 (G-H-1)

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

COMPANION LIVE LOAD FACTOR = 0.50  
FLAT ROOF FACTOR = 0.75

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

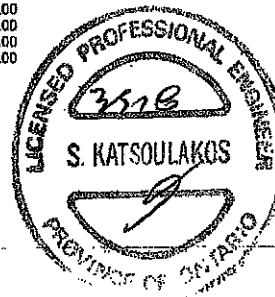
NAIL VALUES

| PLATE GRIP(DRY) | SHEAR                      | SECTION |
|-----------------|----------------------------|---------|
| (PSI)           | (PLI)                      | (PLI)   |
| MAX MIN         | MAX MIN                    | MAX MIN |
| MT20            | 618 354 1687 822 2284 1658 |         |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.99 (C) (INPUT = 0.99)  
JSI METAL= 0.82 (N) (INPUT = 0.82)



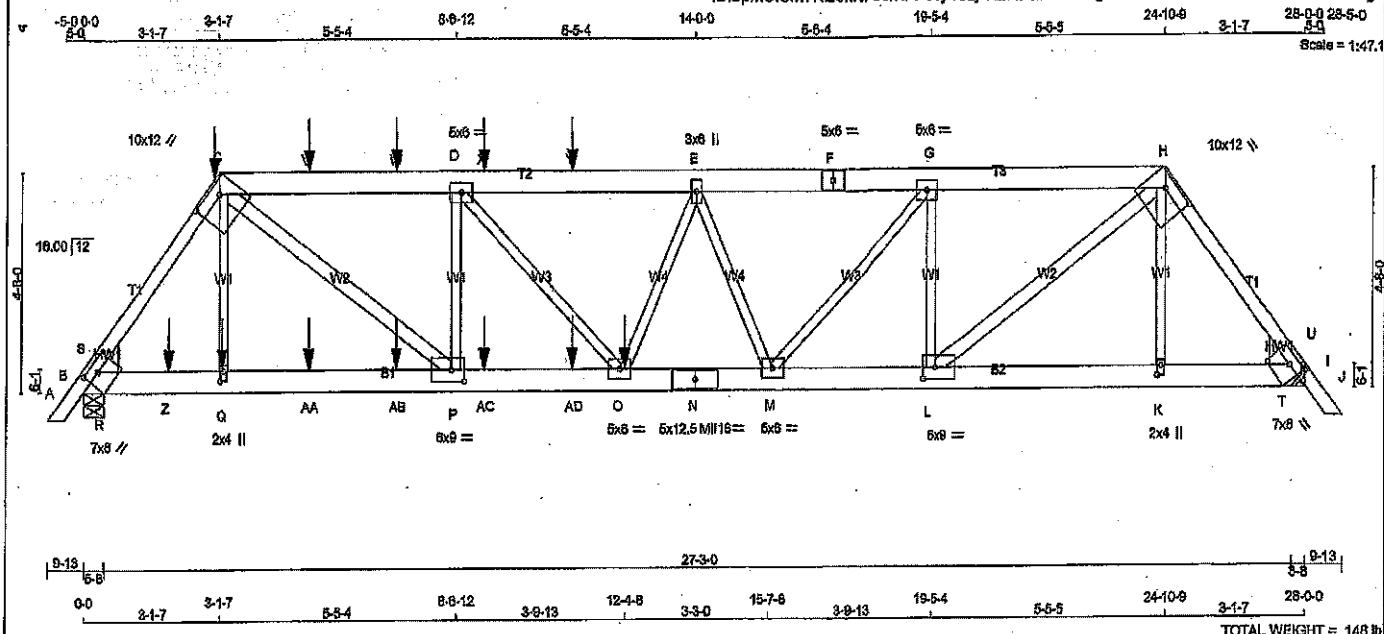
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Version 8.200 S Jan 8 2018 MitTek Industries, Inc. Mon Mar 6 15:36:21 2018 Page 1  
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**TOTAL WEIGHT = 148 lb**

| LUMBER                |     |      |            |        |     |
|-----------------------|-----|------|------------|--------|-----|
| N. L. G. A. RULES     |     |      |            |        |     |
| CHORDS                |     | SIZE | LUMBER     | DESCR. |     |
| A - C                 | 2x4 | DRY  | No.2       | 8PF    |     |
| C - F                 | 2x6 | DRY  | No.2       | 8PF    |     |
| F - H                 | 2x6 | DRY  | No.2       | 8PF    |     |
| H - J                 | 2x4 | DRY  | No.2       | 8PF    |     |
| B - N                 | 2x6 | DRY  | 2100F 1.8E | 8PF    |     |
| N - I                 | 2x6 | DRY  | 2100F 1.8E | 8PF    |     |
| ALL WEBS<br>EXCEPT    |     | 2x3  | DRY        | No.2   | 8PF |
| C - P                 | 2x4 | DRY  | No.2       | 8PF    |     |
| L - H                 | 2x4 | DRY  | No.2       | 8PF    |     |
| DRY: SEASONED LUMBER. |     |      |            |        |     |

**PLATES** (table 8 in inches)

| JT | PLATES | W    | LEN  | Y    | X         |
|----|--------|------|------|------|-----------|
| B  | TMBH-1 | MT20 | 7.0  | 8.0  | 2.25 3.50 |
| C  | TTWW-h | MT20 | 10.0 | 12.0 | 2.76 7.25 |
| D  | TTWW-1 | MT20 | 5.0  | 6.0  |           |
| E  | TTWW-h | MT20 | 3.0  | 6.0  |           |
| F  | TS-1   | MT20 | 5.0  | 6.0  |           |
| G  | TTWW-1 | MT20 | 5.0  | 6.0  |           |
| H  | TTWW-h | MT20 | 10.0 | 12.0 | 2.76 7.25 |
| I  | TMBH-h | MY20 | 7.0  | 8.0  | 2.25 3.50 |
| K  | BMW-h  | MT20 | 2.0  | 4.0  | 2.50 1.00 |
| L  | BMWW-1 | MT20 | 6.0  | 9.0  | 3.00 3.50 |
| M  | BMWW-1 | MT20 | 5.0  | 6.0  |           |
| N  | BS-1   | MH18 | 5.0  | 12.5 |           |
| O  | BMWW-1 | MT20 | 5.0  | 6.0  |           |
| P  | BMWW-1 | MT20 | 6.0  | 9.0  | 3.00 3.50 |
| Q  | BMWW-h | MT20 | 2.0  | 4.0  | 2.50 1.00 |

## HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 162.6 lbs FACTORED DOWN AT 9'-17, 39.7 lbs FACTORED DOWN AT 5'-4, 39.7 lbs FACTORED DOWN AT 7'-4, AND 38.7 lbs FACTORED DOWN AT 9'-2, AND 38.7 lbs FACTORED DOWN AT 11'-2 ON TOP CHORD, AND 28.4 lbs FACTORED DOWN AT 1'-17, 47.7 lbs FACTORED DOWN AT 3'-2, 47.7 lbs FACTORED DOWN AT 5'-2, 47.7 lbs FACTORED DOWN AT 7'-2, 47.7 lbs FACTORED DOWN AT 9'-2, AND 47.7 lbs FACTORED DOWN AT 11'-2, AND 1028.2 lbs FACTORED DOWN AT 12'-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING

| BEARINGS       |      | FACTORED       |      | MAXIMUM FACTORED |        | INPUT            | REQ'D |       |
|----------------|------|----------------|------|------------------|--------|------------------|-------|-------|
| GROSS REACTION |      | GROSS REACTION |      |                  |        | BRG              | BRG   | HEEL  |
| JT             | VERT | HORZ           | DOWN | HORZ             | UPLIFT | IN-SX            | IN-SX | WEDGE |
| B              | 3303 | 0              | 3303 | 0                | 0      | 5-8              | 5-8   | 2x8 L |
| I              | 2844 | 0              | 2844 | 0                | 0      | HANGER BY OTHERS |       | 2x8 R |

### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |         |            |       |         |       |
|-----------|----------|-------------------------------|---------|------------|-------|---------|-------|
| JT        | COMBINED | SNOW                          | LIVE    | PERM. LIVE | WIND  | DEAD    | SOIL  |
| B         | 2632     | 1282 / 0                      | 410 / 0 | 0 / 0      | 0 / 0 | 940 / 0 | 0 / 0 |
|           | 2686     | 1113 / 0                      | 356 / 0 | 0 / 0      | 0 / 0 | 787 / 0 | 0 / 0 |

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

## BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.47 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        |             |                  |           |               | WEBBS              |       |             |               |  |
|---------------|-------------|------------------|-----------|---------------|--------------------|-------|-------------|---------------|--|
| MAX. FACTORED |             | FACTORED         |           |               | MAX. FACTORED      |       |             |               |  |
| MEMB.         | FORCE (LBS) | VERT. LOAD (LBS) | LC1 (PLF) | MAX. CSI (LG) | MAX. UNBRAC LENGTH | MEMB. | FORCE (LBS) | MAX. CSI (LG) |  |
| FR-TO         |             | FROM             | TO        |               |                    | FR-TO |             |               |  |
| A-B           | 0 / 35      | -127.4           | -127.4    | 0.07 (1)      | 10.00              | Q-C   | 0 / 343     | 0.12 (3)      |  |
| B-S           | -3671 / 0   | -127.4           | -127.4    | 0.46 (1)      | 2.73               | C-P   | 0 / 3352    | 0.79 (1)      |  |
| S-C           | -3723 / 0   | -127.4           | -127.4    | 0.58 (1)      | 2.70               | P-D   | -1759 / 0   | 0.89 (1)      |  |
| C-V           | -4876 / 0   | -127.4           | -127.4    | 0.88 (1)      | 2.81               | D-O   | 0 / 1168    | 0.38 (1)      |  |
| V-W           | -4876 / 0   | -127.4           | -127.4    | 0.88 (1)      | 2.81               | O-E   | 0 / 231     | 0.08 (1)      |  |
| W-D           | -4876 / 0   | -127.4           | -127.4    | 0.88 (1)      | 2.81               | E-M   | -951 / 0    | 0.43 (1)      |  |
| D-X           | -5847 / 0   | -127.4           | -127.4    | 0.79 (1)      | 2.47               | M-G   | 0 / 1512    | 0.43 (1)      |  |
| X-Y           | -5847 / 0   | -127.4           | -127.4    | 0.79 (1)      | 2.47               | L-G   | -1754 / 0   | 0.99 (1)      |  |
| Y-E           | -5947 / 0   | -127.4           | -127.4    | 0.79 (1)      | 2.47               | L-H   | 0 / 3038    | 0.75 (1)      |  |
| E-F           | -5947 / 0   | -127.4           | -127.4    | 0.58 (1)      | 2.74               | K-H   | 0 / 255     | 0.10 (3)      |  |
| F-G           | -5198 / 0   | -127.4           | -127.4    | 0.68 (1)      | 2.74               | R-S   | -261 / 0    | 0.00 (1)      |  |
| G-H           | -4810 / 0   | -127.4           | -127.4    | 0.57 (1)      | 3.13               | T-U   | -288 / 0    | 0.00 (1)      |  |
| H-U           | -3087 / 0   | -127.4           | -127.4    | 0.47 (1)      | 3.05               |       |             |               |  |
| U-I           | -3087 / 0   | -127.4           | -127.4    | 0.39 (1)      | 3.10               |       |             |               |  |
| I-J           | 0 / 35      | -127.4           | -127.4    | 0.07 (1)      | 10.00              |       |             |               |  |
|               |             |                  |           |               |                    |       |             |               |  |
| B-R           | 0 / 2216    | -28.0            | -28.0     | 0.21 (1)      | 10.00              |       |             |               |  |
| R-Z           | 0 / 2216    | -28.0            | -28.0     | 0.21 (1)      | 10.00              |       |             |               |  |
| Z-Q           | 0 / 2216    | -28.0            | -28.0     | 0.21 (1)      | 10.00              |       |             |               |  |
| Q-AA          | 0 / 2223    | -28.0            | -28.0     | 0.21 (1)      | 10.00              |       |             |               |  |
| AA-AB         | 0 / 2223    | -28.0            | -28.0     | 0.21 (1)      | 10.00              |       |             |               |  |
| AB-P          | 0 / 2223    | -28.0            | -28.0     | 0.21 (1)      | 10.00              |       |             |               |  |
| P-AC          | 1 / 4876    | -28.0            | -28.0     | 0.43 (1)      | 10.00              |       |             |               |  |
| AC-AD         | 1 / 4876    | -28.0            | -28.0     | 0.43 (1)      | 10.00              |       |             |               |  |
| AD-O          | 1 / 4876    | -28.0            | -28.0     | 0.43 (1)      | 10.00              |       |             |               |  |
| O-N           | 0 / 5560    | -28.0            | -28.0     | 0.47 (1)      | 10.00              |       |             |               |  |
| N-M           | 0 / 5560    | -28.0            | -28.0     | 0.47 (1)      | 10.00              |       |             |               |  |
| M-L           | 0 / 4331    | -28.0            | -28.0     | 0.35 (1)      | 10.00              |       |             |               |  |
| L-K           | 0 / 1893    | -28.0            | -28.0     | 0.17 (1)      | 10.00              |       |             |               |  |
| K-T           | 0 / 1876    | -28.0            | -28.0     | 0.18 (1)      | 10.00              |       |             |               |  |
| T-I           | 0 / 1876    | -28.0            | -28.0     | 0.19 (1)      | 10.00              |       |             |               |  |



## FACTORED CONCENTRATED LOADS (LBS)

| ST | LOC.   | LOC1  | MAX-  | MAX+ | FACE  |   |
|----|--------|-------|-------|------|-------|---|
| C  | 3-1-7  | -162  | -162  | —    | FRONT | V |
| O  | 12-4-8 | -1026 | -1026 | —    | FRONT | V |
| Q  | 3-2-4  | -48   | -48   | —    | FRONT | V |
| V  | 6-2-4  | -40   | -40   | —    | FRONT | V |

## DESIGN CRITERIA

**SPECIFIED LOADS:**

|            |      |      |     |
|------------|------|------|-----|
| TOP CH.    | LL = | 30.0 | PSF |
|            | DL = | 15.0 | PSF |
| BOT CH.    | LL = | 10.6 | PSF |
|            | DL = | 7.0  | PSF |
| TOTAL LOAD | =    | 62.5 | PSF |

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

LOADING IN FLAT SECTION BASED ON A  
SLOPE OF 0.00/12

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 083-09  
- TPIC 2011

(55 % OF 39.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(L) =  $L/360$  (0.93")  
CALCULATED VERT. DEFL.(L) =  $L/999$  (0.16")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.93")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.31")

CSI: TC=0.78/1.00 (D-E:1), BC=0.47/1.00 (M-O:1)  
 , WB=0.78/1.00 (C-P:1), SS=0.41/1.00 (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 = 0.50  
FLAT ROOF FACTOR = 0.75

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

### NAIL VALUES

| PLATE | GRIP(DRY)<br>(FSI) |     | SHEAR<br>(PLI) |      | SECTION<br>(PLI) |      |
|-------|--------------------|-----|----------------|------|------------------|------|
|       | MAX                | MIN | MAX            | MIN  | MAX              | MIN  |
| MT20  | 618                | 354 | 1867           | 822  | 2284             | 1658 |
| MI18  | 473                | 278 | 2341           | 1245 | 4454             | 1858 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg

USI GRIP= 0.80 (F) (INPUT = 0.80 )  
USI METAL= 0.99 (H) (INPUT = 1.00 )

DWG NO. TAM 12437-18  
STRUCTURAL  
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CONTINUED ON PAGE 2

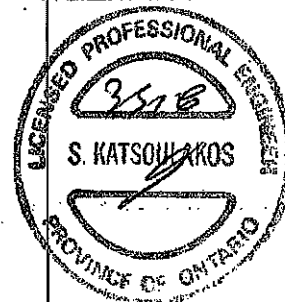
|                    |                   |               |          |                          |          |
|--------------------|-------------------|---------------|----------|--------------------------|----------|
| JOB NAME<br>292720 | TRUSS NAME<br>T1Z | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
|--------------------|-------------------|---------------|----------|--------------------------|----------|

Tarnarack Roof Truss, Burlington

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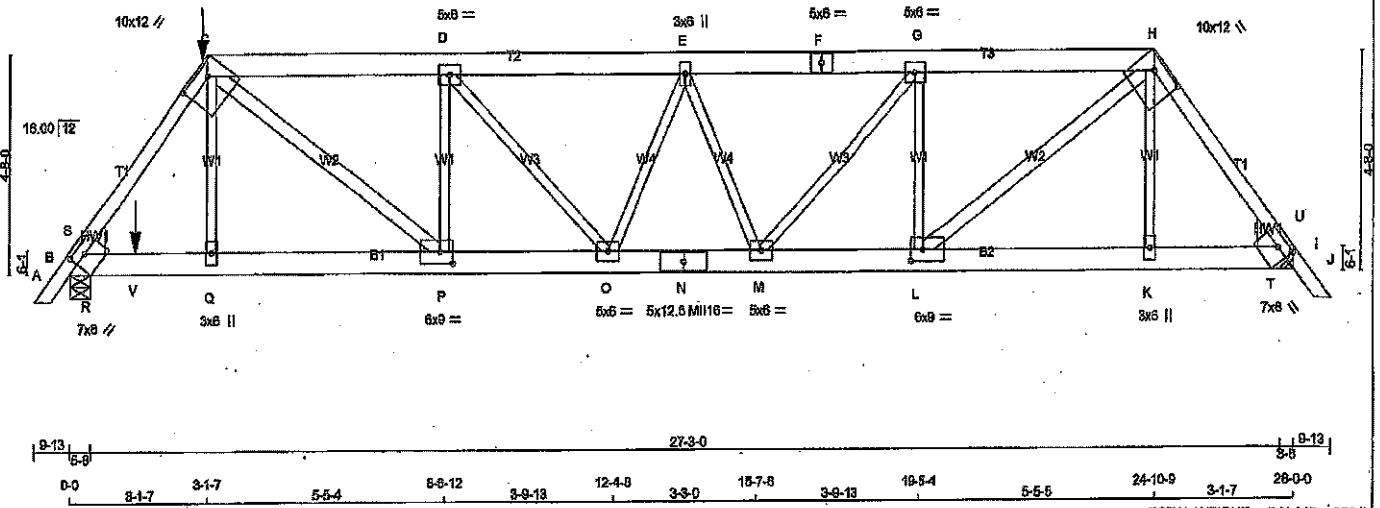
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| FACTORED CONCENTRATED LOADS (LBS) |        |     |      |      |       |      |       |  |
|-----------------------------------|--------|-----|------|------|-------|------|-------|--|
| JT                                | LOC.   | LCI | MAX- | MAX+ | FACE  | DIR. | TYPE  |  |
| W                                 | 7-2-4  | -40 | -40  | —    | FRONT | VERT | TOTAL |  |
| X                                 | 8-2-4  | -40 | -40  | —    | FRONT | VERT | TOTAL |  |
| Y                                 | 11-2-4 | -40 | -40  | —    | FRONT | VERT | TOTAL |  |
| Z                                 | 1-11-4 | -28 | -28  | —    | FRONT | VERT | TOTAL |  |
| AA                                | 5-2-4  | -48 | -48  | —    | FRONT | VERT | TOTAL |  |
| AB                                | 7-2-4  | -48 | -48  | —    | FRONT | VERT | TOTAL |  |
| AC                                | 9-2-4  | -48 | -48  | —    | FRONT | VERT | TOTAL |  |
| AD                                | 11-2-4 | -48 | -48  | —    | FRONT | VERT | TOTAL |  |



DRWG NO. TAM 12137-18  
STRUCTURAL  
COMPONENT ONLY

|                                                                                                                                                               |                           |                      |                 |                                 |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|-----------------|---------------------------------|----------|
| JOB NAME<br><b>292720</b>                                                                                                                                     | TRUSS NAME<br><b>T1Z2</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>TRUSS DESC.</b> | DRWG NO. |
| Version 8.200 S Jan 6 2018 MITek Industries, Inc. Mon Mar 6 15:36:21 2018 Page 1<br>ID:bpmCISm7REokNFee/NPP6sy48LJ-72rk7QHvabKagFamIEkAmJISbP81f6nTm2xLyzdXgu |                           |                      |                 |                                 |          |
| Tamareck Roof Truss, Burlington<br>-5-0-0 3-1-7 3-1-7 5-5-4 5-5-4 14-0-0 5-5-4 19-5-4 5-5-5 24-10-9 3-1-7 28-0-0 28-5-0<br>Scale = 1:47.1                     |                           |                      |                 |                                 |          |



| LUMBER                    |      |        |            |     |
|---------------------------|------|--------|------------|-----|
| N. L. G. A. RULES         |      |        |            |     |
| CHORDS                    | SIZE | LUMBER | DESCR.     |     |
| A - C                     | 2x4  | DRY    | No.2       | SPF |
| C - F                     | 2x6  | DRY    | No.2       | SPF |
| F - H                     | 2x6  | DRY    | No.2       | SPF |
| H - J                     | 2x4  | DRY    | No.2       | SPF |
| B - N                     | 2x6  | DRY    | 2100F 1.8E | SPF |
| N - I                     | 2x6  | DRY    | 2100F 1.8E | SPF |
| ALL WEBS 2x3 DRY No.2 SPF |      |        |            |     |
| EXCEPT                    |      |        |            |     |
| C - P                     | 2x4  | DRY    | No.2       | BPF |
| I - H                     | 2x4  | DRY    | No.2       | BPF |
| DRY: SEASONED LUMBER.     |      |        |            |     |

| PLATES (table in inches) |         |        |      |                |
|--------------------------|---------|--------|------|----------------|
| JT                       | TYPE    | PLATES | W    | LEN Y X        |
| B                        | TMBH1-h | MT20   | 7.0  | 8.0 2.25 3.50  |
| C                        | TTWW-h  | MT20   | 10.0 | 12.0 2.75 7.25 |
| D                        | TMMW-h  | MT20   | 5.0  | 6.0            |
| E                        | TMMW-h  | MT20   | 3.0  | 6.0            |
| F                        | TS-1    | MT20   | 5.0  | 6.0            |
| G                        | TMMW-h  | MT20   | 5.0  | 6.0            |
| H                        | TTWW-h  | MT20   | 10.0 | 12.0 2.75 7.25 |
| I                        | TMBH1-h | MT20   | 7.0  | 8.0 2.25 3.50  |
| K                        | BMWW-h  | MT20   | 3.0  | 6.0            |
| L                        | BMWW-h  | MT20   | 6.0  | 9.0 3.00 3.50  |
| M                        | BMWW-h  | MT20   | 5.0  | 6.0            |
| N                        | BS-1    | MT18   | 5.0  | 12.6           |
| O                        | BMWW-h  | MT20   | 5.0  | 6.0            |
| P                        | BMWW-h  | MT20   | 6.0  | 9.0 3.00 3.50  |
| Q                        | BMWW-h  | MT20   | 3.0  | 6.0            |

**HANGERS NOTES**  
 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 148.8 lbs FACTORED DOWN AT 3-1-7 ON TOP CHORD, AND 1183.8 lbs FACTORED DOWN AT 1-5-8 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**

| PROVIDE ADEQUATE DRAINAGE TO PREVENT FONDING |                |                  |       |      |        |       |       |       |       |
|----------------------------------------------|----------------|------------------|-------|------|--------|-------|-------|-------|-------|
| BEARINGS                                     |                |                  |       |      |        |       |       |       |       |
|                                              | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |        |       |       |       |       |
|                                              | GROSS REACTION | GROSS REACTION   | BRG   | BRG  | HEEL   |       |       |       |       |
| JT                                           | VERT           | HORZ             | DOWN  | HORZ | UPLIFT | IN-SX | IN-SX | 2x8 L | 2x8 R |
| B                                            | 3510           | 0                | 3510  | 0    | 0      | 5-8   | 5-8   |       |       |
| I                                            | 2343           | 0                | 2343  | 0    | 0      |       |       |       |       |

| UNFACTORED REACTIONS |          |          |         |           |       |         |       |
|----------------------|----------|----------|---------|-----------|-------|---------|-------|
| JT                   | COMBINED | SNOW     | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |
| B                    | 2787     | 1384 / 0 | 417 / 0 | 0 / 0     | 0 / 0 | 976 / 0 | 0 / 0 |
| I                    | 1872     | 914 / 0  | 301 / 0 | 0 / 0     | 0 / 0 | 658 / 0 | 0 / 0 |

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

**BRACING**  
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.82 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS |                           |                           |               | WEBS  |                           |               |          |
|--------|---------------------------|---------------------------|---------------|-------|---------------------------|---------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS1 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |          |
| FR-TO  |                           | FROM TO                   | LENGTH        | FR-TO |                           |               |          |
| A-B    | 0 / 35                    | -127.4 -127.4             | 0.07 (1)      | 10.00 | Q-C                       | 0 / 808       | 0.27 (1) |
| B-S    | -3361 / 0                 | -127.4 -127.4             | 0.26 (1)      | 3.12  | C-P                       | 0 / 1943      | 0.40 (1) |
| S-C    | -3250 / 0                 | -127.4 -127.4             | 0.54 (1)      | 2.82  | P-D                       | -1122 / 0     | 0.44 (1) |
| C-D    | -3504 / 0                 | -127.4 -127.4             | 0.50 (1)      | 3.53  | D-O                       | 0 / 487       | 0.15 (1) |
| D-E    | -3813 / 0                 | -127.4 -127.4             | 0.53 (1)      | 3.37  | O-E                       | -262 / 0      | 0.12 (1) |
| E-F    | -3745 / 0                 | -127.4 -127.4             | 0.52 (1)      | 3.41  | E-M                       | -443 / 0      | 0.20 (1) |
| F-G    | -3745 / 0                 | -127.4 -127.4             | 0.52 (1)      | 3.41  | M-G                       | 0 / 848       | 0.21 (1) |
| G-H    | -3318 / 0                 | -127.4 -127.4             | 0.46 (1)      | 3.64  | L-G                       | -1256 / 0     | 0.40 (1) |
| H-U    | -2540 / 0                 | -127.4 -127.4             | 0.36 (1)      | 3.50  | L-H                       | 0 / 2280      | 0.54 (1) |
| U-I    | -2448 / 0                 | -127.4 -127.4             | 0.30 (1)      | 3.57  | K-H                       | 0 / 260       | 0.10 (3) |
| I-J    | 0 / 35                    | -127.4 -127.4             | 0.07 (1)      | 10.00 | R-S                       | -61 / 71      | 0.00 (1) |
|        |                           |                           |               |       | T-U                       | -313 / 0      | 0.00 (1) |
| B-R    | 0 / 1846                  | -28.0 -28.0               | 0.28 (1)      | 10.00 |                           |               |          |
| R-V    | 0 / 1846                  | -28.0 -28.0               | 0.80 (1)      | 10.00 |                           |               |          |
| V-Q    | 0 / 1846                  | -28.0 -28.0               | 0.80 (1)      | 10.00 |                           |               |          |
| Q-P    | 0 / 1866                  | -28.0 -28.0               | 0.28 (1)      | 10.00 |                           |               |          |
| P-O    | 0 / 3504                  | -28.0 -28.0               | 0.28 (1)      | 10.00 |                           |               |          |
| O-N    | 0 / 2813                  | -28.0 -28.0               | 0.32 (1)      | 10.00 |                           |               |          |
| N-M    | 0 / 3913                  | -28.0 -28.0               | 0.32 (1)      | 10.00 |                           |               |          |
| M-L    | 0 / 3318                  | -28.0 -28.0               | 0.27 (1)      | 10.00 |                           |               |          |
| L-K    | 0 / 1512                  | -28.0 -28.0               | 0.14 (1)      | 10.00 |                           |               |          |
| K-T    | 0 / 1507                  | -28.0 -28.0               | 0.17 (1)      | 10.00 |                           |               |          |
| T-I    | 0 / 1607                  | -28.0 -28.0               | 0.17 (1)      | 10.00 |                           |               |          |

| FACTORED CONCENTRATED LOADS (LBS) |       |       |       |      |
|-----------------------------------|-------|-------|-------|------|
| JT                                | LOC.  | LC1   | MAX.  | MAX+ |
| Q                                 | 3-1-7 | -44   | -49   |      |
| G                                 | 3-1-7 | -105  | -105  |      |
| V                                 | 1-5-8 | -1184 | -1184 |      |

| FACE  | DIR. | TYPE  |
|-------|------|-------|
| FRONT | VERT | DEAD  |
| FRONT | VERT | SNOW  |
| BACK  | VERT | TOTAL |

**DESIGN CRITERIA**

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

**SPECIFIED LOADS:**  
 TOP CH. LL = 30.0 PSF  
 DL = 15.0 PSF  
 BOT CH. LL = 10.5 PSF  
 DL = 7.0 PSF  
 TOTAL LOAD = 62.5 PSF

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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

\*\*\* NON STANDARD GIRDER \*\*\*  
 ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

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

(55 % OF 38.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD.

ALLOWABLE DEFL. (LL) = L/360 (0.83")  
 CALCULATED VERT. DEFL. (LL) = L/999 (0.11")  
 ALLOWABLE DEFL. (TL) = L/360 (0.83")  
 CALCULATED VERT. DEFL. (TL) = L/999 (0.21")

CS1: TC=0.54/1.00 (C-S-1), BC=0.60/1.00 (C-R-1), WB=0.54/1.00 (H-L-1), SS=0.59/1.00 (C-R-1)

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

COMPANION LIVE LOAD FACTOR = 0.50  
 FLAT ROOF FACTOR = 0.75

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

| NAIL VALUES |           |       |         |                |
|-------------|-----------|-------|---------|----------------|
| PLATE       | GRIP(DRY) | SHEAR | SECTION |                |
| (F8)        | (PL)      | (PL)  |         |                |
| MT20        | 618       | 354   | 1657    | 822 2284 1658  |
| MT18        | 473       | 278   | 2841    | 1245 4454 1658 |

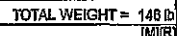
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.78 (B) (INPUT = 0.90)  
 JSI METAL = 0.86 (I) (INPUT = 1.00)

DRWG NO. TAM 1238  
 STRUCTURAL  
 COMPONENT ONLY





CONTINUED ON PAGE 2

|                    |                    |               |          |                          |          |
|--------------------|--------------------|---------------|----------|--------------------------|----------|
| JOB NAME<br>292720 | TRUSS NAME<br>T1Z3 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
|--------------------|--------------------|---------------|----------|--------------------------|----------|

Tamersack Roof Truss, Burlington

Version 8.200 S Jan 6 2018 MITek Industries, Inc. Mon Mar 5 15:38:21 2018 Page 2  
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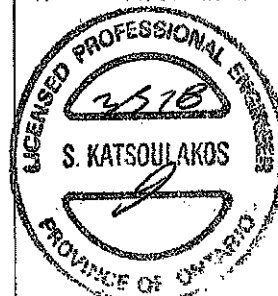
# LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |       | WEBS                   |                           |                    |       |
|--------|---------------------------|---------------------------|-------|------------------------|---------------------------|--------------------|-------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1   | MAX. MEMB. FORCE (LBS) | MAX. FACTORED FORCE (LBS) | MAX. UNBRAC LENGTH | FR-TO |
| FR-TO  |                           | FROM                      | TO    |                        |                           |                    |       |
| AN-AO  | 0/1958                    | -28.0                     | -28.0 | 0.19 (1)               | 10.00                     |                    |       |
| AO-K   | 0/1958                    | -28.0                     | -28.0 | 0.19 (1)               | 10.00                     |                    |       |
| K-AP   | 0/1948                    | -28.0                     | -28.0 | 0.19 (1)               | 10.00                     |                    |       |
| AP-T   | 0/1948                    | -28.0                     | -28.0 | 0.19 (1)               | 10.00                     |                    |       |
| T-I    | 0/1948                    | -28.0                     | -28.0 | 0.19 (1)               | 10.00                     |                    |       |

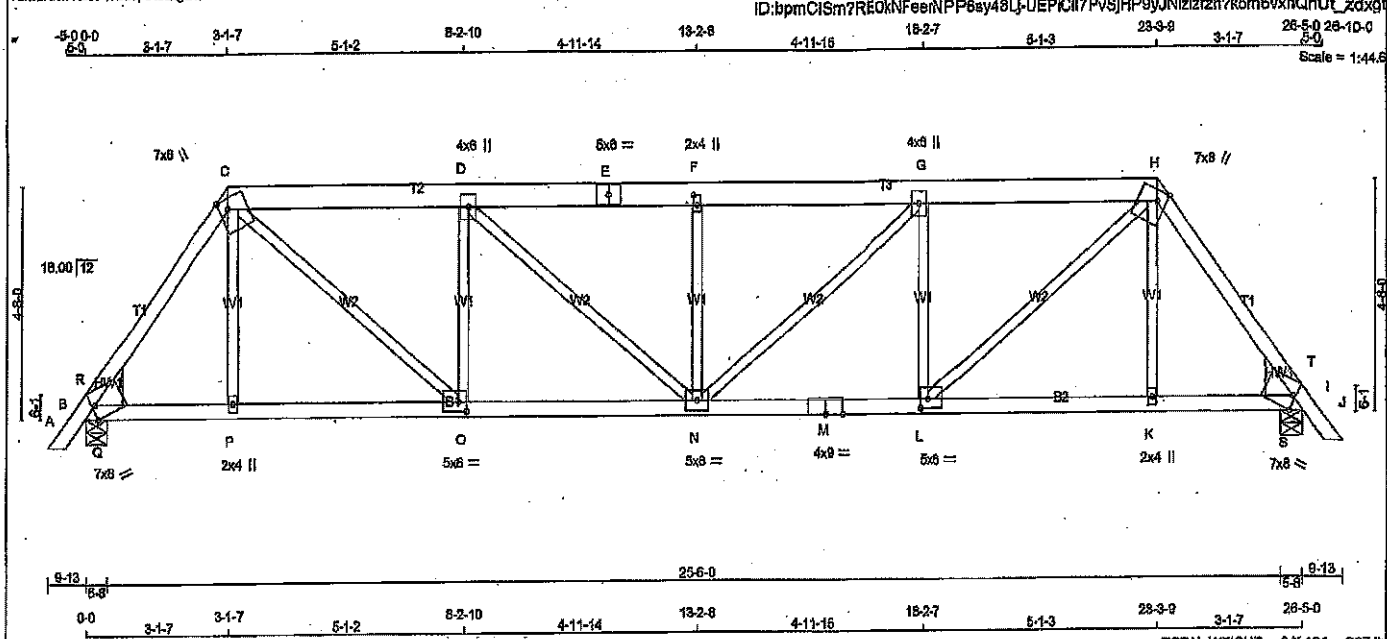
# FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX. | MAX* | FACE | DIR. | TYPE  |
|----|---------|------|------|------|------|------|-------|
| C  | 3-1-7   | -162 | -162 | ---  | BACK | VERT | TOTAL |
| F  | 16-8-12 | -40  | -40  | ---  | BACK | VERT | TOTAL |
| H  | 24-10-8 | -162 | -162 | ---  | BACK | VERT | TOTAL |
| K  | 24-8-12 | -48  | -48  | ---  | BACK | VERT | TOTAL |
| Q  | 3-2-4   | -48  | -48  | ---  | BACK | VERT | TOTAL |
| V  | 5-2-4   | -40  | -40  | ---  | BACK | VERT | TOTAL |
| W  | 7-2-4   | -40  | -40  | ---  | BACK | VERT | TOTAL |
| X  | 8-2-4   | -40  | -40  | ---  | BACK | VERT | TOTAL |
| Y  | 11-2-4  | -40  | -40  | ---  | BACK | VERT | TOTAL |
| Z  | 13-2-4  | -40  | -40  | ---  | BACK | VERT | TOTAL |
| AA | 14-8-12 | -40  | -40  | ---  | BACK | VERT | TOTAL |
| AB | 18-8-12 | -40  | -40  | ---  | BACK | VERT | TOTAL |
| AC | 20-8-12 | -40  | -40  | ---  | BACK | VERT | TOTAL |
| AD | 22-8-12 | -40  | -40  | ---  | BACK | VERT | TOTAL |
| AE | 1-11-4  | -28  | -28  | ---  | BACK | VERT | TOTAL |
| AF | 5-2-4   | -48  | -48  | ---  | BACK | VERT | TOTAL |
| AG | 7-2-4   | -48  | -48  | ---  | BACK | VERT | TOTAL |
| AH | 8-2-4   | -48  | -48  | ---  | BACK | VERT | TOTAL |
| AI | 11-2-4  | -48  | -48  | ---  | BACK | VERT | TOTAL |
| AJ | 13-2-4  | -48  | -48  | ---  | BACK | VERT | TOTAL |
| AK | 14-8-12 | -48  | -48  | ---  | BACK | VERT | TOTAL |
| AL | 18-8-12 | -48  | -48  | ---  | BACK | VERT | TOTAL |
| AM | 18-8-12 | -48  | -48  | ---  | BACK | VERT | TOTAL |
| AN | 20-8-12 | -48  | -48  | ---  | BACK | VERT | TOTAL |
| AO | 22-8-12 | -48  | -48  | ---  | BACK | VERT | TOTAL |
| AP | 26-0-12 | -28  | -28  | ---  | BACK | VERT | TOTAL |



DWG NO. TAM 12139  
STRUCTURAL  
COMPONENT ONLY

Tamarack Roof Truss, Burlington



**LUMBER**

| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER | DESCR. |
|-----------------------|--------|------|--------|--------|
| A - C                 | 2x4    | DRY  | No.2   | SPF    |
| C - E                 | 2x6    | DRY  | No.2   | SPF    |
| E - H                 | 2x6    | DRY  | No.2   | SPF    |
| H - J                 | 2x4    | DRY  | No.2   | SPF    |
| S - M                 | 2x4    | DRY  | No.2   | SPF    |
| M - I                 | 2x4    | DRY  | No.2   | SPF    |
| ALL WEBS              | 2x3    | DRY  | No.2   | SPF    |
| DRY: SEASONED LUMBER. |        |      |        |        |

**PLATES (table is in inches)**

| JT TYPE | PLATES  | W    | LEN | Y   | X         |
|---------|---------|------|-----|-----|-----------|
| B       | TMBH1-m | MT20 | 7.0 | 8.0 | Edge 0.75 |
| C       | TTWW+m  | MT20 | 7.0 | 8.0 | 2.50 2.25 |
| D       | TMMW+t  | MT20 | 4.0 | 6.0 |           |
| E       | TS-4    | MT20 | 5.0 | 6.0 |           |
| F       | TMMW+w  | MT20 | 2.0 | 4.0 | 2.50 1.00 |
| G       | TMMW+t  | MT20 | 4.0 | 6.0 |           |
| H       | TTWW+m  | MT20 | 7.0 | 8.0 | 2.50 2.25 |
| I       | TMBH1-m | MT20 | 7.0 | 8.0 | Edge 0.75 |
| K       | BMW+w   | MT20 | 2.0 | 4.0 |           |
| L       | BMWW-t  | MT20 | 5.0 | 6.0 | 2.25 2.00 |
| M       | BS-4    | MT20 | 4.0 | 6.0 |           |
| N       | BMWWW-t | MT20 | 5.0 | 6.0 |           |
| O       | BMWW-t  | MT20 | 5.0 | 6.0 | 2.25 2.00 |
| P       | BMWW+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**

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING.

|    | FACTORED       |      | MAXIMUM FACTORED |      | INPUT  |       | REQD  |        |
|----|----------------|------|------------------|------|--------|-------|-------|--------|
|    | GROSS REACTION |      | GROSS REACTION   |      | BRG    |       | BRG   | HEEL   |
| JT | VERT           | HORZ | DOWN             | HORZ | UPLIFT | IN-SX | IN-SX | WEDGE  |
| B  | 2142           | 0    | 2142             | 0    | 0      | 5-8   | 5-8   | 2x10 L |
| I  | 2142           | 0    | 2142             | 0    | 0      | 5-8   | 5-8   | 2x10 R |

| UNFACTORED REACTIONS |          |                               |       |           |      |       |      |
|----------------------|----------|-------------------------------|-------|-----------|------|-------|------|
| 1ST LCASE            |          | MAX. MIN. COMPONENT REACTIONS |       |           |      |       |      |
| JT                   | COMBINED | SNOW                          | LIVE  | PERM.LIVE | WIND | DEAD  | SOIL |
| B                    | 1713     | 834/0                         | 277/0 | 0/0       | 0/0  | 602/0 | 0/0  |
| I                    | 1713     | 834/0                         | 277/0 | 0/0       | 0/0  | 602/0 | 0/0  |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.89 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                                 |                                 |                 | WEBS           |       |                                 |                 |
|--------|---------------------------------|---------------------------------|-----------------|----------------|-------|---------------------------------|-----------------|
| MEMB.  | MAX. FACTORED<br>FORCE<br>(LBS) | FACTORED<br>VERT. LOAD<br>(PLF) | MAX<br>CS1 (LC) | MAX.<br>UNBRAC | MEMB. | MAX. FACTORED<br>FORCE<br>(LBS) | MAX<br>CS1 (LC) |
| FR-TO  |                                 | FROM TO                         |                 | LENGTH         | FR-TO |                                 |                 |
| A-B    | 0 / 34                          | -127.4                          | -127.4 0.08 (1) | 10.00          | P-C   | 0 / 215                         | 0.08 (3)        |
| B-R    | -2380 / 0                       | -127.4                          | -127.4 0.28 (1) | 3.89           | C-O   | 0 / 1699                        | 0.67 (1)        |
| R-C    | -2245 / 0                       | -127.4                          | -127.4 0.31 (1) | 3.79           | O-D   | -1081 / 0                       | 0.43 (1)        |
| C-D    | -2784 / 0                       | -127.4                          | -127.4 0.34 (1) | 4.16           | D-N   | 0 / 561                         | 0.17 (1)        |
| D-E    | -3210 / 0                       | -127.4                          | -127.4 0.36 (1) | 3.89           | N-F   | -595 / 0                        | 0.24 (1)        |
| E-F    | -3210 / 0                       | -127.4                          | -127.4 0.36 (1) | 3.89           | F-G   | 0 / 561                         | 0.17 (1)        |
| F-G    | -3210 / 0                       | -127.4                          | -127.4 0.36 (1) | 3.89           | G-H   | -1081 / 0                       | 0.43 (1)        |
| G-H    | -2784 / 0                       | -127.4                          | -127.4 0.34 (1) | 4.16           | H-I   | 0 / 1588                        | 0.57 (1)        |
| H-I    | -2245 / 0                       | -127.4                          | -127.4 0.31 (1) | 3.79           | K-H   | 0 / 215                         | 0.08 (3)        |
| I-J    | -2380 / 0                       | -127.4                          | -127.4 0.28 (1) | 3.89           | Q-R   | -51 / 97                        | 0.00 (1)        |
| J-K    | 0 / 34                          | -127.4                          | -127.4 0.08 (1) | 10.00          | S-T   | -51 / 97                        | 0.00 (1)        |
|        |                                 |                                 |                 |                |       |                                 |                 |
| B-Q    | 0 / 1328                        | -28.0                           | -28.0 0.33 (1)  | 10.00          |       |                                 |                 |
| Q-P    | 0 / 1328                        | -28.0                           | -28.0 0.36 (1)  | 10.00          |       |                                 |                 |
| P-O    | 0 / 1332                        | -28.0                           | -28.0 0.42 (3)  | 10.00          |       |                                 |                 |
| O-N    | 0 / 2764                        | -28.0                           | -28.0 0.66 (1)  | 10.00          |       |                                 |                 |
| N-M    | 0 / 2764                        | -28.0                           | -28.0 0.66 (1)  | 10.00          |       |                                 |                 |
| M-L    | 0 / 2764                        | -28.0                           | -28.0 0.66 (1)  | 10.00          |       |                                 |                 |
| L-K    | 0 / 1332                        | -28.0                           | -28.0 0.42 (3)  | 10.00          |       |                                 |                 |
| K-S    | 0 / 1328                        | -28.0                           | -28.0 0.36 (1)  | 10.00          |       |                                 |                 |
| S-I    | 0 / 1328                        | -28.0                           | -28.0 0.33 (1)  | 10.00          |       |                                 |                 |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 20.0 PSF  
DL = 15.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 62.5 PSF

**SPACING = 24.0 IN. GIG**

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

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

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

(55% OF 80.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.88")  
CALCULATED VERT. DEFL. (LL) = L/899 (0.11")  
ALLOWABLE DEFL. (TL) = L/360 (0.88")  
CALCULATED VERT. DEFL. (TL) = L/899 (0.20")

CSI: TC=0.38/1.00 (F-G-1), BC=0.68/1.00 (N-O-1).  
WB=0.57/1.00 (H-L-1), SSI=0.31/1.00 (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 = 0.50  
FLAT ROOF FACTOR = 0.75

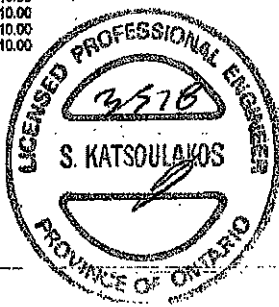
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1887 622 2284 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SSI GRIP= 0.90 (O) (INPUT = 0.80)  
SSI METAL= 0.75 (M) (INPUT = 1.00)



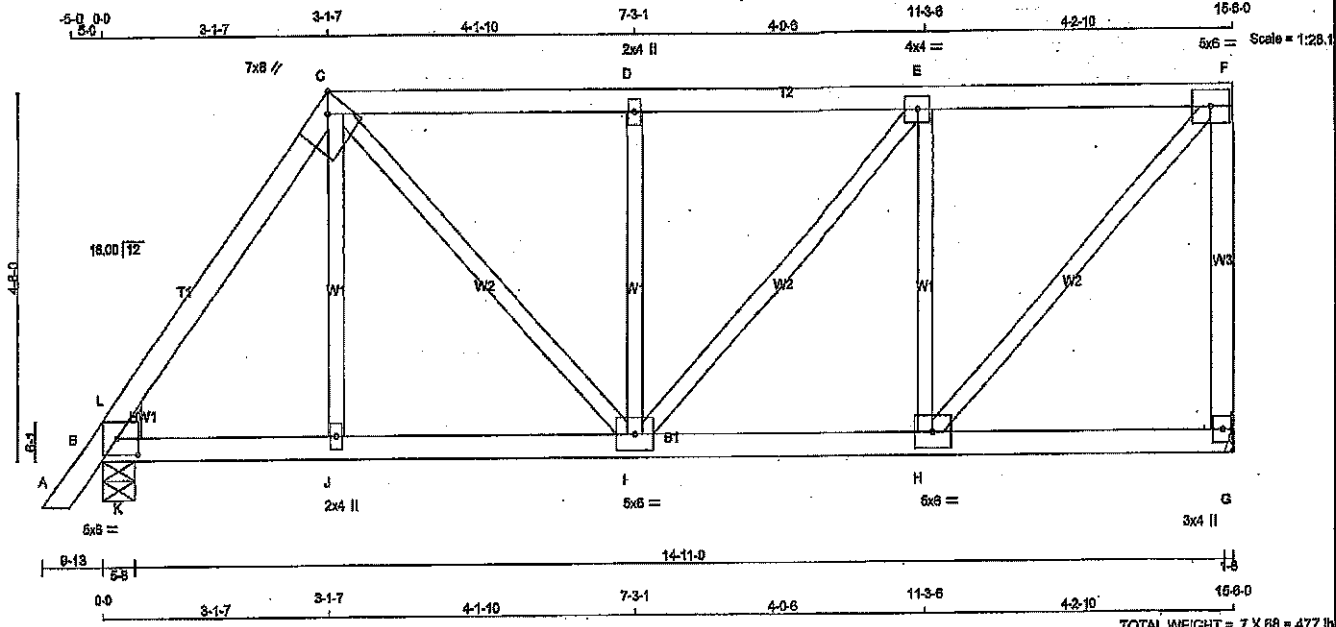
DRWG NO. TAM 12140-08  
STRUCTURAL  
COMPONENT ONLY

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 292720   | T8         | 7        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

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| LUMBER                | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|-----------------------|-------------------|--------|------|--------|--------|
| A - C                 | 2x4               | DRY    | No.2 | SPF    |        |
| C - F                 | 2x4               | DRY    | No.2 | SPF    |        |
| G - F                 | 2x4               | DRY    | No.2 | SPF    |        |
| B - G                 | 2x4               | DRY    | No.2 | SPF    |        |
| ALL WEBS              | 2x3               | DRY    | No.2 | SPF    |        |
| DRY: SEASONED LUMBER. |                   |        |      |        |        |

| PLATES (table in inches) | JT TYPE | PLATES | W   | LEN | Y    | X    |
|--------------------------|---------|--------|-----|-----|------|------|
| B                        | TMH1-H  | MT20   | 5.0 | 8.0 | 2.50 | 3.50 |
| C                        | TTWV-H  | MT20   | 7.0 | 8.0 | Edge | 2.75 |
| D                        | TMWV-W  | MT20   | 2.0 | 4.0 |      |      |
| E                        | TMWV-W  | MT20   | 4.0 | 4.0 |      |      |
| F                        | TMWV-W  | MT20   | 6.0 | 6.0 |      |      |
| G                        | BMV1-P  | MT20   | 3.0 | 4.0 |      |      |
| H                        | BMWV-W  | MT20   | 5.0 | 8.0 |      |      |
| I                        | BMWV-W  | MT20   | 5.0 | 8.0 |      |      |
| J                        | BMWV-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  
PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG | HEEL WEDGE |
|----------|-------------------------|---------------------------------|-----------|----------|------------|
| JT       | VERT                    | HORZ                            | DOWN      | HORZ     | UPLIFT     |
| G        | 1204                    | 0                               | 1204      | 0        | 0          |
| B        | 1294                    | 0                               | 1294      | 0        | 0          |

UNFACTORED REACTIONS

| 1ST LOASE | MAX MIN. COMPONENT REACTIONS |
|-----------|------------------------------|
| JT        | COMBINED                     |
| G         | 958                          |
| B         | 1031                         |

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.85 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 | MAX. FACTORED | FACTORED       | WEBS             | MAX. FACTORED |
|--------|---------------|----------------|------------------|---------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD LC1 | MAX. MAX. UNBRAC | FORCE MAX     |
| FR-TO  |               | FROM TO        | LENGTH FR-TO     | CSI (LC)      |
| A-B    | 0/34          | -127.4         | -127.4           | 0.05 (1)      |
| B-L    | -1202/0       | -127.4         | -127.4           | 0.15 (1)      |
| L-C    | -1202/0       | -127.4         | -127.4           | 0.21 (1)      |
| C-D    | -1111/0       | -127.4         | -127.4           | 0.40 (1)      |
| D-E    | -1112/0       | -127.4         | -127.4           | 0.42 (1)      |
| E-F    | -903/0        | -127.4         | -127.4           | 0.41 (1)      |
| G-F    | -1158/0       | 0.0            | 0.0              | 0.54 (1)      |
| B-K    | 0/703         | -28.0          | -28.0            | 0.26 (1)      |
| K-J    | 0/703         | -28.0          | -28.0            | 0.28 (1)      |
| J-I    | 0/707         | -28.0          | -28.0            | 0.24 (1)      |
| I-H    | 0/803         | -28.0          | -28.0            | 0.31 (3)      |
| H-G    | 0/0           | -28.0          | -28.0            | 0.18 (3)      |

DESIGN CRITERIA

SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 30.0 PSF |
| DL         | = 16.0 PSF |
| BOT CH. LL | = 10.5 PSF |
| DL         | = 7.0 PSF  |
| TOTAL LOAD | = 62.5 PSF |

SPACING = 24.0 IN. GIG

LOADING IN PLAT SECTION BASED ON A SLOPE OF 0.00/12

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2012, CBC 2012, ABC 2014  
- CSA C88-09  
- TRC 2011

(35 % OF 39.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) =  $L/360$  (0.52")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.03")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.52")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.05")

CSI: TC=0.54/1.00 (F-G:1), BC=0.31/1.00 (H-I:3), WB=0.39/1.00 (F-H:1), SS=0.33/1.00 (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 = 0.50  
FLAT ROOF FACTOR = 0.75

AUTOSOLVE LEFT 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)     |
|       | MAX MIN   | MAX MIN  | MAX MIN   |
| MT20  | 618 354   | 1867 822 | 2284 1658 |

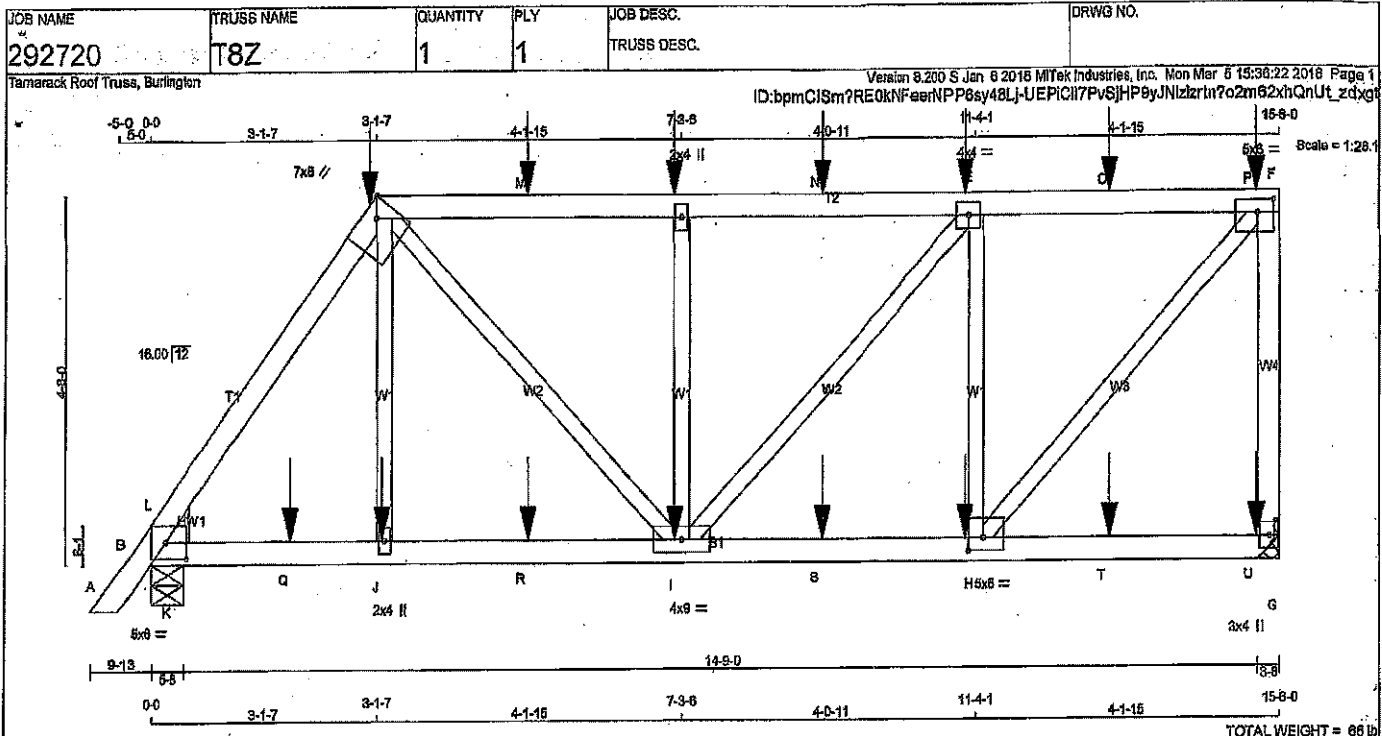
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.80 (F) (INPUT = 0.80)  
JSI METAL= 0.32 (B) (INPUT = 1.00)



DRWG NO. TAM 1241-08  
STRUCTURAL  
COMPONENT ONLY



**LUMBER**

N.L.G.A. RULES

| CHORDS                | SIZE | DRY | LUMBER | DESCR. |
|-----------------------|------|-----|--------|--------|
| A - C                 | 2x4  | DRY | No.2   | SPF    |
| C - F                 | 2x4  | DRY | No.2   | SPF    |
| G - F                 | 2x4  | DRY | No.2   | SPF    |
| B - G                 | 2x4  | DRY | No.2   | SPF    |
| ALL WEBS              | 2x3  | DRY | No.2   | SPF    |
| DRY: SEASONED LUMBER. |      |     |        |        |

**PLATES (table is in inches)**

| PLATE | TYPE    | W    | LEN | Y   | X          |
|-------|---------|------|-----|-----|------------|
| B     | TMBH1-H | MT20 | 6.0 | 6.0 | 2.50 3.50  |
| C     | TTWWH-H | MT20 | 7.0 | 8.0 | Edges 2.75 |
| D     | TMBW-W  | MT20 | 2.0 | 4.0 |            |
| E     | TMBW-W  | MT20 | 4.0 | 4.0 |            |
| F     | TMBW-W  | MT20 | 5.0 | 6.0 | 2.00 2.50  |
| G     | BMV1+P  | MT20 | 3.0 | 4.0 |            |
| H     | BMVW-W  | MT20 | 5.0 | 6.0 | 2.00 2.50  |
| I     | BMVW-W  | MT20 | 4.0 | 6.0 |            |
| J     | BMVW-W  | MT20 | 2.0 | 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) 162.8 lbs FACTORED DOWN AT 3-1-7, 38.7 lbs FACTORED DOWN AT 5-2-4, 39.7 lbs FACTORED DOWN AT 7-2-4, 39.7 lbs FACTORED DOWN AT 9-2-4, 39.7 lbs FACTORED DOWN AT 11-2-4, AND 38.7 lbs FACTORED DOWN AT 13-2-4, AND 63.5 lbs FACTORED DOWN AT 15-2-4 ON TOP CHORD, AND 28.4 lbs FACTORED DOWN AT 1-11-4, 47.7 lbs FACTORED DOWN AT 3-2-4, 47.7 lbs FACTORED DOWN AT 5-2-4, 47.7 lbs FACTORED DOWN AT 7-2-4, 47.7 lbs FACTORED DOWN AT 9-2-4, 47.7 lbs FACTORED DOWN AT 11-2-4, AND 47.7 lbs FACTORED DOWN AT 13-2-4, AND 63.5 lbs FACTORED DOWN AT 15-2-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

**PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING**

**BEARINGS**

| JT | FACTORED GROSS REACTION |         | MAXIMUM FACTORED GROSS REACTION |       | INPUT BRG IN-SX | REQD BRG IN-SX | HEEL WEDGE |
|----|-------------------------|---------|---------------------------------|-------|-----------------|----------------|------------|
|    | VERT                    | HORZ    | DOWN                            | HORZ  |                 |                |            |
| G  | 1325                    | 633 / 0 | 222 / 0                         | 0 / 0 | 0 / 0           | 471 / 0        | 0 / 0      |
| B  | 1330                    | 639 / 0 | 209 / 0                         | 0 / 0 | 0 / 0           | 482 / 0        | 0 / 0      |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED |         | MAX / MIN. COMPONENT REACTIONS |            | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|--------------------|---------|--------------------------------|------------|------------|-------|---------|-------|
|    | GROSS              | SNOW    | LIVE                           | PERM. LIVE |            |       |         |       |
| G  | 1325               | 633 / 0 | 222 / 0                        | 0 / 0      | 0 / 0      | 0 / 0 | 471 / 0 | 0 / 0 |
| B  | 1330               | 639 / 0 | 209 / 0                        | 0 / 0      | 0 / 0      | 0 / 0 | 482 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.09 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           |             | FACTORED         |               | WEBS             |               | MAX. FACTORED    |               |
|-------|------------------|-------------|------------------|---------------|------------------|---------------|------------------|---------------|
|       | MAX. FORCE (LBS) | FORCE (LBS) | VERT. LOAD (LBS) | MAX. CS (LBS) | MAX. FORCE (LBS) | MAX. CS (LBS) | MAX. FORCE (LBS) | MAX. CS (LBS) |
| FR-TO |                  |             |                  |               |                  |               |                  |               |
| A-B   | 0 / 134          | -127.4      | -127.4           | 0.07 (1)      | 10.00            | J-C           | 0 / 275          | 0.10 (3)      |
| B-L   | -1703 / 0        | -127.4      | -127.4           | 0.22 (1)      | 4.30             | C-I           | 0 / 713          | 0.24 (1)      |
| L-C   | -1648 / 0        | -127.4      | -127.4           | 0.27 (1)      | 4.33             | I-D           | -837 / 0         | 0.28 (1)      |
| C-M   | -1486 / 0        | -127.4      | -127.4           | 0.52 (1)      | 4.14             | I-E           | 0 / 434          | 0.14 (1)      |
| M-D   | -1486 / 0        | -127.4      | -127.4           | 0.82 (1)      | 4.14             | H-E           | -889 / 0         | 0.44 (1)      |
| D-N   | -1486 / 0        | -127.4      | -127.4           | 0.95 (1)      | 4.09             | H-F           | 0 / 1699         | 0.55 (1)      |
| N-E   | -1486 / 0        | -127.4      | -127.4           | 0.95 (1)      | 4.09             | K-L           | -124 / 169       | 0.00 (1)      |
| E-O   | -1171 / 0        | -127.4      | -127.4           | 0.82 (1)      | 4.53             |               |                  |               |
| O-P   | -1171 / 0        | -127.4      | -127.4           | 0.82 (1)      | 4.53             |               |                  |               |
| P-F   | -1171 / 0        | -127.4      | -127.4           | 0.82 (1)      | 4.53             |               |                  |               |
| G-F   | -1535 / 0        | 0.0         | 0.0              | 0.74 (1)      | 5.86             |               |                  |               |

| MEMB. | CHORDS           |             | FACTORED         |               | WEBS             |               | MAX. FACTORED    |               |
|-------|------------------|-------------|------------------|---------------|------------------|---------------|------------------|---------------|
|       | MAX. FORCE (LBS) | FORCE (LBS) | VERT. LOAD (LBS) | MAX. CS (LBS) | MAX. FORCE (LBS) | MAX. CS (LBS) | MAX. FORCE (LBS) | MAX. CS (LBS) |
| FR-TO |                  |             |                  |               |                  |               |                  |               |
| B-K   | 0 / 987          | -28.0       | -28.0            | 0.32 (1)      | 10.00            |               |                  |               |
| K-Q   | 0 / 987          | -28.0       | -28.0            | 0.35 (1)      | 10.00            |               |                  |               |
| Q-J   | 0 / 987          | -28.0       | -28.0            | 0.35 (1)      | 10.00            |               |                  |               |
| J-R   | 0 / 972          | -28.0       | -28.0            | 0.38 (1)      | 10.00            |               |                  |               |
| R-I   | 0 / 972          | -28.0       | -28.0            | 0.35 (1)      | 10.00            |               |                  |               |
| I-S   | 0 / 1171         | -28.0       | -28.0            | 0.43 (3)      | 10.00            |               |                  |               |
| S-H   | 0 / 1171         | -28.0       | -28.0            | 0.43 (3)      | 10.00            |               |                  |               |
| H-T   | 0 / 0            | -28.0       | -28.0            | 0.25 (3)      | 10.00            |               |                  |               |
| T-U   | 0 / 0            | -28.0       | -28.0            | 0.25 (3)      | 10.00            |               |                  |               |
| U-G   | 0 / 0            | -28.0       | -28.0            | 0.25 (3)      | 10.00            |               |                  |               |

**FACTORED CONCENTRATED LOADS (LBS)**

| LOC. | FACTORED |      | MAX. |      | FACE  | DIR. | TYPE  |
|------|----------|------|------|------|-------|------|-------|
|      | LOC.     | MAX. | MAX. | MAX. |       |      |       |
| JT   | 3-1-7    | -162 | -162 | ---  | FRONT | VERT | TOTAL |
| C    | 7-2-4    | -40  | -40  | ---  | FRONT | VERT | TOTAL |
| D    | 11-2-4   | -40  | -40  | ---  | FRONT | VERT | TOTAL |
| E    | 11-2-4   | -48  | -48  | ---  | FRONT | VERT | TOTAL |
| H    | 7-2-4    | -48  | -48  | ---  | FRONT | VERT | TOTAL |
| I    | 3-2-4    | -48  | -48  | ---  | FRONT | VERT | TOTAL |
| J    | 5-2-4    | -40  | -40  | ---  | FRONT | VERT | TOTAL |
| M    | 9-2-4    | -40  | -40  | ---  | FRONT | VERT | TOTAL |
| N    | 13-2-4   | -40  | -40  | ---  | FRONT | VERT | TOTAL |
| O    | 15-2-4   | -84  | -84  | ---  | FRONT | VERT | TOTAL |
| P    | 1-11-4   | -28  | -28  | ---  | FRONT | VERT | TOTAL |
| Q    | 5-2-4    | -48  | -48  | ---  | FRONT | VERT | TOTAL |
| R    | 9-2-4    | -48  | -48  | ---  | FRONT | VERT | TOTAL |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

| TOP CH.    | LL   | PSF |
|------------|------|-----|
| DL         | 15.0 | PSF |
| BOT CH.    | LL   | PSF |
| DL         | 10.5 | PSF |
| DL         | 7.0  | PSF |
| TOTAL LOAD | 62.5 | PSF |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA C86-09  
- TPIC 2011

(55 % OF 39.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.52")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL) = L/360 (0.52")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TO=0.74/1.00 (F-G-1), BC=0.43/1.00 (H-I-3), WS=0.58/1.00 (F-H-1), SSI=0.40/1.00 (E-F-1)

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

COMPANION LIVE LOAD FACTOR = 0.60  
FLAT ROOF FACTOR = 0.75

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN  
MT20 618 354 1687 622 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (H) (INPUT = 0.80)  
JSI METAL= 0.43 (B) (INPUT = 1.00)

DRWG NO. TAM 12142-08  
STRUCTURAL  
COMPONENT ONLY

CONTINUED ON PAGE 2

|          |            |          |     |             |          |
|----------|------------|----------|-----|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 292720   | T8Z        | 1        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

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| FACTORED CONCENTRATED LOADS (LBS) |        |     |      |      |       |       |
|-----------------------------------|--------|-----|------|------|-------|-------|
| JT                                | LOC.   | LC1 | MAX- | MAX+ | FACE  | DIR.  |
| T                                 | 13-2-4 | -48 | -48  | —    | FRONT | VERT  |
| U                                 | 16-2-4 | -57 | -57  | —    | FRONT | VERT  |
|                                   |        |     |      |      |       | TOTAL |



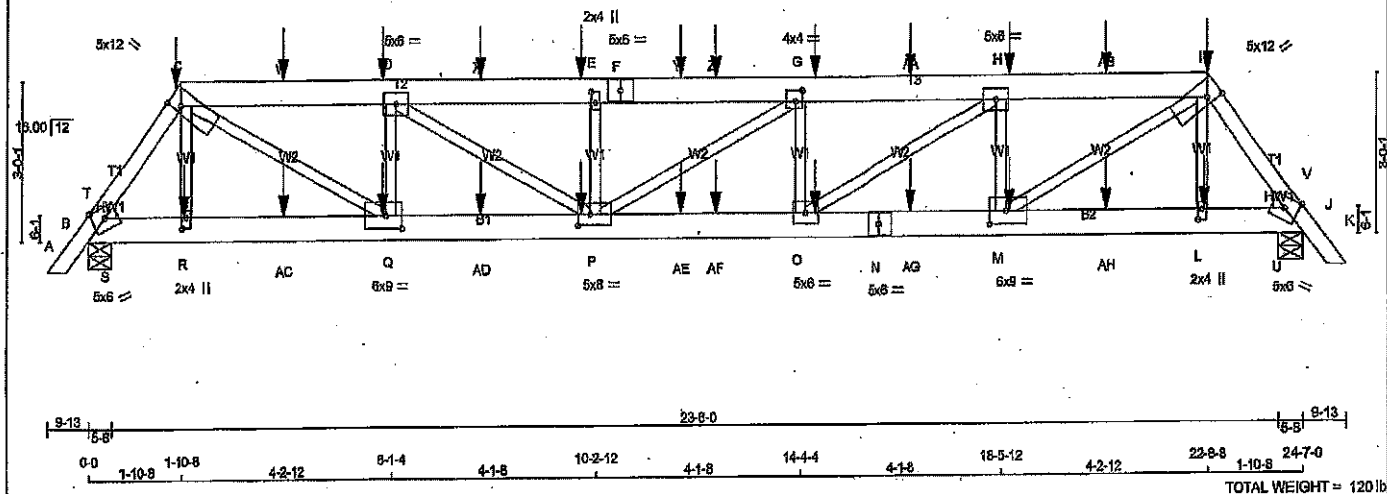
DWG NO. T8Z  
STRUCTURAL  
COMPONENT ONLY

|                           |                         |                      |                 |                          |          |
|---------------------------|-------------------------|----------------------|-----------------|--------------------------|----------|
| JOB NAME<br><b>292720</b> | TRUSS NAME<br><b>T9</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
|---------------------------|-------------------------|----------------------|-----------------|--------------------------|----------|

Tamarack Roof Truss, Burlington

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ID: bpmCISm?RE0kNFeerNPP6sy48Lj-yRz4Q5HACaavZk84GCFB06pP8H4UH4w4X2PQzdxgs

5-00-0 1-10-8 1-10-8 4-2-12 6-1-4 4-1-8 10-2-12 4-1-8 14-4-4 4-1-8 18-5-12 4-2-12 22-8-8 1-10-8 24-7-0 25-0-0  
Scale = 1:11.7



| LUMBER                | N. L. G. A. RULES | CHORDS | SIZE       | DRY | LUMBER | DESCR. |
|-----------------------|-------------------|--------|------------|-----|--------|--------|
| A - C                 | 2x4               | DRY    | No.2       | SPF |        |        |
| C - F                 | 2x8               | DRY    | No.2       | SPF |        |        |
| F - I                 | 2x8               | DRY    | No.2       | SPF |        |        |
| I - K                 | 2x4               | DRY    | No.2       | SPF |        |        |
| B - N                 | 2x8               | DRY    | 2100F 1.8E | SPF |        |        |
| N - J                 | 2x8               | DRY    | 2100F 1.8E | SPF |        |        |
| ALL WEBS              | 2x3               | DRY    | No.2       | SPF |        |        |
| DRY: SEASONED LUMBER. |                   |        |            |     |        |        |

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

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING

BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG | HEEL   |
|----|-------------------------|---------------------------------|-----------|----------|--------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     | UPLIFT |
| B  | 2146                    | 0                               | 2146      | 0        | 0      |
| J  | 2146                    | 0                               | 2146      | 0        | 0      |

UNFACTORED REACTIONS

|    | 1ST CASE | MAX. MIN. LIVE | PERM. LIVE | WIND       | DEAD    | SOIL  |
|----|----------|----------------|------------|------------|---------|-------|
| JT | COMBINED | SNOW           | LIVE       | PERM. LIVE | WIND    | DEAD  |
| B  | 1710     | 848 / 0        | 272 / 0    | 0 / 0      | 590 / 0 | 0 / 0 |
| J  | 1710     | 848 / 0        | 272 / 0    | 0 / 0      | 590 / 0 | 0 / 0 |

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.09 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 | MAX. FACTORED | FACTORED         | FACTORED | WEBS  | MAX. FACTORED |
|--------|---------------|------------------|----------|-------|---------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD (LBS) | CS (LC)  | MEMB. | FORCE (LBS)   |
| FR-TO  | 0 / 35        | -127.4           | -127.4   | R-C   | 0 / 248       |
| A-B    | -2458 / 0     | -127.4           | -127.4   | L-I   | 0 / 239       |
| B-T    | -2458 / 0     | -127.4           | -127.4   | M-I   | 0 / 288       |
| T-C    | -2458 / 0     | -127.4           | -127.4   | C-Q   | 0 / 287       |
| C-W    | -3749 / 0     | -127.4           | -127.4   | M-H   | -1282 / 0     |
| W-D    | -3749 / 0     | -127.4           | -127.4   | Q-D   | -1253 / 0     |
| D-X    | -4858 / 0     | -127.4           | -127.4   | O-H   | 0 / 1310      |
| X-E    | -4858 / 0     | -127.4           | -127.4   | D-P   | 0 / 1278      |
| E-F    | -4858 / 0     | -127.4           | -127.4   | O-G   | -508 / 0      |
| F-Y    | -4858 / 0     | -127.4           | -127.4   | P-E   | -508 / 0      |
| Y-Z    | -4858 / 0     | -127.4           | -127.4   | P-G   | -28 / 0       |
| Z-G    | -4858 / 0     | -127.4           | -127.4   | S-T   | -94 / 0       |
| G-AA   | -4858 / 0     | -127.4           | -127.4   | U-V   | -94 / 0       |
| AA-H   | -4858 / 0     | -127.4           | -127.4   |       |               |
| H-B    | -3744 / 0     | -127.4           | -127.4   |       |               |
| B-I    | -3744 / 0     | -127.4           | -127.4   |       |               |
| I-V    | -2437 / 0     | -127.4           | -127.4   |       |               |
| V-J    | -2457 / 0     | -127.4           | -127.4   |       |               |
| J-K    | 0 / 35        | -127.4           | -127.4   |       |               |

DESIGN CRITERIA

SPECIFIED LOADS:

|               |               |
|---------------|---------------|
| TOP CH        | LL = 30.0 PSF |
| DL = 15.0 PSF |               |
| BOT CH        | LL = 10.5 PSF |
| DL = 7.0 PSF  |               |
| TOTAL LOAD    | = 62.5 PSF    |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 088-08  
- TPIC 2011

(65% OF 29.3 P.S.F. S.G.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/380 (0.82")  
CALCULATED VERT. DEFL. (LL) = L/989 (0.37")  
ALLOWABLE DEFL. (TL) = L/380 (0.82")  
CALCULATED VERT. DEFL. (TL) = L/947 (0.31")

CS: TC=0.48/1.00 (E-G-1), BC=0.43/1.00 (O-P-1),  
WB=0.68/1.00 (C-Q-1), SS=0.27/1.00 (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 = 0.50  
FLAT ROOF FACTOR = 0.75

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 616 354 1697 622 2284 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

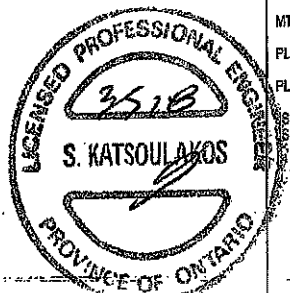
SI GRIP = 0.68 (Q) (INPUT = 0.90)  
SI METAL = 0.69 (V) (INPUT = 1.00)

| PLATES (table is in inches) | W    | LEN | Y    | X         |
|-----------------------------|------|-----|------|-----------|
| BT TMBH-m                   | MT20 | 5.0 | 6.0  | Edge      |
| CO TTWW+h                   | MT20 | 5.0 | 12.0 | 3.25 1.60 |
| CD TTWW+h                   | MT20 | 5.0 | 6.0  |           |
| TT TTWW+h                   | MT20 | 2.0 | 4.0  | 2.60 1.00 |
| TS4                         | MT20 | 5.0 | 6.0  |           |
| TH TTWW+h                   | MT20 | 4.0 | 4.0  | 2.50 1.75 |
| H TTWW+h                    | MT20 | 5.0 | 6.0  |           |
| I TTWW+h                    | MT20 | 5.0 | 12.0 | 3.25 1.60 |
| J TMBH-m                    | MT20 | 5.0 | 6.0  | Edge      |
| L BMWW+w                    | MT20 | 2.0 | 4.0  | 2.60 1.00 |
| M BMWW+w                    | MT20 | 6.0 | 9.0  | 3.00 4.00 |
| N BS-1                      | MT20 | 5.0 | 6.0  |           |
| O BMWW+w                    | MT20 | 5.0 | 6.0  |           |
| P BMWW+w                    | MT20 | 5.0 | 8.0  | 2.60 3.00 |
| Q BMWW+w                    | MT20 | 6.0 | 9.0  | 3.00 4.00 |
| R BMWW+w                    | MT20 | 2.0 | 4.0  | 2.50 1.00 |

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

HANGERS NOTES

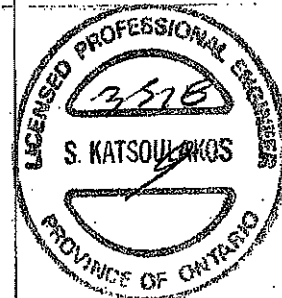
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 13.5 lbs FACTORED DOWN AT 1-11.4, 21.8 lbs FACTORED DOWN AT 3-11.4, 3.5 lbs FACTORED DOWN AT 5-11.4, 3.5 lbs FACTORED DOWN AT 7-11.4, 3.5 lbs FACTORED DOWN AT 9-11.4, 3.5 lbs FACTORED DOWN AT 11-11.4, 3.5 lbs FACTORED DOWN AT 12-7-12, 3.5 lbs FACTORED DOWN AT 14-7-12, 3.5 lbs FACTORED DOWN AT 16-7-12, 3.5 lbs FACTORED DOWN AT 18-7-12, AND 3.5 lbs FACTORED DOWN AT 20-7-12, AND 13.5 lbs FACTORED DOWN AT 22-8-8 ON TOP CHORD, AND 21.8 lbs FACTORED DOWN AT 1-11.4, 21.8 lbs FACTORED DOWN AT 3-11.4, 21.8 lbs FACTORED DOWN AT 5-11.4, 21.8 lbs FACTORED DOWN AT 7-11.4, 21.8 lbs FACTORED DOWN AT 9-11.4, 21.8 lbs FACTORED DOWN AT 11-11.4, 21.8 lbs FACTORED DOWN AT 12-7-12, 21.8 lbs FACTORED DOWN AT 14-7-12, 21.8 lbs FACTORED DOWN AT 16-7-12, 21.8 lbs FACTORED DOWN AT 18-7-12, AND 21.8 lbs FACTORED DOWN AT 20-7-12, AND 21.8 lbs FACTORED DOWN AT 22-7-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



DRWG NO. T9 1243-18  
STRUCTURAL  
COMPONENT ONLY

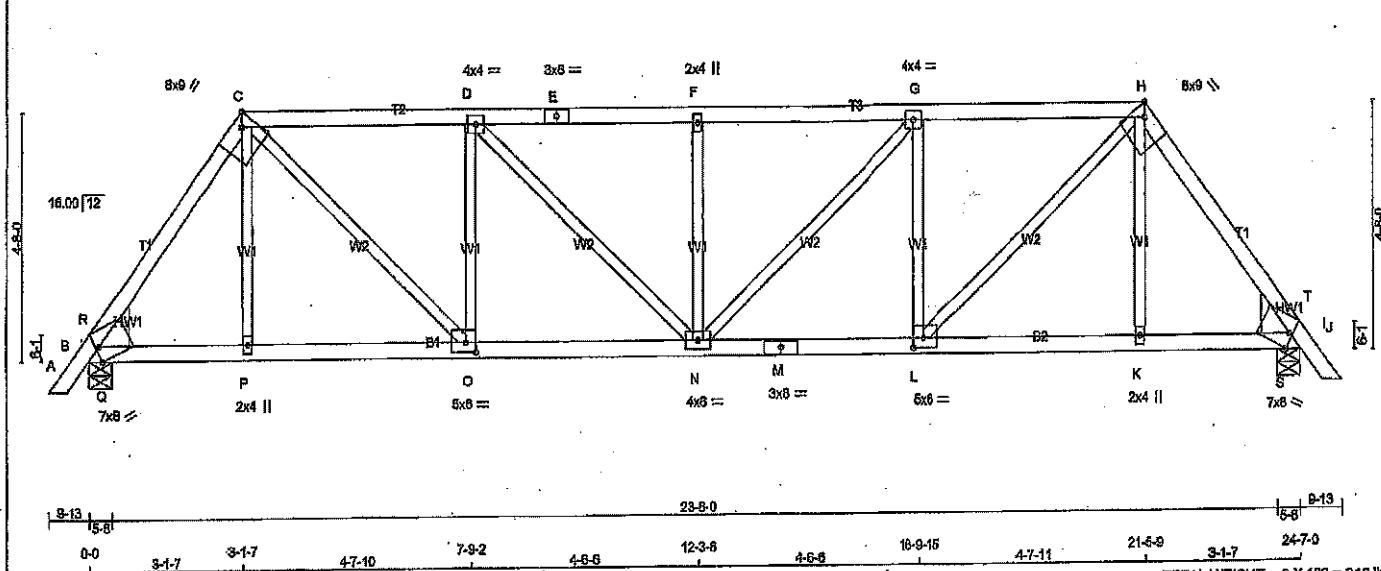
CONTINUED ON PAGE 2

| JOB NAME                                                                         | TRUSS NAME | QUANTITY | PLY  | JOB DESC.   | DRWG NO.         |
|----------------------------------------------------------------------------------|------------|----------|------|-------------|------------------|
| 292720                                                                           | T9         | 1        | 1    | TRUSS DESO. |                  |
| Tamarack Roof Truss, Burlington                                                  |            |          |      |             |                  |
| Version 8.200 8 Jan 6 2018 Mitek Industries, Inc. Mon Mar 5 15:36:23 2018 Page 2 |            |          |      |             |                  |
| ID:bpmCISm?RE0kNFserNPP6sy4BLJ-yRz4Q6IACaayZk9WGCFCBO6pP8HVUH4w4X2PQzdXgs        |            |          |      |             |                  |
| FACTORED CONCENTRATED LOADS (LBS)                                                |            |          |      |             |                  |
| JT                                                                               | LOC.       | LC1      | MAX- | MAX+        | FACE DIR. TYPE   |
| C                                                                                | 1-10-8     | -11      | -13  | ---         | FRONT VERT TOTAL |
| D                                                                                | 5-11-4     | -1       | -4   | ---         | FRONT VERT TOTAL |
| E                                                                                | 9-11-4     | -1       | -4   | ---         | FRONT VERT TOTAL |
| G                                                                                | 14-7-12    | -1       | -4   | ---         | FRONT VERT TOTAL |
| H                                                                                | 16-7-12    | -1       | -4   | ---         | FRONT VERT TOTAL |
| I                                                                                | 22-8-8     | -11      | -13  | ---         | FRONT VERT TOTAL |
| L                                                                                | 22-7-12    | -22      | -22  | ---         | FRONT VERT TOTAL |
| M                                                                                | 16-7-12    | -22      | -22  | ---         | FRONT VERT TOTAL |
| O                                                                                | 14-7-12    | -22      | -22  | ---         | FRONT VERT TOTAL |
| P                                                                                | 9-11-4     | -22      | -22  | ---         | FRONT VERT TOTAL |
| Q                                                                                | 5-11-4     | -22      | -22  | ---         | FRONT VERT TOTAL |
| R                                                                                | 1-11-4     | -22      | -22  | ---         | FRONT VERT TOTAL |
| W                                                                                | 3-11-4     | -1       | -4   | ---         | FRONT VERT TOTAL |
| X                                                                                | 7-11-4     | -1       | -4   | ---         | FRONT VERT TOTAL |
| Y                                                                                | 11-11-4    | -1       | -4   | ---         | FRONT VERT TOTAL |
| Z                                                                                | 12-7-12    | -1       | -4   | ---         | FRONT VERT TOTAL |
| AA                                                                               | 16-7-12    | -1       | -4   | ---         | FRONT VERT TOTAL |
| AB                                                                               | 20-7-12    | -1       | -4   | ---         | FRONT VERT TOTAL |
| AC                                                                               | 3-11-4     | -22      | -22  | ---         | FRONT VERT TOTAL |
| AD                                                                               | 7-11-4     | -22      | -22  | ---         | FRONT VERT TOTAL |
| AE                                                                               | 11-11-4    | -22      | -22  | ---         | FRONT VERT TOTAL |
| AF                                                                               | 12-7-12    | -22      | -22  | ---         | FRONT VERT TOTAL |
| AG                                                                               | 16-7-12    | -22      | -22  | ---         | FRONT VERT TOTAL |
| AH                                                                               | 20-7-12    | -22      | -22  | ---         | FRONT VERT TOTAL |



DWG NO. TAM-12143-18  
STRUCTURAL  
COMPONENT ONLY





**LUMBER**  
N. L. G. A. RULES

| CHORDS                | SIZE | LUMBER | DESCR. |
|-----------------------|------|--------|--------|
| C                     | 2x4  | DRY    | No.2   |
| E                     | 2x4  | DRY    | No.2   |
| H                     | 2x4  | DRY    | No.2   |
| J                     | 2x4  | DRY    | No.2   |
| M                     | 2x4  | DRY    | No.2   |
| P                     | 2x4  | DRY    | No.2   |
| ALL WEBS              | 2x3  | DRY    | No.2   |
| DRY: SEASONED LUMBER. |      |        |        |

**PLATES (tablets in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMBH1-m | MT20   | 7.0 | 8.0 | Edge | 0.75 |
| C  | TTWW-h  | MT20   | 8.0 | 9.0 | Edge | 2.75 |
| D  | TMWW-h  | MT20   | 4.0 | 4.0 |      |      |
| E  | TS-1    | MT20   | 3.0 | 8.0 |      |      |
| F  | TMWW-h  | MT20   | 2.0 | 4.0 |      |      |
| G  | TMWW-h  | MT20   | 4.0 | 4.0 |      |      |
| H  | TTWW-h  | MT20   | 8.0 | 9.0 | Edge | 2.75 |
| I  | TMBH1-m | MT20   | 7.0 | 8.0 | Edge | 0.75 |
| K  | BMWW-h  | MT20   | 2.0 | 4.0 |      |      |
| L  | BMWW-h  | MT20   | 5.0 | 8.0 | 2.25 | 2.50 |
| M  | BS-1    | MT20   | 3.0 | 8.0 |      |      |
| N  | BMWW-h  | MT20   | 4.0 | 8.0 |      |      |
| O  | BMWW-h  | MT20   | 5.0 | 8.0 | 2.25 | 2.50 |
| P  | BMWW-h  | 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**

**PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING**

**BEARINGS**

| FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG | HEEL   |
|-------------------------|---------------------------------|-----------|----------|--------|
| JT VERT                 | HORIZ                           | DOWN      | HORIZ    | UPLIFT |
| B                       | 2000                            | 0         | 2000     | 0      |
| I                       | 2000                            | 0         | 2000     | 0      |

**UNFACTORED REACTIONS**

| JT | COMBINED | SNOW  | LIVE  | PERM. LIVE | WIND | DEAD  | SOIL |
|----|----------|-------|-------|------------|------|-------|------|
| B  | 1559     | 779/0 | 258/0 | 0/0        | 0/0  | 582/0 | 0/0  |
| I  | 1559     | 779/0 | 258/0 | 0/0        | 0/0  | 582/0 | 0/0  |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.89 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 (LBS) | FACTORED HORIZ. LOAD (LBS) | MAX. MEMB. FORCE (LBS) | MAX. FACTORED FORCE (LBS) | MAX. FACTORED HORIZ. LOAD (LBS) |
|--------|---------|---------------------------|---------------------------|----------------------------|------------------------|---------------------------|---------------------------------|
| FR-TO  |         |                           |                           |                            |                        |                           |                                 |
| A-B    | 0/134   | -127.4                    | -127.4                    | 0.08 (1)                   | 10.00                  | P-C                       | 0/204                           |
| B-R    | -2151/0 | -127.4                    | -127.4                    | 0.25 (1)                   | 3.89                   | C-O                       | 0/1808                          |
| R-C    | -2062/0 | -127.4                    | -127.4                    | 0.28 (1)                   | 3.87                   | O-D                       | -968/0                          |
| C-D    | -2389/0 | -127.4                    | -127.4                    | 0.69 (1)                   | 3.16                   | D-N                       | 0/470                           |
| D-E    | -2728/0 | -127.4                    | -127.4                    | 0.74 (1)                   | 2.89                   | N-F                       | -531/0                          |
| E-F    | -2728/0 | -127.4                    | -127.4                    | 0.74 (1)                   | 2.89                   | F-G                       | 0/470                           |
| F-G    | -2728/0 | -127.4                    | -127.4                    | 0.74 (1)                   | 2.89                   | G-H                       | -968/0                          |
| G-H    | -2389/0 | -127.4                    | -127.4                    | 0.69 (1)                   | 3.16                   | H-I                       | 0/1808                          |
| H-I    | -2062/0 | -127.4                    | -127.4                    | 0.28 (1)                   | 3.87                   | I-J                       | 0/204                           |
| I-J    | -2151/0 | -127.4                    | -127.4                    | 0.25 (1)                   | 3.89                   | J-K                       | -84/163                         |
| J-K    | 0/134   | -127.4                    | -127.4                    | 0.08 (1)                   | 10.00                  | K-L                       | -84/163                         |
| K-L    | 0/1212  | -28.0                     | -28.0                     | 0.32 (1)                   | 10.00                  | L-M                       | 0/1212                          |
| L-M    | 0/1212  | -28.0                     | -28.0                     | 0.34 (1)                   | 10.00                  | M-N                       | 0/1215                          |
| M-N    | 0/1215  | -28.0                     | -28.0                     | 0.36 (1)                   | 10.00                  | N-O                       | 0/2389                          |
| N-O    | 0/2389  | -28.0                     | -28.0                     | 0.69 (1)                   | 10.00                  | O-P                       | 0/2389                          |
| O-P    | 0/2389  | -28.0                     | -28.0                     | 0.58 (1)                   | 10.00                  | P-Q                       | 0/2389                          |
| P-Q    | 0/2389  | -28.0                     | -28.0                     | 0.69 (1)                   | 10.00                  | Q-R                       | 0/1215                          |
| Q-R    | 0/1215  | -28.0                     | -28.0                     | 0.36 (1)                   | 10.00                  | R-S                       | 0/1212                          |
| R-S    | 0/1212  | -28.0                     | -28.0                     | 0.34 (1)                   | 10.00                  | S-T                       | 0/1212                          |
| S-T    | 0/1212  | -28.0                     | -28.0                     | 0.82 (1)                   | 10.00                  |                           |                                 |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 30.0 PSF  
DL = 15.0 PSF  
BOT CH. LL = 10.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 62.5 PSF

**SPACING = 24.0 IN. CG**

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

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

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

(65 % OF 39.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.62")  
CALCULATED VERT. DEFL. (LL) = L/899 (0.10")  
ALLOWABLE DEFL. (TL) = L/360 (0.62")  
CALCULATED VERT. DEFL. (TL) = L/899 (0.18")

CSI: TO=0.74/1.00 (D-F-1), BC=0.58/1.00 (N-O-1), WB=0.48/1.00 (H-L-1), SS=0.57/1.00 (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 = 0.50  
FLAT ROOF FACTOR = 0.75

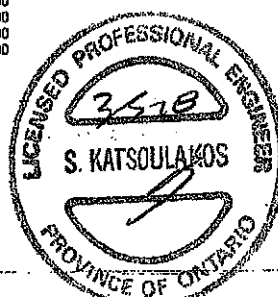
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP (DRY) SHEAR SECTION (PS) (PLI) (PLI)  
MT20 618 354 1987 822 2264 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (H) (INPUT = 0.90)  
JSI METAL= 0.89 (N) (INPUT = 1.00)

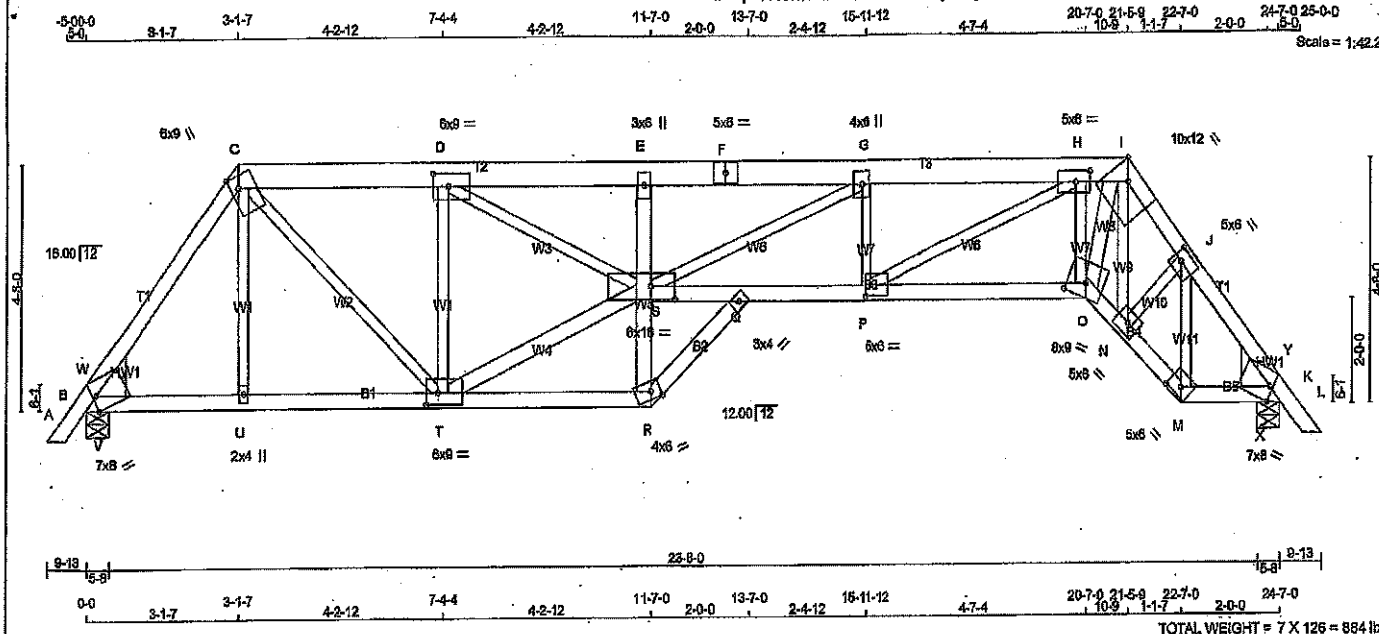


| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWS NO. |
|----------|------------|----------|-----|-------------|----------|
| 292720   | T10S       | 7        | 1   | TRUSS DESC. |          |

Tamrack Roof Truss, Burlington

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| LUMBER            |        |      |            |
|-------------------|--------|------|------------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER     |
| A - C             | 2x4    | DRY  | No.2       |
| C - F             | 2x6    | DRY  | No.2       |
| F - I             | 2x6    | DRY  | No.2       |
| I - L             | 2x4    | DRY  | No.2       |
| L - R             | 2x4    | DRY  | No.2       |
| R - Q             | 2x4    | DRY  | No.2       |
| Q - O             | 2x4    | DRY  | 2100F 1.8E |
| O - M             | 2x4    | DRY  | No.2       |
| M - K             | 2x4    | DRY  | No.2       |

DRY: SEASONED LUMBER.

| PLATES (tablets in inches) |          |        |                     |
|----------------------------|----------|--------|---------------------|
| JT                         | TYPE     | PLATES | W LEN Y X           |
| B                          | TMBH1-m  | MT20   | 7.0 8.0 Edge 0.76   |
| C                          | TTWW+m   | MT20   | 6.0 9.0 2.75 1.76   |
| D                          | TMWW+L   | MT20   | 6.0 9.0 3.00 3.76   |
| E                          | TMWW+L   | MT20   | 3.0 6.0             |
| F                          | TS4      | MT20   | 5.0 6.0             |
| G                          | TMWW+L   | MT20   | 4.0 6.0             |
| H                          | TMWW+L   | MT20   | 5.0 8.0 2.50 3.50   |
| I                          | TTWW+L   | MT20   | 10.0 12.0 Edge 4.50 |
| J                          | TMWW+L   | MT20   | 5.0 6.0 2.50 2.00   |
| K                          | TMBH1-m  | MT20   | 7.0 8.0 Edge 0.75   |
| M                          | BMW+L    | MT20   | 5.0 6.0 2.00 3.25   |
| N                          | BMW+L    | MT20   | 5.0 6.0             |
| O                          | BMW+L    | MT20   | 8.0 9.0 3.25 4.50   |
| P                          | BMW+L    | MT20   | 5.0 6.0 2.50 1.50   |
| Q                          | BMB+L    | MT20   | 3.0 4.0             |
| R                          | BMW+L    | MT20   | 4.0 6.0 Edge 2.25   |
| S                          | BMWWWW+L | MT20   | 6.0 18.0 3.00 5.75  |
| T                          | BMWWWW+L | MT20   | 6.0 9.0 2.75 3.00   |
| U                          | BMW+L    | 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

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING

| BEARINGS |                         |                                 |           |            |            |
|----------|-------------------------|---------------------------------|-----------|------------|------------|
| JT       | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | RECORD BRG | HEEL WEDGE |
| B        | 2000                    | 2000                            | 0         | 5-8        | 2x10 L     |
| K        | 2000                    | 2000                            | 0         | 5-8        | 2x10 R     |

| UNFACTORED REACTIONS |          |                             |      |       |      |
|----------------------|----------|-----------------------------|------|-------|------|
| JT                   | 1ST CASE | MAX/MIN COMPONENT REACTIONS | WIND | DEAD  | SOIL |
| B                    | COMBINED | SNOW LIVE PERM.LIVE         | 0/0  | 552/0 | 0/0  |
| K                    | COMBINED | SNOW LIVE PERM.LIVE         | 0/0  | 552/0 | 0/0  |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.13 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

MAX. UNBRACED INTERIOR CHORD LENGTH = 7.81 FT

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

LOADING  
TOTAL LOAD CASES: (4)

| CHORDS |                           |                      |                 | WEBS  |                           |                      |          |
|--------|---------------------------|----------------------|-----------------|-------|---------------------------|----------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD LC1 (PLF) | CS1 (LC)        | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH | CS1 (LC) |
| FR-TO  |                           |                      |                 | FR-TO |                           |                      |          |
| A-B    | 0/34                      | -127.4               | -127.4 0.08 (1) | U-C   | 0/160                     | 10.00                | 0.08 (3) |
| B-W    | -2169/0                   | -127.4               | -127.4 0.25 (1) | C-T   | 0/1605                    | 3.87                 | 0.48 (1) |
| W-C    | -2083/0                   | -127.4               | -127.4 0.28 (1) | T-D   | -1973/0                   | 3.97                 | 0.79 (1) |
| C-D    | -2361/0                   | -127.4               | -127.4 0.23 (1) | D-S   | -246/0                    | 4.58                 | 0.21 (1) |
| D-E    | -4805/0                   | -127.4               | -127.4 0.40 (1) | S-E   | -477/0                    | 3.21                 | 0.21 (1) |
| E-F    | -4840/0                   | -127.4               | -127.4 0.48 (1) | S-G   | 0/176                     | 3.13                 | 0.02 (1) |
| F-G    | -4840/0                   | -127.4               | -127.4 0.48 (1) | G-H   | -848/0                    | 3.13                 | 0.14 (1) |
| G-H    | -4772/0                   | -127.4               | -127.4 0.43 (1) | H-I   | -1330/0                   | 3.19                 | 0.63 (1) |
| H-I    | -2652/0                   | -127.4               | -127.4 0.13 (1) | I-J   | -1330/0                   | 4.34                 | 0.28 (1) |
| I-J    | -2659/0                   | -127.4               | -127.4 0.21 (1) | J-K   | 0/3185                    | 3.47                 | 0.88 (1) |
| J-K    | -2162/0                   | -127.4               | -127.4 0.22 (1) | K-L   | -788/0                    | 3.82                 | 0.20 (1) |
| K-L    | -2313/0                   | -127.4               | -127.4 0.23 (1) | L-M   | 0/7713                    | 3.78                 | 0.21 (1) |
| L-M    | 0/34                      | -127.4               | -127.4 0.06 (1) | M-N   | -1226/0                   | 10.00                | 0.29 (1) |
| M-N    | 0/1221                    | -28.0                | -28.0 0.31 (1)  | N-O   | 0/2214                    | 10.00                | 0.47 (1) |
| N-O    | 0/1221                    | -28.0                | -28.0 0.32 (1)  | O-P   | 0/2802                    | 10.00                | 0.84 (1) |
| O-P    | 0/1224                    | -28.0                | -28.0 0.36 (3)  | P-Q   | -93/101                   | 10.00                | 0.00 (1) |
| P-Q    | 0/1357                    | -28.0                | -28.0 0.34 (3)  | Q-R   | 0/167                     | 10.00                | 0.00 (1) |
| Q-R    | 0/431                     | -28.0                | -28.0 0.11 (1)  | R-S   |                           | 10.00                |          |
| R-S    | 0/4482                    | 0.0                  | 0.0 0.88 (1)    | S-T   |                           | 10.00                |          |
| S-T    | 0/4772                    | -28.0                | -28.0 0.81 (1)  | T-U   |                           | 10.00                |          |
| T-U    | 0/2914                    | -28.0                | -28.0 0.45 (1)  | U-V   |                           | 10.00                |          |
| U-V    | 0/2915                    | -28.0                | -28.0 0.58 (1)  | V-W   |                           | 10.00                |          |
| V-W    | 0/1757                    | -28.0                | -28.0 0.44 (1)  | W-X   |                           | 10.00                |          |
| W-X    | 0/1289                    | -28.0                | -28.0 0.30 (1)  | X-Y   |                           | 10.00                |          |
| X-Y    | 0/1289                    | -28.0                | -28.0 0.30 (1)  | Y-Z   |                           | 10.00                |          |

DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 30.0 PSF  
CL = 15.0 PSF  
BOT CH. LL = 10.5 PSF  
CL = 7.0 PSF  
TOTAL LOAD = 62.5 PSF  
SPACING = 24.0 IN. DIC

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

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

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

(65 % OF 39.5 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.82")  
CALCULATED VERT. DEFL.(LL) = 1/898 (0.23")  
ALLOWABLE DEFL.(TL) = L/360 (0.82")  
CALCULATED VERT. DEFL.(TL) = 1/658 (0.45")

CSI: TO=0.46/1.00 (E-G:1), BC=0.91/1.00 (P-Q:1), WB=0.84/1.00 (D-S:1), SSI=0.25/1.00 (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 = 0.50  
FLAT ROOF FACTOR = 0.75

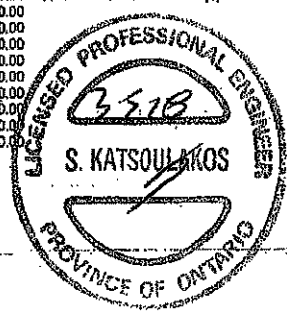
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1687 822 2284 1656

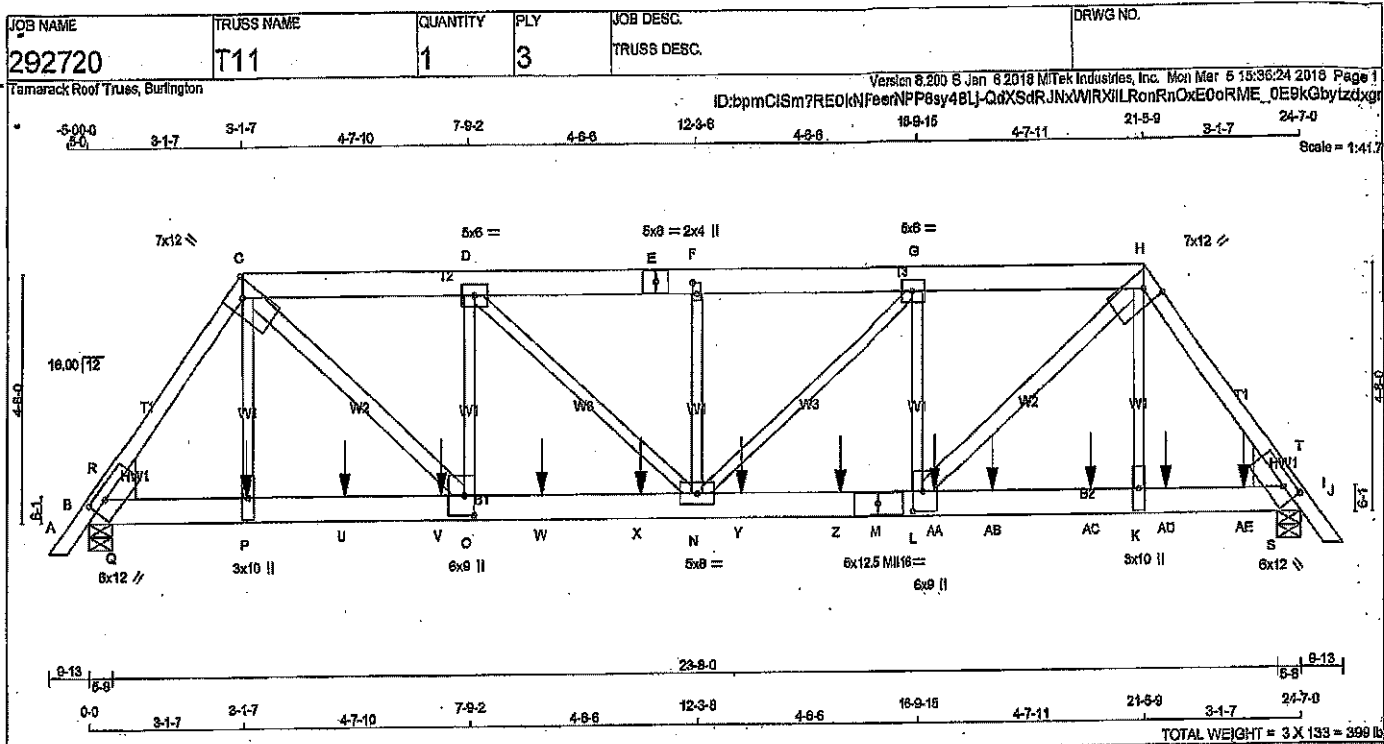
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (C) (INPUT = 0.90)  
JSI METAL= 0.78 (S) (INPUT = 1.00)



DWG NO. TAM-12145-8  
STRUCTURAL  
COMPONENT ONLY



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| <b>LUMBER</b><br>N. L. G. A. RULES<br>CHORDS SIZE LUMBER DESCR. SPF<br>A - C 2x4 DRY No.2 SPF<br>C - E 2x6 DRY No.2 SPF<br>E - H 2x6 DRY No.2 SPF<br>H - J 2x4 DRY No.2 SPF<br>B - M 2x6 DRY 2100F 1.8E SPF<br>M - I 2x6 DRY 2100F 1.8E SPF<br>ALL WEBS 2x3 DRY No.2 SPF<br>EXCEPT<br>C - O 2x4 DRY No.2 SPF<br>L - H 2x4 DRY No.2 SPF<br>DRY: SEASONED LUMBER.<br>DESIGN CONSISTS OF 3 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:<br>CHORDS #ROWS SURFACE SPACING (IN) LOAD (PLF)<br>TOP CHORDS: (0.122"x3") SPIRAL NAILS<br>A-C 1 12 TOP<br>H-J 1 12 TOP<br>C-E 2 12 TOP<br>E-H 2 12 TOP<br>BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS<br>B-M 2 4 SIDE (815.9)<br>M-I 2 4 SIDE (1750.7)<br>WEBS: (0.122"x3") SPIRAL NAILS<br>2x3 1 6<br>2x4 1 6<br>STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.<br>GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.<br>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.<br>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.<br>PLATES (table is in inches)<br>JT TYPE PLATES W LEN Y X<br>B TMBH1-h MT20 9.0 12.0 2.25 3.50<br>C TTWW+h MT20 7.0 12.0 Edge<br>D TMWW+h MT20 5.0 6.0<br>E TS-h MT20 5.0 6.0<br>F TMWW+h MT20 2.0 4.0 2.60 1.00<br>G TMWW+h MT20 5.0 6.0<br>H TTWW+h MT20 7.0 12.0 Edge<br>I TMBH1-h MT20 8.0 12.0 2.25 3.50<br>K BMWW+h MT20 3.0 10.0<br>L BMWW+h MT20 8.0 9.0 4.50 2.25<br>M BS-h MT16 5.0 12.5<br>N BMWW+h MT20 5.0 8.0<br>O BMWW+h MT20 6.0 9.0 4.50 2.25<br>P BMWW+h MT20 3.0 10.0<br>Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD. |  |  |  | <b>DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</b><br>PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING.<br><b>BEARINGS</b><br>FACTORED MAXIMUM FACTORED INPUT REQD HEEL<br>GROSS REACTION GROSS REACTION BRG IN-SX IN-SX WEDGE<br>JT VERT HORZ DOWN HORZ UPLIFT IN-SX<br>B 9337 0 9337 0 0 5-8 5-8 2x10 L<br>I 14045 0 14045 0 0 5-8 5-8 2x10 R<br><b>UNFACTORED REACTIONS</b><br>1ST LOASE MAX MIN COMPONENT REACTIONS<br>JT COMBINED SNOW LIVE PERM LIVE WIND DEAD SOIL<br>B 7423 3670 / 0 1147 / 0 0 / 0 0 / 0 2887 / 0 0 / 0<br>I 11160 5529 / 0 1716 / 0 0 / 0 0 / 0 3915 / 0 0 / 0<br>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, I<br><b>BRACING</b><br>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.10 FT.<br>MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.<br>ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.<br><b>LOADING</b><br>TOTAL LOAD CASES: (4)<br>CHORDS FACTORED FACTORED WEBS<br>MEMB. FORCE VERT. LOAD LC1 MAX MAX. MEMB. FORCE MAX<br>(LBS) (PLF) CSI (LC) UNBRAC (LBS) CSI (LC)<br>FR-TO FROM TO LENGTH FR-TO<br>A-B -127.4 -127.4 0.02 (1) 10.00 P-C 0 / 2405 0.24 (1)<br>B-R -11483 / 0 -127.4 -127.4 0.32 (1) 2.91 C-O 0 / 6169 0.68 (1)<br>R-C -11261 / 0 -127.4 -127.4 0.38 (1) 2.94 O-D -3039 / 0 0.38 (1)<br>C-D -13620 / 0 -127.4 -127.4 0.26 (1) 3.42 D-N 0 / 3576 0.38 (1)<br>D-E -16241 / 0 -127.4 -127.4 0.36 (1) 3.08 N-F -545 / 0 0.07 (1)<br>E-F -16241 / 0 -127.4 -127.4 0.36 (1) 3.08 F-G -545 / 0 0.07 (1)<br>F-G -16241 / 0 -127.4 -127.4 0.37 (1) 3.08 G-H -870 / 0 0.12 (1)<br>G-H -15814 / 0 -127.4 -127.4 0.36 (1) 3.18 H-I 0 / 6667 0.62 (1)<br>H-I -15405 / 0 -127.4 -127.4 0.69 (1) 2.22 I-J 0 / 6027 0.60 (1)<br>I-J -16001 / 0 -127.4 -127.4 0.64 (1) 2.19 J-K 0 / 1110 0.00 (1)<br>J-K -16001 / 0 -127.4 -127.4 0.02 (1) 10.00 K-L 0 / 639 0.00 (1)<br>B-Q 0 / 6743 -28.0 -28.0 0.16 (1) 10.00<br>Q-P 0 / 6743 -28.0 -28.0 0.18 (1) 10.00<br>P-U 0 / 6803 -28.0 -28.0 0.34 (1) 10.00<br>U-V 0 / 6803 -28.0 -28.0 0.34 (1) 10.00<br>V-O 0 / 6803 -28.0 -28.0 0.34 (1) 10.00<br>O-W 0 / 13820 -28.0 -28.0 0.48 (1) 10.00<br>W-X 0 / 13820 -28.0 -28.0 0.48 (1) 10.00<br>X-N 0 / 13820 -28.0 -28.0 0.48 (1) 10.00<br>N-Y 0 / 15814 -28.0 -28.0 0.63 (1) 10.00<br>Y-Z 0 / 15814 -28.0 -28.0 0.63 (1) 10.00<br>Z-M 0 / 15814 -28.0 -28.0 0.63 (1) 10.00<br>M-L 0 / 15814 -28.0 -28.0 0.63 (1) 10.00<br>L-AA 0 / 6390 -28.0 -28.0 0.54 (1) 10.00<br>AA-AB 0 / 6390 -28.0 -28.0 0.54 (1) 10.00<br>AB-AC 0 / 6390 -28.0 -28.0 0.54 (1) 10.00<br>AC-K 0 / 6241 -28.0 -28.0 0.54 (1) 10.00<br>K-AD 0 / 6241 -28.0 -28.0 0.54 (1) 10.00<br>AD-AE 0 / 6241 -28.0 -28.0 0.54 (1) 10.00<br>AE-S 0 / 6241 -28.0 -28.0 0.54 (1) 10.00<br>S-I 0 / 6241 -28.0 -28.0 0.27 (1) 10.00<br>FACTORED CONCENTRATED LOADS (LBS)<br>JT LOC LC1 MAX MAX FACE DIR TYPE<br>P 3-2-4 -1821 -1821 - BACK VERT TOTAL<br>U 5-2-4 -1176 -1176 - BACK VERT TOTAL<br>V 7-2-4 -1176 -1176 - BACK VERT TOTAL<br>W 9-2-4 -1176 -1176 - BACK VERT TOTAL |  |  |  | <b>DESIGN CRITERIA</b><br>SPECIFIED LOADS:<br>TOP CH. LL = 30.0 PSF<br>DL = 15.0 PSF<br>BOT CH. LL = 10.5 PSF<br>DL = 7.0 PSF<br>TOTAL LOAD = 82.5 PSF<br>SPACING = 24.0 IN. C/C<br>LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.0012<br>THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010<br>THIS DESIGN COMPLIES WITH:<br>- PART 9 OF OSC 2012, BCBC 2012, AEC 2014<br>- CSA 086-09<br>- TRC 2011<br>(55 % OF 39.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD<br>ALLOWABLE DEFL. (LL) = L/360 (0.82")<br>CALCULATED VERT. DEFL. (LL) = L/999 (0.13")<br>ALLOWABLE DEFL. (TL) = L/360 (0.82")<br>CALCULATED VERT. DEFL. (TL) = L/999 (0.24")<br>CSI: TC=0.89/1.00 (H-T:1), BC=0.89/1.00 (L-N:1), WB=0.88/1.00 (C-O:1), SI=0.84/1.00 (K-L:1)<br>DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10<br>COMP=1.10 SHEAR=1.10 TENS=1.10<br>COMPANION LIVE LOAD FACTOR = 0.50<br>FLAT ROOF FACTOR = 0.75<br>AUTOSOLVE HEELS OFF<br>TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.<br>NAIL VALUES<br>PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)<br>MAX MIN MAX MIN MAX MIN<br>MT20 618 354 1667 822 2284 1856<br>MT16 473 278 2341 1245 4454 1658<br>PLATE PLACEMENT TOL = 0.250 inches<br>PLATE ROTATION TOL = 5.0 Deg.<br>GRIP = 0.88 (f) (INPUT = 0.80)<br>JS METAL = 0.87 (f) (INPUT = 1.00)<br>DWG NO. TAM-12146-08<br>STRUCTURAL COMPONENT ONLY<br>CONTINUED ON PAGE 2 |  |  |  |
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|          |            |          |     |             |          |
|----------|------------|----------|-----|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 292720   | T11        | 1        | 3   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

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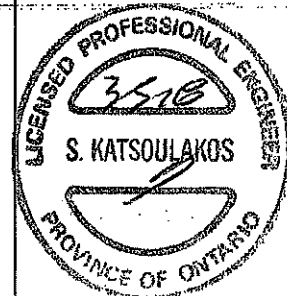
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#### HANGERS NOTES

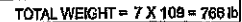
1) SPECIAL HANGER(S) OR CONNECTION(S)  
REQUIRED TO SUPPORT CONCENTRATED  
LOAD(S) 1821.0 lbs FACTORED DOWN AT 3-2-4,  
1178.4 lbs FACTORED DOWN AT 6-2-4, 1178.4  
lbs FACTORED DOWN AT 7-2-4, 1178.4 lbs  
FACTORED DOWN AT 9-2-4, 1178.4 lbs  
FACTORED DOWN AT 11-2-4, 1178.4 lbs  
FACTORED DOWN AT 13-2-4, 1178.4 lbs  
FACTORED DOWN AT 15-2-4, 1178.4 lbs  
FACTORED DOWN AT 17-2-4, 2815.6 lbs  
FACTORED DOWN AT 18-4-4, 2237.0 lbs  
FACTORED DOWN AT 20-4-4, AND 2237.0 lbs  
FACTORED DOWN AT 21-11-0, AND 2237.0 lbs  
FACTORED DOWN AT 23-6-12 ON BOTTOM  
CHORD. DESIGN FOR UNSPECIFIED  
CONNECTION(S) IS DELEGATED TO THE  
BUILDING DESIGNER.

#### FACTORED CONCENTRATED LOADS (LBS)

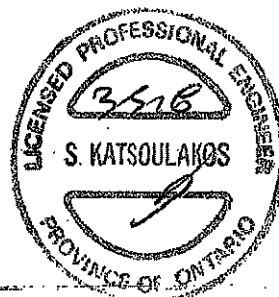
| JT | LOC.    | LC1   | MAX.  | MAX+ | FACE | DIR. | TYPE  |
|----|---------|-------|-------|------|------|------|-------|
| X  | 11-2-4  | -1178 | -1178 | —    | BACK | VERT | TOTAL |
| Y  | 13-2-4  | -1178 | -1178 | —    | BACK | VERT | TOTAL |
| Z  | 15-2-4  | -1178 | -1178 | —    | BACK | VERT | TOTAL |
| AA | 17-2-4  | -1178 | -1178 | —    | BACK | VERT | TOTAL |
| AB | 18-4-4  | -2815 | -2815 | —    | BACK | VERT | TOTAL |
| AC | 20-4-4  | -2237 | -2237 | —    | BACK | VERT | TOTAL |
| AD | 21-11-0 | -2237 | -2237 | —    | BACK | VERT | TOTAL |
| AE | 23-6-12 | -2237 | -2237 | —    | BACK | VERT | TOTAL |



DWG NO. TAM 12446-508  
STRUCTURAL  
COMPONENT ONLY



DWG NO. TAM 1247-03  
STRUCTURAL  
COMPONENT ONLY



**JOB NAME** 292720 **TRUSS NAME** T12Z **QUANTITY** 1 **PLY** 2 **TRUSS DESC.**

Tamarack Roof Truss, Burlington

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ID:bpmCISm?REOkNFeenPP6sy48Lj-up5qmK7iqqlbstX\_VlgKcTUBcpnzWwNNQ09UJzdxg

Scale = 1:32

**LUMBER**  
N.L.G.A. RULES  
CHORDS SIZE LUMBER DESCR.  
A - C 2x4 DRY No.2 SPF  
C - F 2x6 DRY No.2 SPF  
H - F 2x6 DRY No.2 SPF  
M - B 2x6 DRY No.2 2100F 1.8E SPF  
J - G 2x6 DRY No.2 2100F 1.8E SPF  
H - G 2x6 DRY No.2 SPF  
ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT I - F 2x4 DRY No.2 SPF  
DRY; SEASONED LUMBER.

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

**CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF)**  
TOP CHORDS : (0.122"x3") SPIRAL NAILS SIDE(46.7)  
A-C 1 12 TOP(SIDE(91.5))  
C-F 2 12 TOP  
F-H 2 12 TOP  
M-B 2 12 TOP  
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS SIDE(148.3)  
J-G 2 12 SIDE(148.3)  
WEBS : (0.122"x3") SPIRAL NAILS  
2x3 1 6  
2x4 1 6  
2x6 2 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 PLYS FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.**

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

**PLATES (Table is in inches)**  
JT TYPE PLATES W LEN Y X  
B TMWW-I MT20 5.0 8.0 2.50 2.25  
C TTWW-m MT20 5.0 8.0 2.50 1.00  
D TMWW-w MT20 2.0 4.0 2.50 1.00  
E TMWW-h MT20 4.0 4.0 2.50 1.75  
F TMWW-I MT20 5.0 6.0  
H BMWW-I MT20 10.0 12.0 5.00 4.25  
I BMWW-I MT20 5.0 6.0  
J BS-I MT20 5.0 6.0  
K BMWW-I MT20 5.0 6.0  
L BMWW-I MT20 4.0 6.0  
M BMV-I-p MT20 3.0 6.0

**HANGERS NOTES**

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**  
**PROVIDE ADEQUATE DRAINAGE TO PREVENT FLOODING**  
**BEARINGS**  
FACTORED GROSS REACTION MAXIMUM FACTORED DOWN BRG INPUT REGRD BRG  
JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX  
M 2163 0 2163 0 0 5-0 5-0  
G 2160 0 2160 0 0 5-0 5-0  
**UNFACTORED REACTIONS**  
1ST CASE SNOW LIVE PERMLIVE WIND DEAD SOIL  
JT COMBINED M 1680 983 / 0 217 / 0 0 / 0 0 / 0 478 / 0 0 / 0  
G 1671 1016 / 0 216 / 0 0 / 0 438 / 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 = 5.59 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. FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. CS1 (LC) MAX. UNBRAC LENGTH FR-TO  
FR-TO  
A-B 0 / 33 -127.4 -127.4 0.03 (1) 10.00  
B-C -1881 / 0 -127.4 -127.4 0.13 (1) 5.59  
C-N -2388 / 0 -200.3 -200.3 0.26 (1) 5.58  
N-O -2388 / 0 -200.3 -200.3 0.26 (1) 5.58  
O-D -2388 / 0 -200.3 -200.3 0.26 (1) 5.58  
D-P -2388 / 0 -200.3 -200.3 0.26 (1) 5.58  
P-Q -2388 / 0 -200.3 -200.3 0.26 (1) 5.58  
Q-R -2388 / 0 -200.3 -200.3 0.26 (1) 5.58  
R-E -2388 / 0 -200.3 -200.3 0.26 (1) 5.58  
E-S -2388 / 0 -200.3 -200.3 0.26 (1) 5.58  
S-T -2388 / 0 -200.3 -200.3 0.26 (1) 5.58  
T-U -2388 / 0 -200.3 -200.3 0.26 (1) 5.58  
U-F -2388 / 0 -200.3 -200.3 0.26 (1) 5.58  
H-F -2388 / 0 0.0 0.0 0.34 (1) 7.74  
M-B -2169 / 0 0.0 0.0 0.11 (1) 7.81  
**WEBS**  
MEMB. MAX. FORCE (LBS) MAX. CS1 (LC) MAX. UNBRAC LENGTH FR-TO  
L-C -225 / 70 0.05 (1) 10.00  
B-L 0 / 1213 0.20 (1) 5.59  
I-F 0 / 3052 0.36 (1) 5.58  
C-K 0 / 1882 0.27 (1) 5.58  
I-E -1167 / 0 0.25 (1) 5.58  
K-D -1115 / 0 0.24 (1) 5.58  
K-E 0 / 12 0.00 (4) 5.58  
**DESIGN CRITERIA**  
\*\*\* SPECIAL LOADS ANALYSIS \*\*\*  
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.  
LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE  
SPECIFIED LOADS:  
TOP CH. LL = 30.0 PSF  
DL = 15.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 62.5 PSF  
SPACING = 24.0 IN.C/C  
LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12  
\*\*\* NON STANDARD GIRDER \*\*\*  
ADDT. USER-DEFINED LOADS APPLIED TO LOADCASE(S): 1,2  
THIS DESIGN COMPLIES WITH:  
PART 9 OF CBC 2012, BCBC 2012, ABC 2014  
CSA C86-09  
TPIC 2011  
(55 % OF 30.3 P.S.F. G.S.L PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD  
ALLOWABLE DEFL.(LL)= L/360 (0.64")  
CALCULATED VERT. DEFL.(LL) = 1/898 (0.08")  
ALLOWABLE DEFL.(TL)= L/360 (0.64")  
CALCULATED VERT. DEFL.(TL) = 1/898 (0.13")  
CSI: JC=0.34/1.00 (F-H-1), BC=0.48/1.00 (H-I-1), WB=0.38/1.00 (F-I-1), SB=0.48/1.00 (G-H-1)  
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00  
COMPANION LIVE LOAD FACTOR = 0.50  
FLAT ROOF FACTOR = 0.75  
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)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 622 2284 1658  
PLATE PLACEMENT TOL. = 0.250 Inches  
PLATE ROTATION TOL. = 5.0 Deg.  
JSI GRIP= 0.80 (C) (INPUT = 0.80)  
JSI METAL= 0.42 (C) (INPUT = 1.00)  
DWG NO. TAM 2148-88 STRUCTURAL

**PROFESSIONAL ENGINEER**  
S. KATSOUAKOS  
PROVINCE OF ONTARIO

**CONTINUED ON PAGE 2**

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 292720   | T12Z       | 1        | 2   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

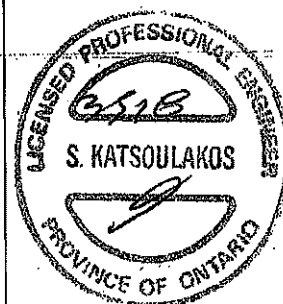
Version 8.200 S Jan 6 2018 Mitek Industries, Inc. Mon Mar 5 15:26:25 2018 Page 2  
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# HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 66.5 lbs FACTORED DOWN AT 2-6-4, 1.0 lbs FACTORED DOWN AT 4-7-0, 1.0 lbs FACTORED DOWN AT 6-7-0, 1.0 lbs FACTORED DOWN AT 8-7-0, 1.0 lbs FACTORED DOWN AT 10-7-0, 1.0 lbs FACTORED DOWN AT 12-7-0, 1.0 lbs FACTORED DOWN AT 14-7-0, AND 1.0 lbs FACTORED DOWN AT 16-7-0, AND 34.5 lbs FACTORED DOWN AT 18-1-4 ON TOP CHORD, AND 6.4 lbs FACTORED DOWN AT 1-11-4, 4.0 lbs FACTORED DOWN AT 2-7-0, 4.0 lbs FACTORED DOWN AT 4-7-0, 4.0 lbs FACTORED DOWN AT 6-7-0, 4.0 lbs FACTORED DOWN AT 8-7-0, 4.0 lbs FACTORED DOWN AT 10-7-0, 4.0 lbs FACTORED DOWN AT 12-7-0, 4.0 lbs FACTORED DOWN AT 14-7-0, AND 4.0 lbs FACTORED DOWN AT 16-7-0, AND 4.0 lbs FACTORED DOWN AT 18-1-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

## FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE  |
|----|--------|-----|------|------|------|------|-------|
| Q  | 10-7-0 | 1   | 1    | ---  | BACK | VERT | TOTAL |
| R  | 12-7-0 | 1   | 1    | ---  | BACK | VERT | TOTAL |
| S  | 14-7-0 | 1   | 1    | ---  | BACK | VERT | TOTAL |
| T  | 16-7-0 | 1   | 1    | ---  | BACK | VERT | TOTAL |
| U  | 18-1-4 | -35 | -35  | ---  | BACK | VERT | TOTAL |
| V  | 1-11-4 | -2  | -5   | ---  | BACK | VERT | TOTAL |
| W  | 4-7-0  | -1  | -4   | ---  | BACK | VERT | TOTAL |
| X  | 6-7-0  | -1  | -4   | ---  | BACK | VERT | TOTAL |
| Y  | 8-7-0  | -1  | -4   | ---  | BACK | VERT | TOTAL |
| Z  | 10-7-0 | -1  | -4   | ---  | BACK | VERT | TOTAL |
| AA | 12-7-0 | -1  | -4   | ---  | BACK | VERT | TOTAL |
| AB | 14-7-0 | -1  | -4   | ---  | BACK | VERT | TOTAL |
| AC | 16-7-0 | -1  | -4   | ---  | BACK | VERT | TOTAL |
| AD | 18-1-4 | -1  | -4   | ---  | BACK | VERT | TOTAL |

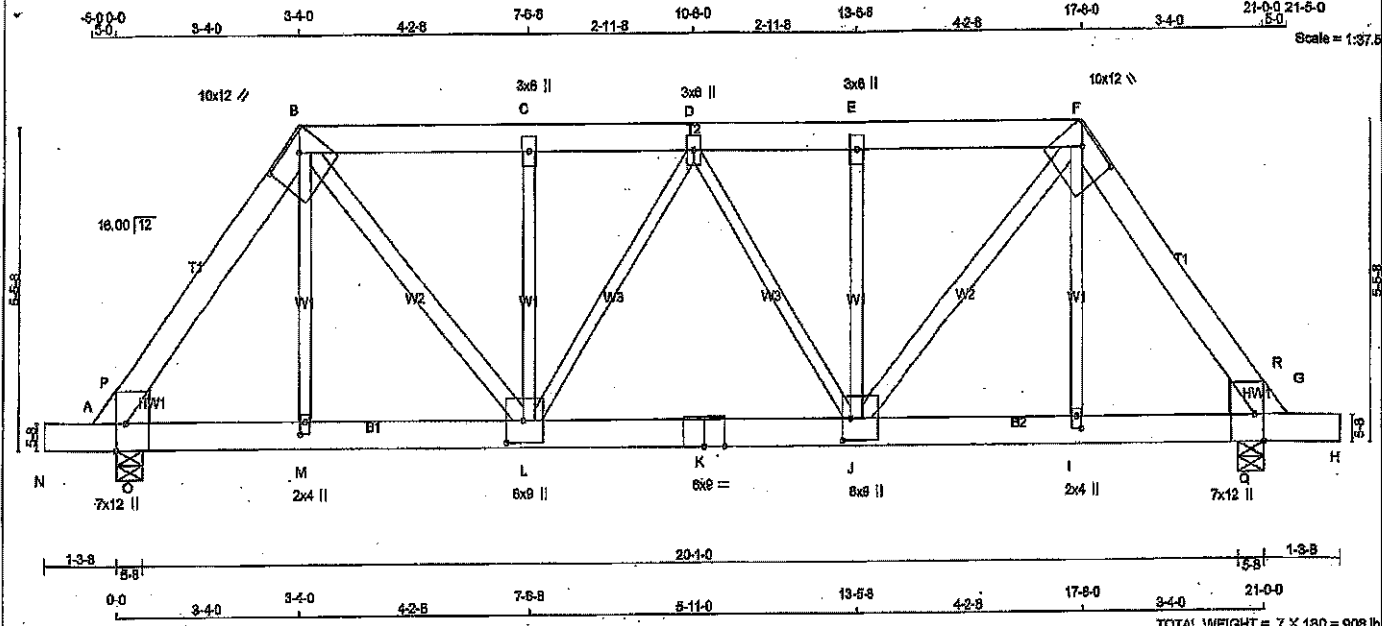


DWG NO. TAM 1240  
STRUCTURAL  
COMPONENT ONLY

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 292720   | T13        | 7        | 1   | TRUSS DESC. |          |

Temarack Roof Truss, Burlington

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| LUMBER            |      |        |        |
|-------------------|------|--------|--------|
| N. L. G. A. RULES | SIZE | LUMBER | DESCR. |
| CHORDS            |      |        |        |
| A - B             | 2x6  | DRY    | No.2   |
| B - F             | 2x6  | DRY    | No.2   |
| F - G             | 2x6  | DRY    | No.2   |
| N - K             | 2x6  | DRY    | No.2   |
| K - H             | 2x6  | DRY    | No.2   |
| ALL WEBS          | 2x3  | DRY    | No.2   |
| EXCEPT            |      |        |        |
| B - L             | 2x4  | DRY    | No.2   |
| J - F             | 2x4  | DRY    | No.2   |

DRY: SEASONED LUMBER.

**PLATES (table in inches)**

| JT TYPE | PLATES | W    | LEN  | Y    | X         |
|---------|--------|------|------|------|-----------|
| A - B   | TMH1+1 | MT20 | 7.0  | 12.0 | Edge 1.75 |
| B - F   | TTWW-h | MT20 | 10.0 | 12.0 | 2.75 7.25 |
| C - T   | TMW+w  | MT20 | 3.0  | 6.0  |           |
| D - T   | TMW+w  | MT20 | 3.0  | 6.0  |           |
| E - T   | TMW+w  | MT20 | 3.0  | 6.0  |           |
| F - T   | TTWW-h | MT20 | 10.0 | 12.0 | 2.75 7.25 |
| G - B   | TMH1+1 | MT20 | 7.0  | 12.0 | Edge 1.75 |
| H - F   | BMW+w  | MT20 | 2.0  | 4.0  | 2.60 1.00 |
| I - J   | BMW+w  | MT20 | 8.0  | 9.0  | 4.50 1.75 |
| K - L   | BS-1   | MT20 | 6.0  | 9.0  |           |
| L - M   | BMW+w  | MT20 | 8.0  | 9.0  | 4.50 3.75 |
| M - N   | BMW+w  | MT20 | 2.0  | 4.0  | 2.50 1.00 |

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

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

**PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING**

| BEARINGS |      | FACTORED       |       | MAXIMUM FACTORED |       | INPUT  |       | REQD |       | HEEL  |  |
|----------|------|----------------|-------|------------------|-------|--------|-------|------|-------|-------|--|
| JT       | VERT | GROSS REACTION | HORIZ | DOWN             | HORIZ | UPLIFT | IN-SX | BRG  | IN-SX | WEDGE |  |
| A        | 2355 | 0              | 2355  | 0                | 0     | 0      | 5-8   | 5-8  | 5-8   | 2x8 L |  |
| G        | 2355 | 0              | 2355  | 0                | 0     | 0      | 5-8   | 5-8  | 5-8   | 2x8 R |  |

**UNFACTORED REACTIONS**

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | LIVE    | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|-------------------------------|---------|------------|-------|---------|-------|
| A  | 1622     | 1055 / 0                      | 248 / 0 | 0 / 0      | 0 / 0 | 519 / 0 | 0 / 0 |
| G  | 1621     | 1055 / 0                      | 248 / 0 | 0 / 0      | 0 / 0 | 519 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.24 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) | VERT. LOAD LC1 (PLF) | MAX. CS1 (LC)   | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |          |
| FR-TO  |                           |                      |                 | FR-TO |                           |               |          |
| A-P    | -2293 / 0                 | -127.4               | -127.4 0.11 (1) | 4.72  | M-B                       | 0 / 280       | 0.08 (3) |
| P-B    | -2487 / 0                 | -127.4               | -127.4 0.25 (1) | 4.42  | B-L                       | 0 / 1512      | 0.38 (1) |
| B-C    | -2472 / 0                 | -200.3               | -200.3 0.39 (1) | 4.24  | L-C                       | -782 / 0      | 0.42 (1) |
| C-D    | -2472 / 0                 | -200.3               | -200.3 0.30 (1) | 4.35  | J-E                       | -782 / 0      | 0.42 (1) |
| D-E    | -2472 / 0                 | -200.3               | -200.3 0.30 (1) | 4.35  | J-F                       | 0 / 1511      | 0.38 (1) |
| E-F    | -2472 / 0                 | -200.3               | -200.3 0.39 (1) | 4.24  | L-F                       | 0 / 280       | 0.09 (3) |
| F-R    | -2487 / 0                 | -127.4               | -127.4 0.25 (1) | 4.42  | L-D                       | -285 / 0      | 0.21 (1) |
| R-G    | -2293 / 0                 | -127.4               | -127.4 0.11 (1) | 4.72  | D-J                       | -285 / 0      | 0.21 (1) |
| N-A    | 0 / 0                     | -155.4               | -155.4 0.08 (1) | 10.00 | O-P                       | -485 / 0      | 0.00 (1) |
| A-O    | 0 / 1485                  | -28.0                | -28.0 0.54 (1)  | 10.00 | Q-R                       | -485 / 0      | 0.00 (1) |
| O-M    | 0 / 1485                  | -28.0                | -28.0 0.54 (1)  | 10.00 |                           |               |          |
| M-L    | 0 / 1485                  | -28.0                | -28.0 0.38 (1)  | 10.00 |                           |               |          |
| L-K    | 0 / 2617                  | -28.0                | -28.0 0.55 (1)  | 10.00 |                           |               |          |
| K-J    | 0 / 2617                  | -28.0                | -28.0 0.55 (1)  | 10.00 |                           |               |          |
| J-I    | 0 / 1485                  | -28.0                | -28.0 0.36 (1)  | 10.00 |                           |               |          |
| I-Q    | 0 / 1485                  | -28.0                | -28.0 0.54 (1)  | 10.00 |                           |               |          |
| Q-G    | 0 / 1485                  | -28.0                | -28.0 0.54 (1)  | 10.00 |                           |               |          |
| G-H    | 0 / 0                     | -155.4               | -155.4 0.06 (1) | 10.00 |                           |               |          |

**DESIGN CRITERIA**

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

**SPECIFIED LOADS:**

TOP CH. LL = 30.0 PSF  
DL = 15.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 62.5 PSF

SPACING = 24.0 IN. G.C.

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.0012

\*\*\* NON STANDARD GIRDER \*\*\*  
ADDT. USER-DEFINED LOADS APPLIED TO LOADCASE(S): 1,2

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-08  
- TPO 2011

(65% OF 39.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")  
ALLOWABLE DEFL.(TL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CANTILEVER DEFLECTION:  
ALLOWABLE DEFL.(LL) = L/120 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")  
ALLOWABLE DEFL.(TL) = L/120 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CS: TC=0.39/1.00 (E-F-1), BC=0.55/1.00 (J-L-1), WB=0.42/1.00 (C-L-1), SS=0.42/1.00 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 0.50  
FLAT ROOF FACTOR = 0.75

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 = 616 354 1867 822 2284 1656



DRWG NO. TAM 12449-18  
STRUCTURAL  
COMPONENT ONLY

CONTINUED ON PAGE 2

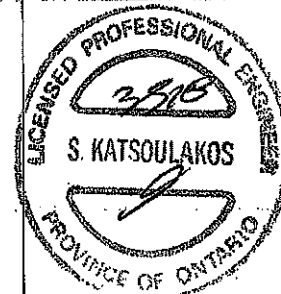


|                           |                          |                      |                 |                          |          |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------|----------|
| JOB NAME<br><b>292720</b> | TRUSS NAME<br><b>T13</b> | QUANTITY<br><b>7</b> | PLY<br><b>1</b> | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------|----------|

Tamarack Roof Truss, Burlington

Version 6.200 S Jan 6 2016 MiTek Industries, Inc. Mon Mar 5 15:36:25 2018 Page 2  
ID:bpmCISm7RE0NFeeNPP6sy48LI-up5gmK7lqql9eX VlgKcTTQCorzV NNO09UJzdxg

PLATE PLACEMENT TOL. = 0.250 inches  
PLATE ROTATION TOL. = 5.0 Deg.  
JSI GRIP= 0.89 (M) (INPUT = 0.80)  
JSI METAL= 0.51 (K) (INPUT = 1.00)



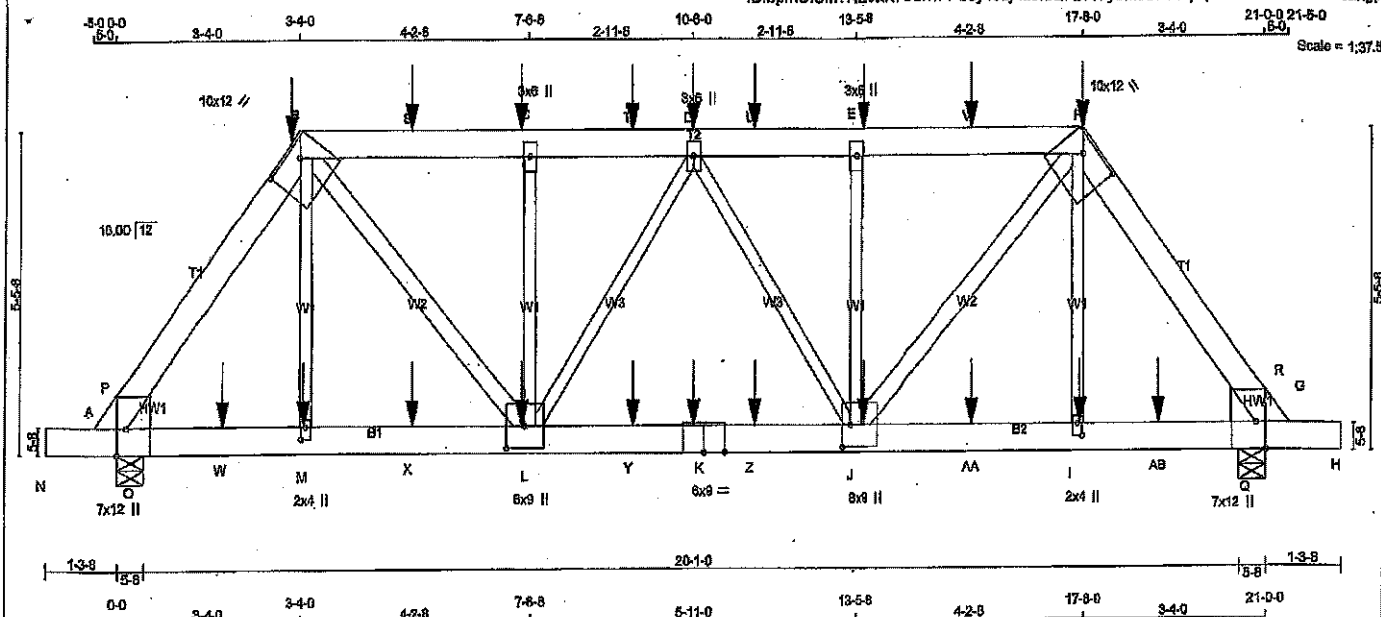
DWG NO. TAM 12149-18  
STRUCTURAL  
COMPONENT ONLY

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 292720   | T13Z       | 1        | 1   | TRUSS DESC. |          |

Remarck Roof Truss, Burlington

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| LUMBER   | N.L.G.A. RULES | SIZE | LUMBER | DESCR. |
|----------|----------------|------|--------|--------|
| A - B    | 2x6            | DRY  | No.2   | SPF    |
| B - F    | 2x6            | DRY  | No.2   | SPF    |
| F - G    | 2x6            | DRY  | No.2   | SPF    |
| N - K    | 2x6            | DRY  | No.2   | SPF    |
| K - H    | 2x6            | DRY  | No.2   | SPF    |
| ALL WEBS | 2x3            | DRY  | No.2   | SPF    |
| EXCEPT   |                |      |        |        |
| B - L    | 2x4            | DRY  | No.2   | SPF    |
| J - F    | 2x4            | DRY  | No.2   | SPF    |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT TYPE    | PLATES | W    | LEN  | Y    | X    |
|------------|--------|------|------|------|------|
| A - TBMH1+ | MT20   | 7.0  | 12.0 | Edge | 1.75 |
| B - TTWW-h | MT20   | 10.0 | 12.0 | 2.75 | 7.25 |
| C - TMW-h  | MT20   | 3.0  | 8.0  |      |      |
| D - TMW-h  | MT20   | 3.0  | 8.0  |      |      |
| E - TMW-h  | MT20   | 3.0  | 8.0  |      |      |
| F - TTWW-h | MT20   | 10.0 | 12.0 | 2.75 | 7.25 |
| G - TBMH1+ | MT20   | 7.0  | 12.0 | Edge | 1.75 |
| I - BMW-h  | MT20   | 2.0  | 4.0  | 2.50 | 1.00 |
| J - BMW-h  | MT20   | 8.0  | 8.0  | 4.80 | 1.75 |
| K - BS4    | MT20   | 6.0  | 8.0  |      |      |
| L - BMW-h  | MT20   | 8.0  | 8.0  | 4.50 | 3.75 |
| M - BMW-h  | MT20   | 2.0  | 4.0  | 2.50 | 1.00 |

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

#### HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 187.0 lbs FACTORED DOWN AT 3-4-0, 45.3 lbs FACTORED DOWN AT 5-4-12, 45.3 lbs FACTORED DOWN AT 7-4-12, 45.3 lbs FACTORED DOWN AT 9-4-12, 45.3 lbs FACTORED DOWN AT 10-6-0, 45.3 lbs FACTORED DOWN AT 12-4-12, 45.3 lbs FACTORED DOWN AT 13-7-4, AND 45.3 lbs FACTORED DOWN AT 15-7-4, AND 187.0 lbs FACTORED DOWN AT 17-8-0 ON TOP CHORD, AND 14.4 lbs FACTORED DOWN AND 3.9 lbs FACTORED UP AT 1-11-4, 23.0 lbs FACTORED DOWN AT 3-4-12, 23.0 lbs FACTORED DOWN AT 5-4-12, 23.0 lbs FACTORED DOWN AT 7-4-12, 23.0 lbs FACTORED DOWN AT 9-4-12, 23.0 lbs FACTORED DOWN AT 10-6-0, 23.0 lbs FACTORED DOWN AT 11-7-4, 23.0 lbs FACTORED DOWN AT 13-7-4, 23.0 lbs FACTORED DOWN AT 15-7-4, AND 23.0 lbs FACTORED DOWN AT 17-4, AND 14.4 lbs FACTORED DOWN AND 3.9 lbs FACTORED UP AT 18-0-12 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

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING

#### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REORD BRG | HEEL WEDGE |
|----|-------------------------|---------------------------------|-----------|-----------|------------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ      | UPLIFT     |
| A  | 2785                    | 0                               | 2785      | 0         | 5-8        |
| G  | 2785                    | 0                               | 2785      | 0         | 5-8        |

#### UNFACTORED REACTIONS

| JT | COMBINED | SNOW   | LIVE  | PERM.LIVE | WIND | DEAD  | SOIL |
|----|----------|--------|-------|-----------|------|-------|------|
| A  | 2164     | 1207/0 | 284/0 | 0/0       | 0/0  | 662/0 | 0/0  |
| G  | 2164     | 1207/0 | 284/0 | 0/0       | 0/0  | 662/0 | 0/0  |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. FURLIN SPACING = 3.65 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 (PL) | MAX. UNBRACED LENGTH (L) | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (L) |
|--------|---------|---------------------------|--------------------------|--------------------------|-------|-------|---------------------------|--------------------------|
| FR-TO  |         |                           |                          |                          | FR-TO |       |                           |                          |
| A-P    | -2804/0 | -127.4                    | -127.4                   | 0.15 (1)                 | 4.30  | M-B   | 0/302                     | 0.10 (3)                 |
| P-B    | -3037/0 | -127.4                    | -127.4                   | 0.28 (1)                 | 4.02  | B-L   | 0/1787                    | 0.42 (1)                 |
| B-S    | -2987/0 | -200.3                    | -200.3                   | 0.46 (1)                 | 3.93  | L-C   | -662/0                    | 0.48 (1)                 |
| S-C    | -2987/0 | -200.3                    | -200.3                   | 0.48 (1)                 | 3.93  | J-E   | -662/0                    | 0.48 (1)                 |
| C-T    | -2988/0 | -200.3                    | -200.3                   | 0.35 (1)                 | 3.88  | J-F   | 0/1787                    | 0.42 (1)                 |
| T-D    | -2988/0 | -200.3                    | -200.3                   | 0.35 (1)                 | 3.88  | I-F   | 0/302                     | 0.10 (3)                 |
| D-U    | -2988/0 | -200.3                    | -200.3                   | 0.35 (1)                 | 3.87  | L-D   | -345/0                    | 0.26 (1)                 |
| U-E    | -2988/0 | -200.3                    | -200.3                   | 0.35 (1)                 | 3.87  | D-J   | -345/0                    | 0.26 (1)                 |
| E-V    | -2988/0 | -200.3                    | -200.3                   | 0.46 (1)                 | 3.83  | Q-P   | -584/0                    | 0.00 (1)                 |
| V-F    | -2988/0 | -200.3                    | -200.3                   | 0.46 (1)                 | 3.83  | Q-R   | -584/0                    | 0.00 (1)                 |
| F-R    | -3037/0 | -127.4                    | -127.4                   | 0.28 (1)                 | 4.02  |       |                           |                          |
| R-G    | -2804/0 | -127.4                    | -127.4                   | 0.15 (1)                 | 4.30  |       |                           |                          |

| CHORDS | MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PL) | MAX. UNBRACED LENGTH (L) | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (L) |
|--------|--------|---------------------------|--------------------------|--------------------------|-------|-------|---------------------------|--------------------------|
| FR-TO  |        |                           |                          |                          | FR-TO |       |                           |                          |
| N-A    | 0/0    | -155.4                    | -155.4                   | 0.08 (1)                 | 10.00 |       |                           |                          |
| A-O    | 0/1813 | -28.0                     | -28.0                    | 0.82 (1)                 | 10.00 |       |                           |                          |
| O-W    | 0/1813 | -28.0                     | -28.0                    | 0.82 (1)                 | 10.00 |       |                           |                          |
| W-M    | 0/1813 | -28.0                     | -28.0                    | 0.82 (1)                 | 10.00 |       |                           |                          |
| M-X    | 0/1819 | -28.0                     | -28.0                    | 0.41 (1)                 | 10.00 |       |                           |                          |
| X-L    | 0/1819 | -28.0                     | -28.0                    | 0.41 (1)                 | 10.00 |       |                           |                          |
| L-Y    | 0/3143 | -28.0                     | -28.0                    | 0.68 (1)                 | 10.00 |       |                           |                          |
| Y-K    | 0/3143 | -28.0                     | -28.0                    | 0.68 (1)                 | 10.00 |       |                           |                          |
| K-Z    | 0/3143 | -28.0                     | -28.0                    | 0.68 (1)                 | 10.00 |       |                           |                          |
| Z-J    | 0/3143 | -28.0                     | -28.0                    | 0.68 (1)                 | 10.00 |       |                           |                          |
| J-AA   | 0/1820 | -28.0                     | -28.0                    | 0.41 (1)                 | 10.00 |       |                           |                          |
| AA-I   | 0/1820 | -28.0                     | -28.0                    | 0.41 (1)                 | 10.00 |       |                           |                          |
| I-AB   | 0/1814 | -28.0                     | -28.0                    | 0.82 (1)                 | 10.00 |       |                           |                          |
| AB-Q   | 0/1814 | -28.0                     | -28.0                    | 0.82 (1)                 | 10.00 |       |                           |                          |
| Q-G    | 0/1814 | -28.0                     | -28.0                    | 0.82 (1)                 | 10.00 |       |                           |                          |
| G-H    | 0/0    | -155.4                    | -155.4                   | 0.08 (1)                 | 10.00 |       |                           |                          |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1  | MAX. | MAX+ | FACE | DIR. | TOTAL |
|----|--------|------|------|------|------|------|-------|
| B  | 3-4-0  | -187 | -187 | -    | BACK | VERT | TOTAL |
| C  | 7-4-12 | -45  | -45  | -    | BACK | VERT | TOTAL |
| D  | 10-6-0 | -45  | -45  | -    | BACK | VERT | TOTAL |
| E  | 13-7-4 | -45  | -45  | -    | BACK | VERT | TOTAL |
| F  | 17-8-0 | -187 | -187 | -    | BACK | VERT | TOTAL |
| I  | 17-7-4 | -20  | -20  | -    | BACK | VERT | TOTAL |
| J  | 13-7-4 | -20  | -20  | -    | BACK | VERT | TOTAL |

#### DESIGN CRITERIA

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

#### SPECIFIED LOADS:

TOP CH. LL = 30.0 PSF  
CL = 15.0 PSF  
BOT CH. LL = 10.5 PSF  
CL = 7.0 PSF  
TOTAL LOAD = 62.5 PSF

SPACING = 24.0 IN. O.C.

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

\*\*\* NON STANDARD GIRDER \*\*\*  
ADDT. USER-DEFINED LOADS APPLIED TO LOADCASE(S): 1,2

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 066-09  
- TPIC 2011

65% OF 39.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.73")  
CALCULATED VERT. DEFL. (LL) = L/899 (0.07")  
ALLOWABLE DEFL. (TL) = L/360 (0.73")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.12")

CANTILEVER DEFLECTION:  
ALLOWABLE DEFL. (LL) = L/120 (0.19")  
CALCULATED VERT. DEFL. (LL) = L/899 (0.07")  
ALLOWABLE DEFL. (TL) = L/120 (0.19")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.07")

CSI: TC=0.48/1.00 (E-F), BC=0.88/1.00 (J-L), WB=0.48/1.00 (C-L), SS=0.45/1.00 (B-C-I)

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

COMPANION LIVE LOAD FACTOR = 0.50  
FLAT ROOF FACTOR = 0.75

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 818 354 1687 822 2284 1656

DWG NO. TAM 1150  
STRUCTURAL  
COMPONENT ONLY

CONTINUED ON PAGE 2

|          |            |          |     |             |          |
|----------|------------|----------|-----|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 292720   | T13Z       | 1        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

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ID: bpmCISm7RE0kNFearNPP6sy48LI-M0IC27LeT7y9m0SkYCavtp0dsc6f1xeXc2I10Izdkgp

FACTORED CONCENTRATED LOADS (LBS)

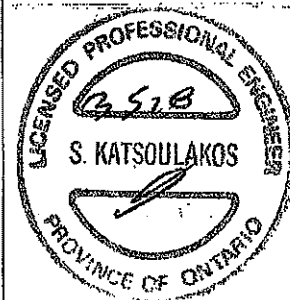
| JT | LOC.    | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE  |
|----|---------|-----|------|------|------|------|-------|
| K  | 10-0-0  | -20 | -23  | —    | BACK | VERT | TOTAL |
| L  | 7-4-12  | -20 | -23  | —    | BACK | VERT | TOTAL |
| M  | 3-4-12  | -20 | -23  | —    | BACK | VERT | TOTAL |
| S  | 5-4-12  | -45 | -45  | —    | BACK | VERT | TOTAL |
| T  | 9-4-12  | -45 | -45  | —    | BACK | VERT | TOTAL |
| U  | 11-7-4  | -45 | -45  | —    | BACK | VERT | TOTAL |
| V  | 15-7-4  | -45 | -45  | —    | BACK | VERT | TOTAL |
| W  | 1-11-4  | 4   | -14  | 4    | BACK | VERT | TOTAL |
| X  | 5-4-12  | -20 | -23  | —    | BACK | VERT | TOTAL |
| Y  | 9-4-12  | -20 | -23  | —    | BACK | VERT | TOTAL |
| Z  | 11-7-4  | -20 | -23  | —    | BACK | VERT | TOTAL |
| AA | 15-7-4  | -20 | -23  | —    | BACK | VERT | TOTAL |
| AB | 19-0-12 | 4   | -14  | 4    | BACK | VERT | TOTAL |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.69 (M) (INPUT = 0.80)

JSI METAL = 0.63 (K) (INPUT = 1.00)



DWG NO. TAM/150-08  
STRUCTURAL  
COMPONENT ONLY

[illegible]

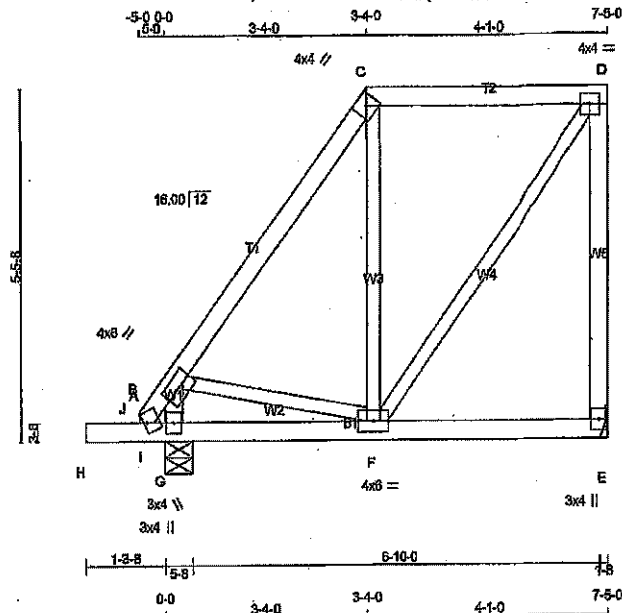
| JOB NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TRUSS NAME | QUANTITY  | PLY | JOB DESC.   | DRWG NO. |                 |       |         |       |       |       |         |         |         |              |          |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|-----|-------------|----------|-----------------|-------|---------|-------|-------|-------|---------|---------|---------|--------------|----------|-----------|
| 292720                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | T13Z2      | 1         | 1   | TRUSS DESC. |          |                 |       |         |       |       |       |         |         |         |              |          |           |
| <p>Version 8.200 5 Jan 6 2018 Mitek Industries, Inc. Mon Mar 5 16:50:26 2018 Page 2</p> <p>ID:bpmCISm?RE0kNFearNPP6sy48LI-M0fC27LeT7y9m0SKYCvtp0cVc4xIvsXc2II0Izdxxp</p>                                                                                                                                                                                                                                                                                                                                             |            |           |     |             |          |                 |       |         |       |       |       |         |         |         |              |          |           |
| <p>Tamarack Roof Truss, Burlington</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |           |     |             |          |                 |       |         |       |       |       |         |         |         |              |          |           |
| <p>NAIL VALUES</p> <table border="1"> <thead> <tr> <th>PLATE GRIP(DRY)</th> <th>SHEAR</th> <th>SECTION</th> </tr> <tr> <th>(PSI)</th> <th>(PLI)</th> <th>(PLI)</th> </tr> </thead> <tbody> <tr> <td>MAX MIN</td> <td>MAX MIN</td> <td>MAX MIN</td> </tr> <tr> <td>MT20 618 354</td> <td>1687 822</td> <td>2284 1656</td> </tr> </tbody> </table> <p>PLATE PLACEMENT TOL. = 0.250 inches</p> <p>PLATE ROTATION TOL. = 5.0 Deg.</p> <p>JSI GRIP= 0.69 (M) (INPUT = 0.80)</p> <p>JSI METAL= 0.76 (K) (INPUT = 1.00)</p> |            |           |     |             |          | PLATE GRIP(DRY) | SHEAR | SECTION | (PSI) | (PLI) | (PLI) | MAX MIN | MAX MIN | MAX MIN | MT20 618 354 | 1687 822 | 2284 1656 |
| PLATE GRIP(DRY)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SHEAR      | SECTION   |     |             |          |                 |       |         |       |       |       |         |         |         |              |          |           |
| (PSI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (PLI)      | (PLI)     |     |             |          |                 |       |         |       |       |       |         |         |         |              |          |           |
| MAX MIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MAX MIN    | MAX MIN   |     |             |          |                 |       |         |       |       |       |         |         |         |              |          |           |
| MT20 618 354                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1687 822   | 2284 1656 |     |             |          |                 |       |         |       |       |       |         |         |         |              |          |           |
| <p>4518</p> <p>S. KATSOULAKOS</p> <p>PROVINCE OF ONTARIO</p> <p>DRWG NO. TAM 12151-18</p> <p>STRUCTURAL COMPONENT ONLY</p>                                                                                                                                                                                                                                                                                                                                                                                           |            |           |     |             |          |                 |       |         |       |       |       |         |         |         |              |          |           |

|          |            |          |     |             |          |
|----------|------------|----------|-----|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 292720   | T14        | 2        | 1   | TRUSS DESC. |          |

Tamareck Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 40 = 79 lb

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

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| A  | TBMm   | MT20   | 3.0 | 4.0 |      | Edge |
| B  | TBMV-t | MT20   | 4.0 | 6.0 | 2.00 | 1.75 |
| C  | TTW-t  | MT20   | 4.0 | 4.0 |      |      |
| D  | TBMV-t | MT20   | 4.0 | 4.0 |      |      |
| E  | BMMV-t | MT20   | 3.0 | 4.0 |      |      |
| F  | BMMV-t | MT20   | 4.0 | 6.0 |      |      |
| G  | BMMV-t | MT20   | 3.0 | 4.0 |      |      |

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

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

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING.

#### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| E  | 775                     | 0                               | 775       | 0        |
| G  | 877                     | 0                               | 877       | 0        |

#### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED | MAX MIN. COMPONENT REACTIONS | SNOW    | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|--------------------|------------------------------|---------|-------|------------|-------|---------|-------|
| E  | 593                | 359 / 0                      | 78 / 0  | 0 / 0 | 0 / 0      | 0 / 0 | 158 / 0 | 0 / 0 |
| G  | 694                | 361 / 0                      | 108 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 225 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               | WEBS  |                           |               |          |
|--------|---------------------------|---------------------------|---------------|-------|---------------------------|---------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS1 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |          |
| FR-TO  |                           | FROM TO                   | LENGTH        | FR-TO |                           |               |          |
| A-J    | 0 / 135                   | -127.4 -127.4             | 0.11 (1)      | 10.00 | F-C                       | -237 / 34     | 0.11 (1) |
| J-B    | 0 / 137                   | -127.4 -127.4             | 0.25 (1)      | 10.00 | F-D                       | 0 / 404       | 0.10 (1) |
| B-C    | -481 / 0                  | -127.4 -127.4             | 0.25 (1)      | 6.25  | B-F                       | 0 / 158       | 0.04 (1) |
| C-D    | -244 / 0                  | -200.3 -200.3             | 0.63 (1)      | 6.25  | I-J                       | -84 / 10      | 0.00 (1) |
| E-D    | -728 / 0                  | 0.0 0.0                   | 0.39 (1)      | 7.81  |                           |               |          |
| G-B    | -888 / 0                  | 0.0 0.0                   | 0.10 (1)      | 7.81  |                           |               |          |
| H-A    | 0 / 0                     | -155.4 -155.4             | 0.09 (1)      | 10.00 |                           |               |          |
| A-I    | 0 / 99                    | -28.0 -28.0               | 0.11 (1)      | 10.00 |                           |               |          |
| I-G    | 0 / 99                    | -28.0 -28.0               | 0.09 (1)      | 10.00 |                           |               |          |
| G-F    | 0 / 99                    | -28.0 -28.0               | 0.13 (3)      | 10.00 |                           |               |          |
| F-E    | 0 / 0                     | -28.0 -28.0               | 0.13 (3)      | 10.00 |                           |               |          |

#### DESIGN CRITERIA

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

#### SPECIFIED LOADS:

|               |               |
|---------------|---------------|
| TOP CH.       | LL = 30.0 PSF |
| DL = 15.0 PSF |               |
| BOT CH.       | LL = 10.5 PSF |
| DL = 7.0 PSF  |               |
| TOTAL LOAD    | = 62.5 PSF    |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

\*\*\* NON STANDARD GIRDER \*\*\*  
ADDTL USER-DEFINED LOADS APPLIED TO LOADCASE(S): 1,2

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

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

#### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 99.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 90.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.25")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")  
ALLOWABLE DEFL. (TL) = L/360 (0.25")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.02")

#### CANTILEVER DEFLECTION:

ALLOWABLE DEFL. (LL) = L/177 (0.19")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")  
ALLOWABLE DEFL. (TL) = L/177 (0.19")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.01")

CS1: TC=0.63/1.00 (C-D:1), BC=0.13/1.00 (F-G:3),  
WB=0.11/1.00 (C-F:1), SS=0.35/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

#### NAIL VALUES

| PLATE GRIP (DRY) | SHEAR   | SECTION |
|------------------|---------|---------|
| (PSI)            | (PLI)   | (PLI)   |
| MAX MIN          | MAX MIN | MAX MIN |
| MT20             | 354     | 1887    |
| 822              | 822     | 2284    |
| 1656             |         |         |

DWG NO. TAM 12/52-08  
STRUCTURAL  
COMPONENT ONLY

CONTINUED ON PAGE 2

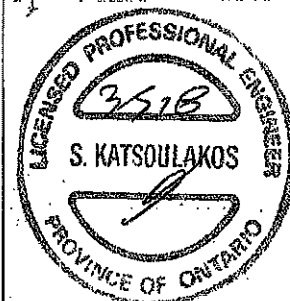


| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 292720   | T14        | 2        | 1   | TRUSS DESC. |          |

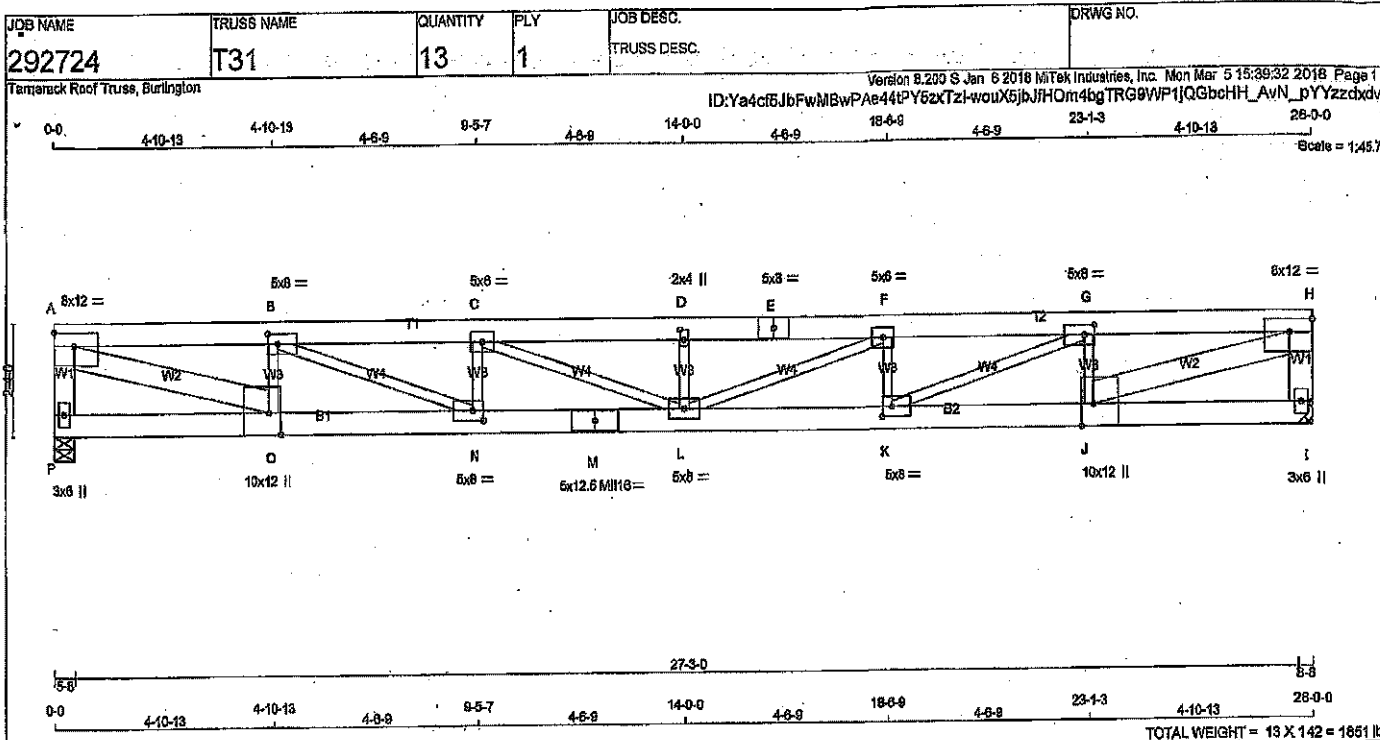
Tamarack Roof Truss, Burlington

Version 6.200 S Jan 6 2018 Mitek Industries, Inc. Mon Mar 5 15:36:26 2018 Page 2  
ID:bpmCISm7REdkNFeeNPP6sy48LI-M0IC27LeT7y9m0SKYCavtp0bTcEq14Xc2H0Izdxxg

PLATE PLACEMENT TOL. = 0.250 inches  
PLATE ROTATION TOL. = 5.0 Deg.  
JSI GRIP= 0.51 (F) (INPUT = 0.90 )  
JSI METAL= 0.20 (B) (INPUT = 1.00 )

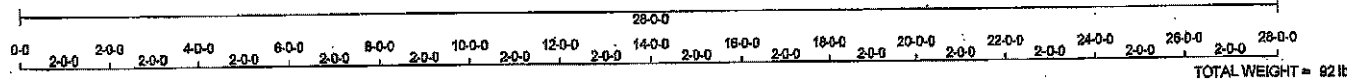
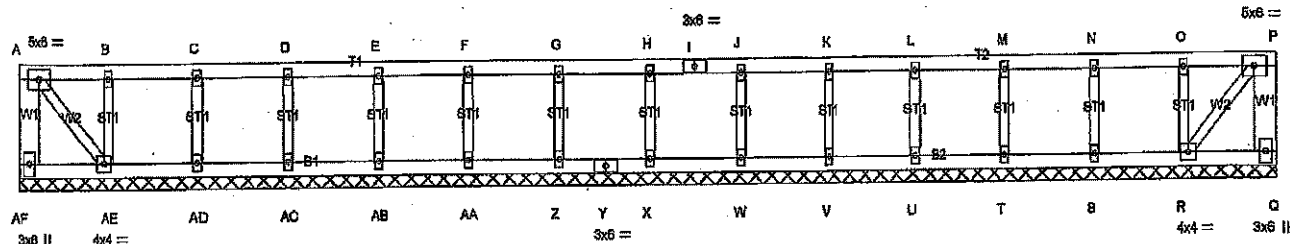


DRWG NO. TAM 1252-13  
STRUCTURAL  
COMPONENT ONLY





Version 6.200 S Jan 6 2016 MITek Industries, Inc. Mon Mar 5 15:39:31 2016 Page 1  
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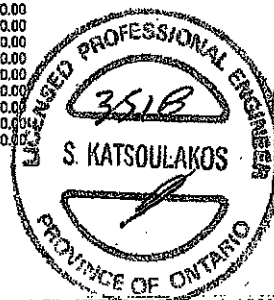


DWG NO. TAM 1262-1  
STRUCTURAL  
COMPONENT ONLY

| CHORDS |                           |                           |                |                       | WEBBS |                           |                |  |  |
|--------|---------------------------|---------------------------|----------------|-----------------------|-------|---------------------------|----------------|--|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | LOAD CSl (LBS) | MAX. UNBRAC CSl (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSl (LBS) |  |  |
| FR-TO  |                           | FROM TO                   |                | LENGTH                | FR-TO |                           |                |  |  |
| AFA    | -98/0                     | 0.0                       | 0.0            | 0.01 (1)              | X-H   | -255/0                    | 0.05 (1)       |  |  |
| A-B    | 0/4                       | -127.4                    | -127.4         | 0.09 (1)              | R-O   | -296/0                    | 0.08 (1)       |  |  |
| B-C    | 0/4                       | -127.4                    | -127.4         | 0.09 (1)              | S-N   | -248/0                    | 0.05 (1)       |  |  |
| C-D    | 0/4                       | -127.4                    | -127.4         | 0.08 (1)              | T-M   | -256/0                    | 0.08 (1)       |  |  |
| D-E    | 0/4                       | -127.4                    | -127.4         | 0.08 (1)              | U-L   | -254/0                    | 0.08 (1)       |  |  |
| E-F    | 0/4                       | -127.4                    | -127.4         | 0.08 (1)              | V-K   | -255/0                    | 0.08 (1)       |  |  |
| F-G    | 0/4                       | -127.4                    | -127.4         | 0.08 (1)              | W-J   | -255/0                    | 0.05 (1)       |  |  |
| G-H    | 0/4                       | -127.4                    | -127.4         | 0.08 (1)              | AE-B  | -288/0                    | 0.08 (1)       |  |  |
| H-I    | 0/4                       | -127.4                    | -127.4         | 0.08 (1)              | AD-C  | -249/0                    | 0.05 (1)       |  |  |
| I-J    | 0/4                       | -127.4                    | -127.4         | 0.08 (1)              | AC-D  | -259/0                    | 0.08 (1)       |  |  |
| J-K    | 0/4                       | -127.4                    | -127.4         | 0.08 (1)              | AE-E  | -254/0                    | 0.05 (1)       |  |  |
| K-L    | 0/4                       | -127.4                    | -127.4         | 0.08 (1)              | AA-F  | -255/0                    | 0.06 (1)       |  |  |
| L-M    | 0/4                       | -127.4                    | -127.4         | 0.08 (1)              | Z-G   | -255/0                    | 0.05 (1)       |  |  |
| M-N    | 0/4                       | -127.4                    | -127.4         | 0.08 (1)              | A-AE  | -5/0                      | 0.00 (1)       |  |  |
| N-O    | 0/4                       | -127.4                    | -127.4         | 0.09 (1)              | R-P   | -5/0                      | 0.00 (1)       |  |  |
| O-P    | 0/4                       | -127.4                    | -127.4         | 0.09 (1)              |       |                           |                |  |  |
| Q-F    | -98/0                     | 0.0                       | 0.0            | 0.01 (1)              |       |                           |                |  |  |
|        |                           |                           |                | 7.81                  |       |                           |                |  |  |
| AF-AE  | 0/0                       | -28.0                     | -28.0          | 0.04 (3)              |       |                           |                |  |  |
| AE-AD  | -4/0                      | -28.0                     | -28.0          | 0.04 (3)              |       |                           |                |  |  |
| AD-AC  | -4/0                      | -28.0                     | -28.0          | 0.04 (3)              |       |                           |                |  |  |
| AC-AB  | -4/0                      | -28.0                     | -28.0          | 0.04 (3)              |       |                           |                |  |  |
| AB-AA  | -4/0                      | -28.0                     | -28.0          | 0.04 (3)              |       |                           |                |  |  |
| AA-Z   | -4/0                      | -28.0                     | -28.0          | 0.04 (3)              |       |                           |                |  |  |
| Z-Y    | -4/0                      | -28.0                     | -28.0          | 0.04 (3)              |       |                           |                |  |  |
| Y-X    | -4/0                      | -28.0                     | -28.0          | 0.04 (3)              |       |                           |                |  |  |
| X-W    | -4/0                      | -28.0                     | -28.0          | 0.04 (3)              |       |                           |                |  |  |
| W-V    | -4/0                      | -28.0                     | -28.0          | 0.04 (3)              |       |                           |                |  |  |
| V-U    | -4/0                      | -28.0                     | -28.0          | 0.04 (3)              |       |                           |                |  |  |
| U-T    | -4/0                      | -28.0                     | -28.0          | 0.04 (3)              |       |                           |                |  |  |
| T-S    | -4/0                      | -28.0                     | -28.0          | 0.04 (3)              |       |                           |                |  |  |
| S-R    | -4/0                      | -28.0                     | -28.0          | 0.04 (3)              |       |                           |                |  |  |
| R-Q    | 0/0                       | -28.0                     | -28.0          | 0.04 (3)              |       |                           |                |  |  |

REGISTERED PROFESSIONAL

3518

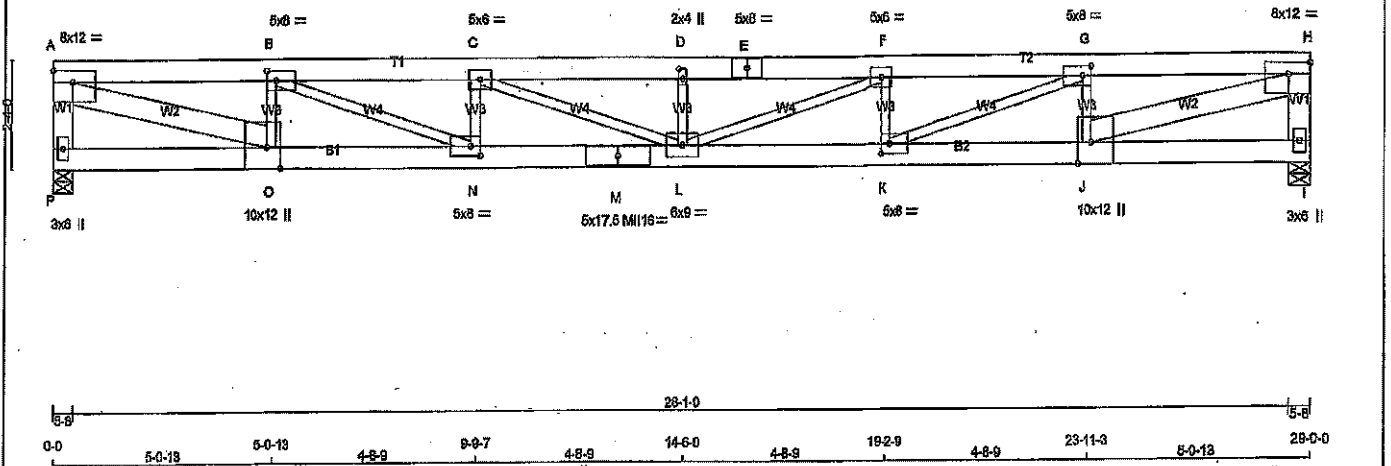


|                           |                          |                      |                 |                          |          |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------|----------|
| JOB NAME<br><b>292724</b> | TRUSS NAME<br><b>T32</b> | QUANTITY<br><b>7</b> | PLY<br><b>1</b> | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.200 S Jan 5 2018 Mitel Industries, Inc. Mon Mar 5 15:39:32 2018 Page 1  
ID:Ya4cf5JbFwMBwPAe44PY6zXTZ-wouX5bjfHOM4bgTRG9WPF1Q1TbbH2KvN\_pYYzdxv

0-0 5-0-13 5-0-13 4-8-9 9-9-7 4-8-9 14-6-0 4-8-9 19-2-9 4-8-9 23-11-3 5-0-13 29-0-0  
Scale = 1:47.4



| LUMBER            |      |        |            |     |
|-------------------|------|--------|------------|-----|
| N. L. G. A. RULES |      |        |            |     |
| CHORDS            | SIZE | LUMBER | DESCR.     |     |
| P - A             | 2x8  | DRY    | No.2       | SPF |
| A - E             | 2x8  | DRY    | 2100F 1.8E | SPF |
| E - H             | 2x8  | DRY    | 2100F 1.8E | SPF |
| I - H             | 2x8  | DRY    | No.2       | SPF |
| P - M             | 2x8  | DRY    | 2100F 1.8E | SPF |
| M - I             | 2x8  | DRY    | 2100F 1.8E | SPF |
| ALL WEBS          | 2x8  | DRY    | No.2       | SPF |
| EXCEPT            |      |        |            |     |
| J - H             | 2x8  | DRY    | No.2       | SPF |
| A - O             | 2x8  | DRY    | No.2       | SPF |

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |        |        |      |                |
|-----------------------------|--------|--------|------|----------------|
| JT                          | TYPE   | PLATES | W    | LEN Y X        |
| A                           | TAMW-1 | MT20   | 8.0  | 12.0 3.00 Edge |
| B                           | TAMW-1 | MT20   | 3.0  | 8.0 2.50 2.50  |
| C                           | TAMW-1 | MT20   | 5.0  | 6.0            |
| D                           | TAMW-1 | MT20   | 2.0  | 4.0 2.90 1.00  |
| E                           | TS-1   | MT20   | 5.0  | 8.0            |
| F                           | TAMW-1 | MT20   | 5.0  | 8.0            |
| G                           | TAMW-1 | MT20   | 5.0  | 8.0 2.50 2.50  |
| H                           | TAMW-1 | MT20   | 8.0  | 12.0 3.00 Edge |
| I                           | BMV-1  | MT20   | 3.0  | 6.0            |
| J                           | BMVW-1 | MT20   | 10.0 | 12.0 Edge 3.75 |
| K                           | BMVW-1 | MT20   | 5.0  | 8.0 2.50 2.50  |
| L                           | BMVW-1 | MT20   | 6.0  | 9.0            |
| M                           | BS-1   | MT18   | 5.0  | 17.5           |
| N                           | BMVW-1 | MT20   | 5.0  | 8.0 2.50 2.50  |
| O                           | BMVW-1 | MT20   | 10.0 | 12.0 Edge 3.75 |
| P                           | BMV-1  | 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

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING

| FACTORED       |      | MAXIMUM FACTORED |      | INPUT |        | REQ'D |       |
|----------------|------|------------------|------|-------|--------|-------|-------|
| GROSS REACTION |      | GROSS REACTION   |      | BRG   |        | BRG   |       |
| JT             | VERT | HORZ             | DOWN | HORZ  | UPLIFT | IN-SX | IN-SX |
| P              | 2253 | 0                | 2253 | 0     | 5-8    | 5-8   | 5-8   |
| I              | 2253 | 0                | 2253 | 0     | 5-8    | 5-8   | 5-8   |

| UNFACTORED REACTIONS |          |                               |       |            |      |       |      |
|----------------------|----------|-------------------------------|-------|------------|------|-------|------|
| 1ST CASE             |          | MAX. MIN. COMPONENT REACTIONS |       |            |      |       |      |
| JT                   | COMBINED | SNOW                          | LIVE  | PERM. LIVE | WIND | DEAD  | SOIL |
| P                    | 1812     | 889/0                         | 305/0 | 0/0        | 0/0  | 889/0 | 0/0  |
| I                    | 1812     | 889/0                         | 305/0 | 0/0        | 0/0  | 889/0 | 0/0  |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.05 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING  
TOTAL LOAD CASES: (4)

| CHORDS |         | WEBS  |         |
|--------|---------|-------|---------|
| MEMB.  | FORCE   | MEMB. | FORCE   |
| FR-TO  | FROM TO | FR-TO | FROM TO |
| P-A    | -2181/0 | J-H   | 0/5489  |
| A-B    | -5151/0 | A-O   | 0/5493  |
| B-C    | -7693/0 | J-G   | -1734/0 |
| C-D    | -8825/0 | O-B   | -1734/0 |
| D-E    | -8825/0 | K-G   | 0/2738  |
| E-F    | -8825/0 | B-N   | 0/2738  |
| F-G    | -7693/0 | K-F   | -914/0  |
| G-H    | -5151/0 | N-C   | -914/0  |
| H-I    | -2181/0 | L-F   | 0/1003  |
|        |         | C-L   | 0/1003  |
|        |         | L-D   | -811/0  |
| P-O    | 0/0     |       |         |
| O-N    | 0/5151  |       |         |
| N-M    | 0/7693  |       |         |
| M-L    | 0/7693  |       |         |
| L-K    | 0/7693  |       |         |
| K-J    | 0/5151  |       |         |
| J-I    | 0/0     |       |         |

DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 30.0 PSF  
DL = 15.0 PSF  
BOT CH. LL = 10.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 62.5 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

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

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

(55 % OF 39.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(LL) = L/868 (0.41")  
ALLOWABLE DEFL.(TL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(TL) = L/449 (0.78")

CSI: TC=0.44/1.00 (D-P-1), BC=0.61/1.00 (K-L-1),

WB=0.66/1.00 (H-J-1), SI=0.30/1.00 (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 = 0.50

FLAT ROOF FACTOR = 0.75

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

| NAIL VALUES            |               |
|------------------------|---------------|
| PLATE GRIP(DRY)        | SHEAR SECTION |
| (PSI)                  | (PLI)         |
| MAX MIN MAX MIN        | MAX MIN       |
| MT20 618 354 1687 822  | 2284 1656     |
| MT18 473 276 2341 1245 | 4454 1656     |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRP= 0.90 (R) (INPUT = 0.90)

JSI METAL= 0.98 (O) (INPUT = 1.00)



DRWG NO. TAM 12154-08  
STRUCTURAL  
COMPONENT ONLY

JOB NAME

292724

TRUSS NAME

T37

QUANTITY

7

PLY

1

JOB DESC.

TRUSS DESC.

DRWG NO.

Tamarack Roof Truss, Burlington

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ID:Ya4cf6JbFWMBwPAa44tPY52xTzi-wouX6jbtHcm4bgTRG9WPtjLShcSH7gvN\_pYYzdxdv

0-0

5-3-7

5-3-7

4-11-3

10-2-8

5-3-7

15-6-0

Scale = 1:25.0

A

5x8 =

W1

W2

B

2x4 ||

W3

W2

C

4x4 =

W3

W2

D

5x8 =

W1

H

3x6 ||

G

4x12 =

F

4x8 =

E

3x6 ||

14-9-0

13-8

0-0

5-3-7

5-3-7

4-11-3

10-2-8

5-3-7

15-6-0

TOTAL WEIGHT = 7 X 57 = 397 lb

LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

H - A

2x6

DRY

No.2

SPF

A - D

2x4

DRY

No.2

SPF

E - D

2x6

DRY

No.2

SPF

H - E

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT

TYPE

PLATES

W

LEN

Y

X

A

TMAVW-1

MT20

5.0

8.0

2.50

3.00

B

TMAVW-1

MT20

2.0

4.0

C

TMAVW-1

MT20

4.0

4.0

D

TMAVW-1

MT20

5.0

8.0

2.50

3.00

E

BMV1+p

MT20

3.0

6.0

F

BMVWV-4

MT20

4.0

9.0

2.00

3.00

G

BMVWV-4

MT20

4.0

12.0

2.00

5.50

H

BMV1+p

MT20

3.0

6.0

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

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING

BEARINGS

FACTORED

MAXIMUM FACTORED

INPUT

REQD

GROSS REACTION

GROSS REACTION

BRG

BRG

JT

VERT

HORZ

DOWN

HORZ

UPLIFT

IN-SX

IN-SX

H

1204

0

1204

0

0

5-8

6-8

E

1204

0

1204

0

0

HANGER BY OTHERS

MIN. SEAT SIZE: 3-8

UNFACTORED REACTIONS

1ST LOASE

MAX/MIN. COMPONENT REACTIONS

JT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

H

968

465 / 0

163 / 0

0 / 0

0 / 0

341 / 0

0 / 0

E

968

465 / 0

163 / 0

0 / 0

0 / 0

341 / 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 = 3.18 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

MAX. FACTORED

FACTORED

WEBS

MAX. FACTORED

MEMB.

FORCE

VERT. LOAD

LC1

MAX.

MAX.

MEMB.

FORCE

MAX.

CSI (LC)

UNBRAC

FR-TO

FROM

TO

LENGTH

FR-TO

FROM

TO

LENGTH

H-A

-1137 / 0

0.0

0.0

0.12 (1)

7.81

F-D

-0 / 2381

0.71 (1)

A-B

-2219 / 0

-127.4

-127.4

0.78 (1)

3.16

A-G

0 / 2379

0.71 (1)

B-C

-2219 / 0

-127.4

-127.4

0.73 (1)

3.19

F-C

-707 / 0

0.15 (1)

C-D

-2221 / 0

-127.4

-127.4

0.78 (1)

3.16

G-B

-707 / 0

0.15 (1)

E-D

-1138 / 0

0.0

0.0

0.12 (1)

7.81

G-C

-2 / 0

0.00 (1)

H-G

0 / 0

-28.0

-28.0

0.26 (3)

10.00

G-F

0 / 2221

-28.0

-28.0

0.56 (1)

10.00

F-E

0 / 0

-28.0

-28.0

0.26 (3)

10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 30.0 PSF

DL = 15.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 82.5 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, EBCB 2012, ABC 2014

- CSA 086-09

- TPC 2011

(55 % OF 39.3 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.52")

CALCULATED VERT. DEFL.(LL) = L/999 (0.10")

ALLOWABLE DEFL.(TL) = L/360 (0.52")

CALCULATED VERT. DEFL.(TL) = L/999 (0.18")

CSI: TC=0.76/1.00 (A-B:1), BC=0.56/1.00 (F-G:1), WB=0.71/1.00 (D-F:1), SB=0.41/1.00 (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 = 0.50

FLAT ROOF FACTOR = 0.75

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI)

(PL)

(PL)

MAX MIN MAX MIN MAX MIN

MT20

618

354

1667

622

2284

1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (F) (INPUT = 0.90)

JSI METAL= 0.85 (D) (INPUT = 1.00)

2418

S. KATSOUAKOS

PROVINCE OF ONTARIO

DWG NO. TAM 1255

STRUCTURAL

COMPONENT ONLY

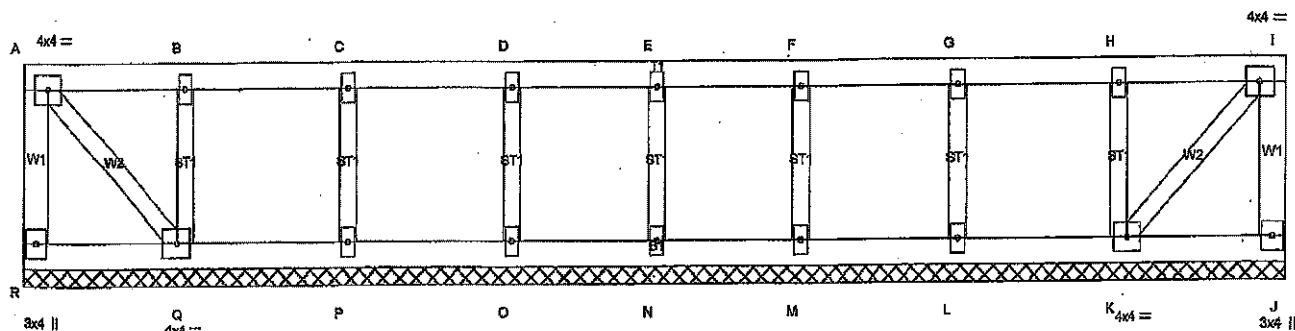
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC. | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|-----------|-------------|----------|
| 292724   | G37        | 1        | 1   |           |             |          |

Tamarack Roof Truss, Burlington

Version 8.203 S Jan 6 2018 M7ek Industries, Inc. Mon Mar 5 15:39:31 2018 Page 1

ID:Ya4cf8JbFwMBwPAe44PY6zxTzI-Rck8NaguzGvTSSHuZeHsqAK8BPjgl9K370Xzdxdw

0-0 2-0 2-0 2-0 4-0 2-0 6-0 1-9 7-9 1-9 8-8 2-0 11-8 2-0 13-8 1-8 15-8 15-8  
Scale = 1:28.3



0-0 2-0 2-0 2-0 4-0 2-0 6-0 1-9 7-9 1-9 8-8 2-0 11-8 2-0 13-8 2-0 15-8  
TOTAL WEIGHT = 63 lb

| LUMBER                | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|-----------------------|-------------------|--------|------|--------|--------|
| R - A                 | 2x4               | DRY    | No.2 | SPF    |        |
| A - I                 | 2x4               | DRY    | No.2 | SPF    |        |
| J - I                 | 2x4               | DRY    | No.2 | SPF    |        |
| R - 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 OC.

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

PROVIDE ADEQUATE DRAINAGE TO PREVENT FONDING.

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 = 10.00 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                      |                           |               | WEBS  |                      |               |          |
|--------|----------------------|---------------------------|---------------|-------|----------------------|---------------|----------|
| MEMB.  | FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LC1 (LC) | MEMB. | FACTORED FORCE (LBS) | MAX. LC1 (LC) |          |
| FR-TO  |                      | FROM TO                   |               | FR-TO |                      |               |          |
| R-A    | -93/0                | 0.0                       | 0.0 (1)       | 7.81  | N-E                  | -218/0        | 0.04 (1) |
| A-B    | 0/9                  | -127.4                    | -127.4 (1)    | 10.00 | K-H                  | -266/0        | 0.06 (1) |
| B-C    | 0/9                  | -127.4                    | -127.4 (1)    | 10.00 | L-G                  | -251/0        | 0.05 (1) |
| C-D    | 0/9                  | -127.4                    | -127.4 (1)    | 10.00 | M-F                  | -242/0        | 0.05 (1) |
| D-E    | 0/9                  | -127.4                    | -127.4 (1)    | 10.00 | Q-B                  | -266/0        | 0.06 (1) |
| E-F    | 0/9                  | -127.4                    | -127.4 (1)    | 10.00 | P-C                  | -251/0        | 0.05 (1) |
| F-G    | 0/9                  | -127.4                    | -127.4 (1)    | 10.00 | O-D                  | -242/0        | 0.05 (1) |
| G-H    | 0/9                  | -127.4                    | -127.4 (1)    | 10.00 | A-Q                  | -13/0         | 0.00 (1) |
| H-I    | 0/9                  | -127.4                    | -127.4 (1)    | 10.00 | K-I                  | -13/0         | 0.00 (1) |
| J-I    | -93/0                | 0.0                       | 0.0 (1)       | 7.81  |                      |               |          |
| R-Q    | 0/0                  | -28.0                     | -28.0 (3)     | 10.00 |                      |               |          |
| Q-P    | -9/0                 | -28.0                     | -28.0 (3)     | 10.00 |                      |               |          |
| P-O    | -9/0                 | -28.0                     | -28.0 (3)     | 10.00 |                      |               |          |
| O-N    | -9/0                 | -28.0                     | -28.0 (3)     | 10.00 |                      |               |          |
| N-M    | -9/0                 | -28.0                     | -28.0 (3)     | 10.00 |                      |               |          |
| M-L    | -9/0                 | -28.0                     | -28.0 (3)     | 10.00 |                      |               |          |
| L-K    | -9/0                 | -28.0                     | -28.0 (3)     | 10.00 |                      |               |          |
| K-J    | 0/0                  | -28.0                     | -28.0 (3)     | 10.00 |                      |               |          |

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 30.0 PSF

DL = 15.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 62.5 PSF

SPACING = 24.0 IN. C/G

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.001/2

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, CBC 2012, ABC 2014

- CSA 086-09

- TPC 2011

(65 % OF 39.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSH: TC=0.10/1.00 (B-C:1), BC=0.04/1.00 (P-Q:3), WB=0.08/1.00 (B-Q:1), SSI=0.19/1.00 (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 = 0.50  
FLAT ROOF FACTOR = 0.75

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 618 554 1687 622 2264 1656

PLATE PLACEMENT TOL. = 0.260 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.23 (K) (INPUT = 0.80)  
JSI METAL = 0.07 (I) (INPUT = 1.00)

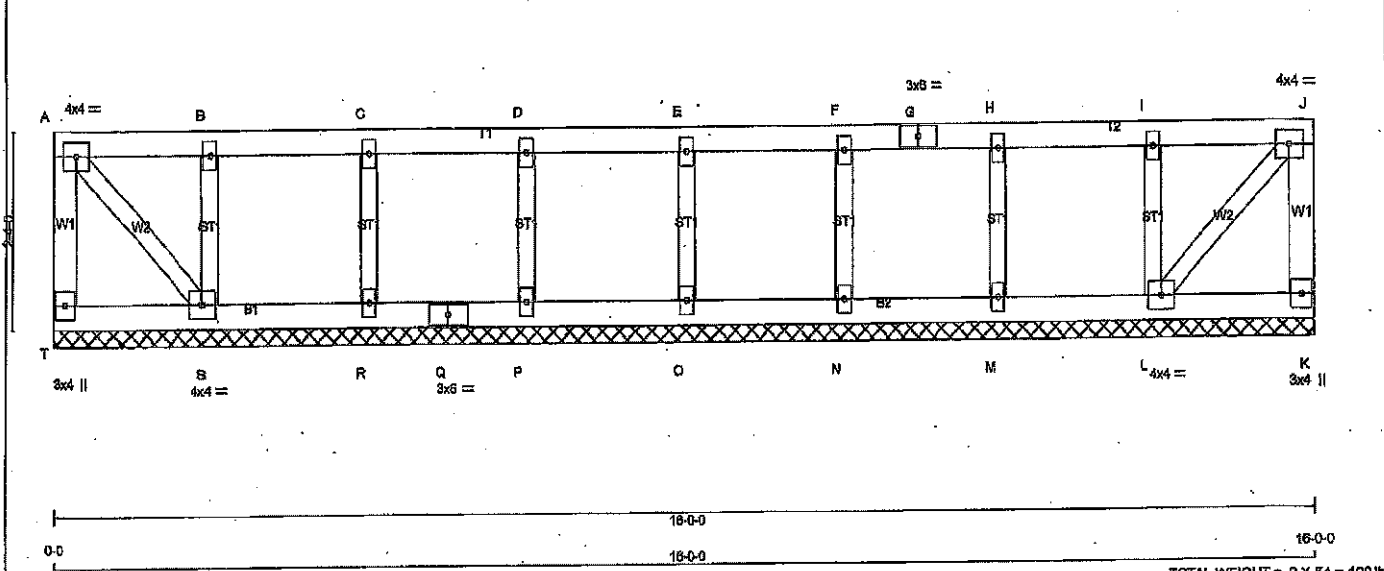


DWG NO. TAM 12463-18  
STRUCTURAL  
COMPONENT ONLY

DWG NO. TAM 12156-17  
STRUCTURAL  
COMPONENT ONLY

|                    |                   |               |          |                          |          |
|--------------------|-------------------|---------------|----------|--------------------------|----------|
| JOB NAME<br>292724 | TRUSS NAME<br>G38 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>TRUSS DESC. | DRWG NO. |
|--------------------|-------------------|---------------|----------|--------------------------|----------|

Version 8.200 S Jan 8 2018 Mitek Industries, Inc. Mon Mar 5 15:38:31 2018 Page 1  
ID:Ya4c6JbFwMBwPAe44tPY5zxTzI-RcK8tNaguzGvTS5HuZeHsqAK88Ptyjg9K370Xzdxdw  
Temareck Roof Truss, Burlington  
Scale = 1:28.1



| LUMBER                          |      |        |        |
|---------------------------------|------|--------|--------|
| N.L.G.A. RULES                  | SIZE | LUMBER | DESCR. |
| CHORDS                          |      |        |        |
| T - A                           | 2x4  | DRY    | No.2   |
| A - G                           | 2x4  | DRY    | No.2   |
| G - J                           | 2x4  | DRY    | No.2   |
| K - Q                           | 2x4  | DRY    | No.2   |
| T - Q                           | 2x4  | DRY    | No.2   |
| Q - K                           | 2x4  | DRY    | No.2   |
| ALL WEBS                        | 2x3  | DRY    | No.2   |
| ALL GABLE WEBS                  | 2x3  | DRY    | No.2   |
| DRY: SEASONED LUMBER.           |      |        |        |
| GABLE STUDS SPACED AT 2'-0" OC. |      |        |        |

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**  
**PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING**  
**BEARINGS**  
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.  
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.  
BEARING MATERIAL TO BE 8PF NO.2 OR BETTER AT JOINT(S)  
**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

**DESIGN CRITERIA**  
**SPECIFIED LOADS:**  
TOP CH. LL = 30.0 PSF  
DL = 15.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 62.5 PSF  
**SPACING = 24.0 IN. C/C**  
**LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12**  
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010  
THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2012, BCBC 2012, ABC 2014  
- CSA 088-08  
- TPIC 2011  
(55% OF 30.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD  
CSI: TO=0.10/1.00 (A-B:1), BC=0.04/1.00 (L-M:2), WB=0.09/1.00 (B-S:1), SI=0.18/1.00 (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 = 0.50  
FLAT ROOF FACTOR = 0.75

| PLATES (table in inches) |          |      |     |     |
|--------------------------|----------|------|-----|-----|
| JT TYPE                  | PLATES   | W    | LEN | Y X |
| A                        | TMVW-1   | MT20 | 4.0 | 4.0 |
| B, C, D, E, F, H, I      |          |      |     |     |
| B                        | TMVW-w   | MT20 | 2.0 | 4.0 |
| G                        | TS-1     | MT20 | 3.0 | 6.0 |
| J                        | TMVW-H   | MT20 | 4.0 | 4.0 |
| K                        | BMV1+p   | MT20 | 3.0 | 4.0 |
| L                        | BMVW-1-t | MT20 | 4.0 | 4.0 |
| M, N, O, P, R            |          |      |     |     |
| M                        | BMV1+w   | MT20 | 2.0 | 4.0 |
| Q                        | BS-1     | MT20 | 3.0 | 6.0 |
| S                        | BMVW-1-t | MT20 | 4.0 | 4.0 |
| T                        | BMV1+p   | MT20 | 3.0 | 4.0 |

LOADING

TOTAL LOAD CASES: (4)

CHORDS

WEBS

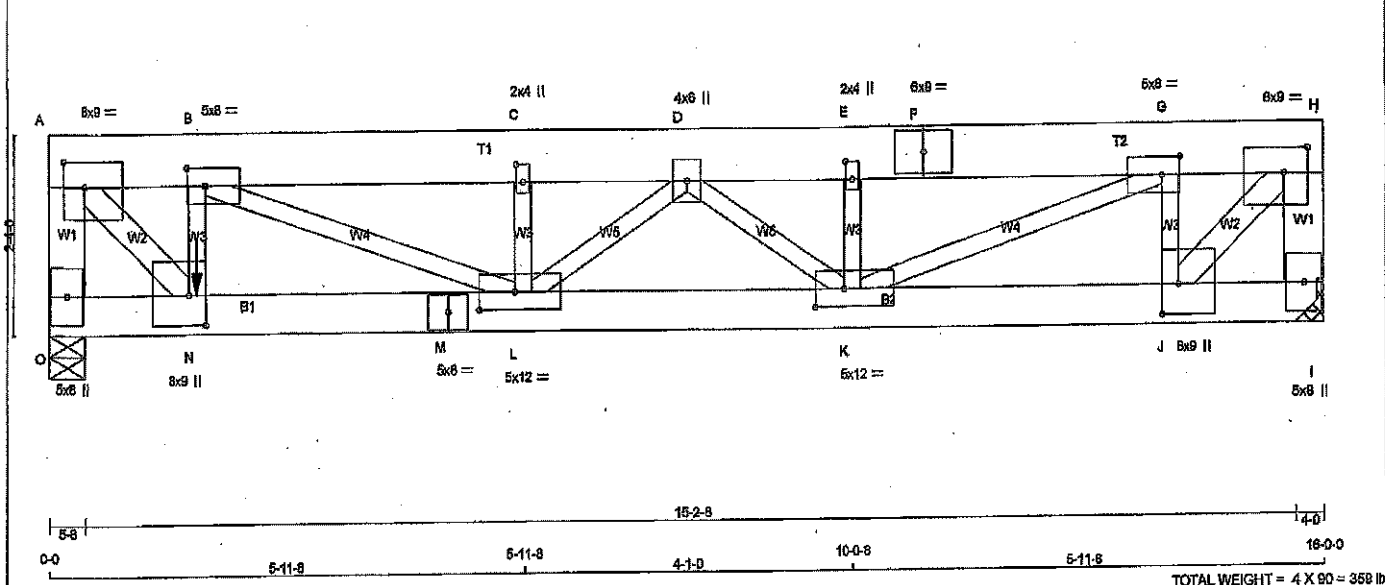
| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | LC1 (PLF) | MAX CS1 (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX CS1 (LC) |
|-------|---------------------------|---------------------------|-----------|--------------|--------------------|-------|---------------------------|--------------|
| FR-TO |                           | FROM                      | TO        |              | FR-TO              |       |                           |              |
| T-A   | -93/0                     | 0.0                       | 0.0       | 0.01 (1)     | 7.81               | S-B   | -286/0                    | 0.08 (1)     |
| A-B   | 0/0                       | -127.4                    | -127.4    | 0.10 (1)     | 10.00              | R-C   | -248/0                    | 0.05 (1)     |
| B-C   | 0/0                       | -127.4                    | -127.4    | 0.10 (1)     | 10.00              | P-D   | -258/0                    | 0.05 (1)     |
| C-D   | 0/0                       | -127.4                    | -127.4    | 0.08 (1)     | 10.00              | O-E   | -254/0                    | 0.05 (1)     |
| D-E   | 0/0                       | -127.4                    | -127.4    | 0.08 (1)     | 10.00              | N-F   | -258/0                    | 0.05 (1)     |
| E-F   | 0/0                       | -127.4                    | -127.4    | 0.08 (1)     | 10.00              | M-H   | -248/0                    | 0.05 (1)     |
| F-G   | 0/0                       | -127.4                    | -127.4    | 0.08 (1)     | 10.00              | L-I   | -286/0                    | 0.08 (1)     |
| G-H   | 0/0                       | -127.4                    | -127.4    | 0.08 (1)     | 10.00              | A-S   | -12/0                     | 0.00 (1)     |
| H-I   | 0/0                       | -127.4                    | -127.4    | 0.10 (1)     | 10.00              | L-J   | -12/0                     | 0.00 (1)     |
| I-J   | 0/0                       | -127.4                    | -127.4    | 0.10 (1)     | 10.00              |       |                           |              |
| K-J   | -93/0                     | 0.0                       | 0.0       | 0.01 (1)     | 7.81               |       |                           |              |
| T-S   | 0/0                       | -28.0                     | -28.0     | 0.04 (3)     | 10.00              |       |                           |              |
| S-R   | -9/0                      | -28.0                     | -28.0     | 0.04 (3)     | 10.00              |       |                           |              |
| R-Q   | -9/0                      | -28.0                     | -28.0     | 0.04 (3)     | 10.00              |       |                           |              |
| Q-P   | -9/0                      | -28.0                     | -28.0     | 0.04 (3)     | 10.00              |       |                           |              |
| P-O   | -9/0                      | -28.0                     | -28.0     | 0.04 (3)     | 10.00              |       |                           |              |
| O-N   | -9/0                      | -28.0                     | -28.0     | 0.04 (3)     | 10.00              |       |                           |              |
| N-M   | -9/0                      | -28.0                     | -28.0     | 0.04 (3)     | 10.00              |       |                           |              |
| M-L   | -9/0                      | -28.0                     | -28.0     | 0.04 (3)     | 10.00              |       |                           |              |
| L-K   | 0/0                       | -28.0                     | -28.0     | 0.04 (3)     | 10.00              |       |                           |              |

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 822 2284 1658  
PLATE PLACEMENT TOL. = 0.250 inches  
PLATE ROTATION TOL. = 5.0 Deg.  
JSI GRIP= 0.23 (S) (INPUT = 0.80)  
JSI METAL= 0.07 (S) (INPUT = 1.00)



DRWG NO. TAM 12164-18  
STRUCTURAL  
COMPONENT ONLY

|                                                                                                                                                              |                          |                      |                 |                                 |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|---------------------------------|----------|
| JOB NAME<br><b>292724</b>                                                                                                                                    | TRUSS NAME<br><b>T39</b> | QUANTITY<br><b>2</b> | PLY<br><b>2</b> | JOB DESC.<br><b>TRUSS DESC.</b> | DRWG NO. |
| Version 8.200 S Jan 8 2016 Mitek Industries, Inc. Mon Mar 5 16:39:33 2018 Page 1<br>ID:Ya4cf5JbFwMBwPAe44tPY6zxTzI-O_SvI3bxQaWclFg?_glyFGbX_h0Sw2ceY54Qzdxdu |                          |                      |                 |                                 |          |
| Tamarack Roof Truss, Burlington                                                                                                                              |                          |                      |                 |                                 |          |



| LUMBER            | CHORDS | SIZE | DRY        | NO.2 | DESCR. |
|-------------------|--------|------|------------|------|--------|
| N. L. G. A. RULES |        |      |            |      |        |
| D - A             | 2x6    | DRY  | No.2       | SPF  |        |
| A - F             | 2x6    | DRY  | No.2       | SPF  |        |
| F - H             | 2x6    | DRY  | No.2       | SPF  |        |
| I - H             | 2x6    | DRY  | No.2       | SPF  |        |
| O - M             | 2x6    | DRY  | 2100F 1.8E | SPF  |        |
| M - I             | 2x6    | DRY  | 2100F 1.8E | SPF  |        |
| ALL WEBS          | 2x6    | DRY  | No.2       | SPF  |        |
| EXCEPT            |        |      |            |      |        |
| A - N             | 2x4    | DRY  | 2100F 1.8E | SPF  |        |
| J - H             | 2x4    | DRY  | 2100F 1.8E | SPF  |        |

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                            | SURFACE SPACING (IN) | LOAD (PLF) |
|-----------------------------------------|----------------------|------------|
| TOP CHORDS: (0.122"x3") SPIRAL NAILS    |                      |            |
| O-A                                     | 2                    | 12         |
| H-I                                     | 2                    | 12         |
| F-A                                     | 2                    | 9          |
| F-H                                     | 2                    | 9          |
| BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS |                      |            |
| O-M                                     | 2                    | 12         |
| M-I                                     | 2                    | 12         |
| WEBS: (0.122"x3") SPIRAL NAILS          |                      |            |
| B-N                                     | 1                    | 4          |
| 2x6                                     | 1                    | 4          |
| K-G                                     | 1                    | 6          |
| L-B                                     | 1                    | 6          |
| K-E                                     | 1                    | 6          |
| L-C                                     | 1                    | 6          |
| L-D                                     | 1                    | 6          |
| D-K                                     | 1                    | 6          |
| 2x4                                     | 1                    | 6          |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 30 INCH NAILS.

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

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

| PLATES (table is in inches) | JT. TYPE | PLATES | W   | LEN  | Y    | X    |
|-----------------------------|----------|--------|-----|------|------|------|
| A                           | TMW-4    | MT20   | 8.0 | 9.0  | 3.50 | 3.25 |
| B                           | TMW-4    | MT20   | 8.0 | 8.0  | 2.50 | 2.75 |
| C                           | TMW-4    | MT20   | 2.0 | 4.0  | 2.50 | 1.00 |
| D                           | TMW-4    | MT20   | 4.0 | 6.0  |      |      |
| E                           | TMW-4    | MT20   | 2.0 | 4.0  | 2.50 | 1.00 |
| F                           | TS-4     | MT20   | 8.0 | 9.0  |      |      |
| G                           | TMW-4    | MT20   | 5.0 | 8.0  | 2.50 | 2.75 |
| H                           | TMW-4    | MT20   | 8.0 | 9.0  | 3.50 | 3.25 |
| I                           | BMV-4    | MT20   | 5.0 | 8.0  |      |      |
| J                           | BMV-4    | MT20   | 8.0 | 9.0  | 4.25 | 2.50 |
| K                           | BMV-4    | MT20   | 5.0 | 12.0 | 2.50 | 4.25 |
| L                           | BMV-4    | MT20   | 5.0 | 12.0 | 2.50 | 5.25 |
| M                           | BS-1     | MT20   | 5.0 | 6.0  |      |      |

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

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING.

| FACTORED |       |         | MAXIMUM FACTORED |         |        | INPUT              | REQD  |
|----------|-------|---------|------------------|---------|--------|--------------------|-------|
| JT       | GROSS | REACTON | GROSS            | REACTON | UPLIFT | BRG                | BRG   |
|          | VERT  | HORZ    | DOWN             | HORZ    |        | IN-SX              | IN-SX |
| O        | 4214  | 0       | 4214             | 0       | 0      | 6-8                | 5-8   |
| I        | 4178  | 0       | 4178             | 0       | 0      | HANGER BY OTHERS   |       |
|          |       |         |                  |         |        | MIN. SEAT SIZE: 40 |       |

| UNFACTORED REACTIONS |          |                               |         |           |       |          |       |
|----------------------|----------|-------------------------------|---------|-----------|-------|----------|-------|
| 1ST CASE             |          | MAX./MIN. COMPONENT REACTIONS |         |           |       |          |       |
| JT                   | COMBINED | SNOW                          | LIVE    | PERM.LIVE | WIND  | DEAD     | SOIL  |
| O                    | 3377     | 1635 / 0                      | 554 / 0 | 0 / 0     | 0 / 0 | 1188 / 0 | 0 / 0 |
| I                    | 3356     | 1612 / 0                      | 552 / 0 | 0 / 0     | 0 / 0 | 1182 / 0 | 0 / 0 |

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.76 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 | MAX. FACTORED | FACTORED         | VERT. LOAD | LC1      | MAX   | MAX.  | UNBRAC      | MEMB.    | MAX. FACTORED |
|--------|---------------|------------------|------------|----------|-------|-------|-------------|----------|---------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD (PLF) | CS1 (LC)   | LENGTH   | FR-TO | MEMB. | FORCE (LBS) | MAX      | CS1 (LC)      |
| FR-TO  |               | FROM TO          |            |          |       |       |             |          |               |
| O-A    | -4267 / 0     | 0.0              | 0.0        | 0.21 (1) | 6.18  | N-B   | -3366 / 0   | 0.36 (1) |               |
| A-B    | -4669 / 0     | -127.4           | -127.4     | 0.25 (1) | 5.07  | J-G   | -3673 / 0   | 0.41 (1) |               |
| B-C    | -8471 / 0     | -489.8           | -489.8     | 0.42 (1) | 3.76  | A-N   | 0 / 8475    | 0.39 (1) |               |
| C-D    | -8471 / 0     | -489.8           | -489.8     | 0.28 (1) | 3.94  | J-H   | 0 / 6041    | 0.33 (1) |               |
| D-E    | -8318 / 0     | -489.8           | -489.8     | 0.28 (1) | 3.97  | K-G   | 0 / 4931    | 0.71 (1) |               |
| E-F    | -8318 / 0     | -489.8           | -489.8     | 0.41 (1) | 3.61  | B-L   | 0 / 4156    | 0.69 (1) |               |
| F-G    | -8318 / 0     | -489.8           | -489.8     | 0.41 (1) | 3.61  | K-E   | -1108 / 0   | 0.12 (1) |               |
| G-H    | -4856 / 0     | -489.8           | -489.8     | 0.28 (1) | 5.17  | L-C   | -1146 / 0   | 0.12 (1) |               |
| H-I    | -4249 / 0     | 0.0              | 0.0        | 0.21 (1) | 6.18  | L-D   | -808 / 0    | 0.10 (1) |               |
|        |               |                  |            |          |       | D-K   | -1012 / 0   | 0.18 (1) |               |
| O-N    | 0 / 0         | -28.0            | -28.0      | 0.03 (3) | 10.00 |       |             |          |               |
| N-M    | 0 / 4669      | -28.0            | -28.0      | 0.28 (1) | 10.00 |       |             |          |               |
| M-L    | 0 / 4669      | -28.0            | -28.0      | 0.28 (1) | 10.00 |       |             |          |               |
| L-K    | 0 / 8077      | -28.0            | -28.0      | 0.43 (1) | 10.00 |       |             |          |               |
| K-J    | 0 / 4356      | -28.0            | -28.0      | 0.25 (1) | 10.00 |       |             |          |               |
| J-I    | 0 / 0         | -28.0            | -28.0      | 0.05 (1) | 10.00 |       |             |          |               |

FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1  | MAX. | MAX+ | FACE | DIR.  |
|----|--------|------|------|------|------|-------|
| N  | 1-10-8 | -827 | -827 | -    | BACK | VERT. |



# DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 89.0 PSF

DL = 15.0 PSF

BOY CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 82.5 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

GIRDER TYPE: CSdGirder

START DISTANCE = 1-10-8

START SPAN CARRIED = 11-3-0

END DISTANCE = 16-0-0

END SPAN CARRIED = 11-3-0

END WALL WIDTH = 0-0

APPLIED TO FRONT SIDE OF TOP CHORD.

- ADDTL LOADS BASED ON 55 % OF GSL.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2012, CBC 2012, ABC 2014

- CSA 088-09

- TPIC 2011

(55 % OF 89.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.58")

CALCULATED VERT. DEFL. (LL) = L/999 (0.09")

ALLOWABLE DEFL. (TL) = L/360 (0.58")

CALCULATED VERT. DEFL. (TL) = L/999 (0.18")

CS1: TO=0.42/1.00 (B-C:1), BC=0.42/1.00 (K-L:1), WB=0.71/1.00 (G-K:1), SS=0.50/1.00 (E-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 = 0.50

FLAT ROOF FACTOR = 0.75

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

NAIL VALUES

| PLATE | GRIP (DRY) | SHEAR | SECTION |
|-------|------------|-------|---------|
|       | (F3)       | (F3)  | (F3)    |
| MT20  | 818        | 354   | 1567    |
|       | 822        | 2264  | 1666    |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.63 (B) (INPUT = 0.60)

JSI METAL= 0.82 (M) (INPUT = 1.00)

DRWG NO. TAM 2157-18

STRUCTURAL

COMPONENT ONLY

CONTINUED ON PAGE 2

|          |            |          |     |             |          |
|----------|------------|----------|-----|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 292724   | T39        | 2        | 2   | TRUSS DESC. |          |

Tamerack Roof Truss, Burlington

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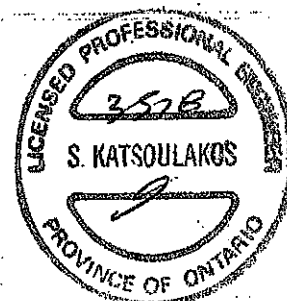
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**PLATES (table in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| N  | BMVW+1 | MT20   | 8.0 | 9.0 | 4.25 | 2.60 |
| O  | BMV+1p | MT20   | 6.0 | 8.0 |      |      |

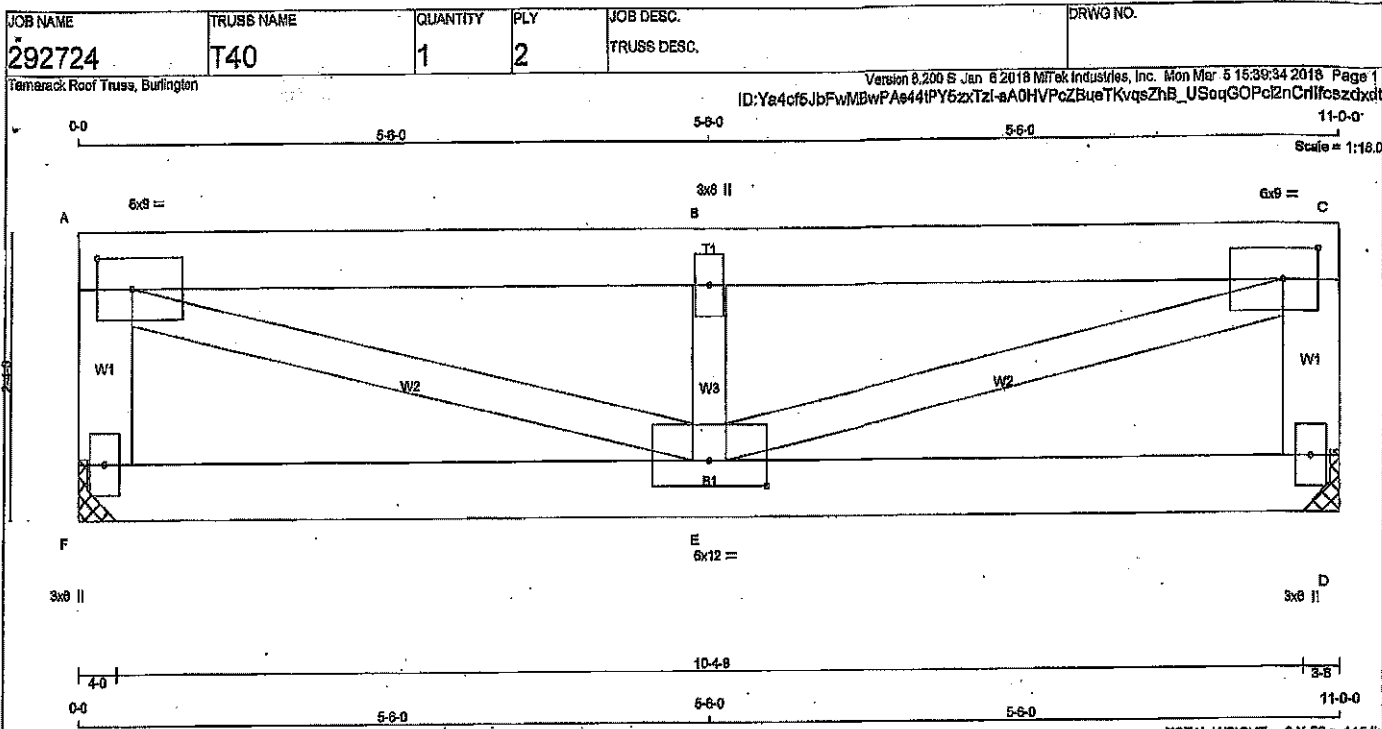
**HANGERS NOTES**

- 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 826.7 lbs FACTORED DOWN AT 1-10-B ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



DWG NO. TAM 12157-18  
STRUCTURAL  
COMPONENT ONLY





**LUMBER**

N. L. G. A. RULES

| CHORDS | SIZE | LUMBER | DESCR.   |
|--------|------|--------|----------|
| F - A  | 2x6  | DRY    | No.2 SPF |
| A - C  | 2x6  | DRY    | No.2 SPF |
| D - C  | 2x6  | DRY    | No.2 SPF |
| F - D  | 2x6  | DRY    | No.2 SPF |

ALL WEBS 2x4 DRY No.2 SPF

DRY: SEASONED LUMBER

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD (PLF) |
|------------------------------------------|----------------------|------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |            |
| F - A 2                                  | 12                   | TOP        |
| A - C 2                                  | 12                   | TOP        |
| C - D 2                                  | 12                   | TOP        |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |            |
| F - D 2                                  | 12                   | TOP        |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |            |
| 2x4 1                                    | 8                    |            |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN  | Y    | X    |
|----|--------|--------|-----|------|------|------|
| A  | TMWVH  | MT20   | 6.0 | 9.0  | 3.00 | 3.50 |
| B  | TMWVH  | MT20   | 3.0 | 6.0  |      |      |
| C  | TMWVH  | MT20   | 6.0 | 9.0  | 3.00 | 3.50 |
| D  | BMV1+p | MT20   | 3.0 | 6.0  |      |      |
| E  | BMVWWH | MT20   | 6.0 | 12.0 | 2.50 | 6.00 |
| F  | BMV1+p | MT20   | 3.0 | 6.0  |      |      |

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

**PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING**

**BEARINGS**

| FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|-------------------------|---------------------------------|-----------|----------|
| JT VERT                 | DOWN                            | IN-SX     | IN-SX    |
| F 855                   | 0                               | 0         | 0        |
| D 855                   | 0                               | 0         | 0        |

HANGER BY OTHERS MIN. SEAT SIZE: 4-0  
HANGER BY OTHERS MIN. SEAT SIZE: 3-6

**UNFACTORED REACTIONS**

| 1ST CASE    | MAX/MIN. COMPONENT REACTIONS        |
|-------------|-------------------------------------|
| JT COMBINED | SNOW LIVE PERM. LIVE WIND DEAD SCIL |
| F 687       | 330/0 116/0 0/0 0/0 242/0 0/0       |
| D 687       | 330/0 116/0 0/0 0/0 242/0 0/0       |

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                                | WEBS  |                           |                                |       |
|--------|---------------------------|---------------------------|--------------------------------|-------|---------------------------|--------------------------------|-------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC1) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC1) | MEMB. |
| FR-TO  |                           | FROM TO                   |                                | FR-TO |                           |                                |       |
| F-A    | -776/0                    | 0.0 0.0 0.04(1)           | 7.81                           | A-E   | 0/1522                    | 0.18(1)                        |       |
| A-B    | -1441/0                   | -127.4 -127.4 0.17(1)     | 6.25                           | E-B   | -893/0                    | 0.08(1)                        |       |
| B-C    | -1441/0                   | -127.4 -127.4 0.17(1)     | 6.25                           | E-C   | 0/1522                    | 0.18(1)                        |       |
| D-C    | -776/0                    | 0.0 0.0 0.04(1)           | 7.81                           |       |                           |                                |       |
| F-E    | 0/0                       | -28.0 -28.0 0.07(3)       | 10.00                          |       |                           |                                |       |
| E-D    | 0/0                       | -28.0 -28.0 0.07(3)       | 10.00                          |       |                           |                                |       |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

TOP CH. LL = 30.0 PSF  
DL = 15.0 PSF

BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF

TOTAL LOAD = 62.5 PSF

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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

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

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

(55% OF 33.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.17/1.00 (B-C:1), BC=0.07/1.00 (E-F:3),  
WB=0.16/1.00 (A-E:1), SS=0.17/1.00 (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 = 0.50  
FLAT ROOF FACTOR = 0.75

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

**NAIL VALUES**

| PLATE GRIP (DRY) | SHEAR (PS) | SECTION (PL) |
|------------------|------------|--------------|
| MAX MIN          | MAX MIN    | MAX MIN      |
| MT20             | 618 354    | 1667 822     |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.22 (E) (INPUT = 0.80)  
JSI METAL= 0.17 (C) (INPUT = 1.00)

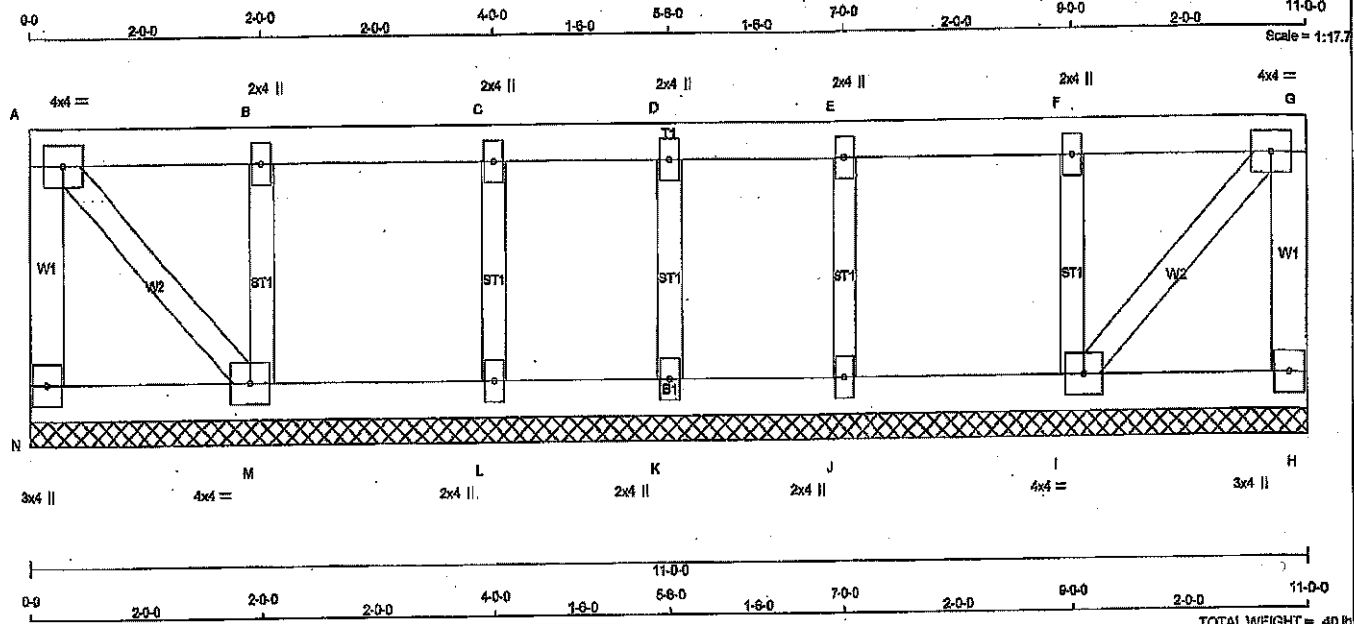


DWG NO. TAM 12158-18  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |          |
|----------|------------|----------|-----|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 292724   | G40        | 1        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

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

GABLE STUDS SPACED AT 2-0-0 OC.

| PLATES (table is in inches) |         |        |     |         |
|-----------------------------|---------|--------|-----|---------|
| JT                          | TYPE    | PLATES | W   | LEN Y X |
| A                           | TMW-1   | MT20   | 4.0 | 4.0     |
| B, C, D, E, F               |         |        |     |         |
| B                           | TMW-1w  | MT20   | 2.0 | 4.0     |
| G                           | TMW-1   | MT20   | 4.0 | 4.0     |
| H                           | BMV1+p  | MT20   | 3.0 | 4.0     |
| I                           | BMWV1-t | MT20   | 4.0 | 4.0     |
| J, K, L                     |         |        |     |         |
| J                           | BMW1+w  | MT20   | 2.0 | 4.0     |
| M                           | BMWV1-t | MT20   | 4.0 | 4.0     |
| N                           | BMV1+p  | MT20   | 3.0 | 4.0     |

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER.  
PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING.  
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 = 10.00 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. FACTORED CS (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CS (LC) |  |
| FR-TO  |                           | FROM TO                   |                       | FR-TO |                           |                       |  |
| N-A    | -60/0                     | 0.0 0.0 0.01 (1)          | 7.81                  | K-D   | -178/0                    | 0.04 (1)              |  |
| A-B    | 0/11                      | -127.4 -127.4 0.10 (1)    | 10.00                 | I-F   | -292/0                    | 0.08 (1)              |  |
| B-C    | 0/11                      | -127.4 -127.4 0.10 (1)    | 10.00                 | J-E   | -220/0                    | 0.05 (1)              |  |
| C-D    | 0/11                      | -127.4 -127.4 0.08 (1)    | 10.00                 | M-B   | -292/0                    | 0.08 (1)              |  |
| D-E    | 0/11                      | -127.4 -127.4 0.08 (1)    | 10.00                 | L-C   | -220/0                    | 0.05 (1)              |  |
| E-F    | 0/11                      | -127.4 -127.4 0.10 (1)    | 10.00                 | A-M   | -16/0                     | 0.00 (1)              |  |
| F-G    | 0/11                      | -127.4 -127.4 0.10 (1)    | 10.00                 | I-G   | -16/0                     | 0.00 (1)              |  |
| H-G    | -60/0                     | 0.0 0.0 0.01 (1)          | 7.81                  |       |                           |                       |  |
| N-M    | 0/0                       | -28.0 -28.0 0.05 (3)      | 10.00                 |       |                           |                       |  |
| M-L    | -11/0                     | -28.0 -28.0 0.05 (3)      | 6.25                  |       |                           |                       |  |
| L-K    | -11/0                     | -28.0 -28.0 0.03 (3)      | 6.25                  |       |                           |                       |  |
| K-J    | -11/0                     | -28.0 -28.0 0.03 (3)      | 8.25                  |       |                           |                       |  |
| J-I    | -11/0                     | -28.0 -28.0 0.05 (3)      | 6.25                  |       |                           |                       |  |
| I-H    | 0/0                       | -28.0 -28.0 0.05 (3)      | 10.00                 |       |                           |                       |  |

DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 30.0 PSF  
DL = 15.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 62.5 PSF

SPACING = 24.0 IN./G.C.

LOADING IN PLAT SECTION BASED ON A SLOPE OF 0.00/12

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

THIS DESIGN COMPLIES WITH:  
-PART 9 OF OSC 2012, BCBC 2012, ABC 2014  
-CSA 888-09  
-TRC 2011

(55% OF 39.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CS: TC=0.10/1.00 (E-F-1), BC=0.05/1.00 (J-K-3), WS=0.08/1.00 (F-I-1), SS=0.16/1.00 (F-G-1)

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

COMPANION LIVE LOAD FACTOR = 0.50  
FLAT ROOF FACTOR = 0.75

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(RS) (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1887 822 2284 1898

PLATE PLACEMENT TOL = 0.250 inches

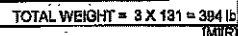
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.23 (I) (INPUT = 0.80)  
JSI METAL = 0.07 (F) (INPUT = 1.00)



DRWG NO. TAM 12165-18  
STRUCTURAL  
COMPONENT ONLY

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|                  |      |      |          |
|------------------|------|------|----------|
| SPECIFIED LOADS: |      |      |          |
| TOP CH.          | LL = | 30.0 | PSF      |
|                  | DL = | 15.0 | PSF      |
| BOT CH.          | LL = | 10.5 | PSF      |
|                  | DL = | 7.0  | PSF      |
| TOTAL LOAD       |      | =    | 62.5 PSF |

LOADING IN FLAT SECTION BASED ON A  
SLOPE OF 0.00/12

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

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.67 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.

| CHORDS | WEBS |
|--------|------|
|--------|------|

| FR-TO | FROM       | TO     | LENGTH | FR-TO    |                              |
|-------|------------|--------|--------|----------|------------------------------|
| Q-A   | -9651 / 0  | 0.0    | 0.0    | 0.30 (1) | 5.21 A-P 0 / 13665 0.46 (1)  |
| A-B   | -9804 / 0  | -127.4 | -127.4 | 0.12 (1) | 4.65 P-B -6806 / 0 0.32 (1)  |
| B-C   | -28039 / 0 | -127.4 | -127.4 | 0.38 (1) | 3.10 B-O 0 / 17308 0.68 (1)  |
| C-D   | -31562 / 0 | -127.4 | -127.4 | 0.56 (1) | 2.87 C-C -2844 / 0 0.13 (1)  |
| D-E   | -28186 / 0 | -127.4 | -127.4 | 0.45 (1) | 2.03 O-M 0 / 5984 0.43 (1)   |
| E-F   | -28168 / 0 | -127.4 | -127.4 | 0.49 (1) | 2.92 M-D 0 / 3349 0.25 (1)   |
| F-G   | -20808 / 0 | -127.4 | -127.4 | 0.24 (1) | 3.68 D-L -4050 / 0 0.23 (1)  |
| G-H   | -9151 / 0  | -127.4 | -127.4 | 0.07 (1) | 5.15 L-F 0 / 8265 0.59 (1)   |
| H-I   | -9140 / 0  | 0.0    | 0.0    | 0.28 (1) | 5.34 K-F -3981 / 0 0.19 (1)  |
|       |            |        |        |          |                              |
| Q-P   | 0 / 0      | -28.0  | -28.0  | 0.19 (1) | 10.00 K-G 0 / 12177 0.41 (1) |
| P-R   | 0 / 9804   | -28.0  | -28.0  | 0.41 (1) | 10.00 J-G -4792 / 0 0.22 (1) |
| R-S   | 0 / 9804   | -28.0  | -28.0  | 0.41 (1) | 10.00 J-H 0 / 12841 0.43 (1) |
| S-O   | 0 / 9804   | -28.0  | -28.0  | 0.41 (1) | 10.00                        |
| O-T   | 0 / 28069  | -28.0  | -28.0  | 0.92 (1) | 10.00                        |
| T-N   | 0 / 28069  | -28.0  | -28.0  | 0.80 (1) | 10.00                        |
| N-U   | 0 / 28069  | -28.0  | -28.0  | 0.80 (1) | 10.00                        |
| U-M   | 0 / 28069  | -28.0  | -28.0  | 0.80 (1) | 10.00                        |
| M-L   | 0 / 30028  | -28.0  | -28.0  | 0.77 (1) | 10.00                        |
| L-K   | 0 / 20808  | -28.0  | -28.0  | 0.57 (1) | 10.00                        |
| K-J   | 0 / 9151   | -28.0  | -28.0  | 0.26 (1) | 10.00                        |
| J-I   | 0 / 0      | -28.0  | -28.0  | 0.02 (3) | 10.00                        |

| JT | LOC     | LCI   | MAX-  | MAX+ | FACE  | VERT | TYPE  |
|----|---------|-------|-------|------|-------|------|-------|
|    | 22-8-6  | -1148 | -1148 | -    | FRONT | VERT | TOTAL |
| J  | 11-5-6  | -1148 | -1148 | -    | FRONT | VERT | TOTAL |
| M  | 2-0-12  | -1215 | -1215 | -    | FRONT | VERT | TOTAL |
| P  | 4-0-12  | -1215 | -1215 | -    | FRONT | VERT | TOTAL |
| R  | 8-0-12  | -1215 | -1215 | -    | FRONT | VERT | TOTAL |
| S  | 8-0-12  | -1215 | -1215 | -    | FRONT | VERT | TOTAL |
| T  | 10-0-12 | -1215 | -1215 | -    | FRONT | VERT | TOTAL |

ALLOWABLE DEFL.(LL) =  $L/360$  (0.82")  
 CALCULATED VERT. DEFL.(LL) =  $L/662$  (0.33")  
 ALLOWABLE DEFL.(TL) =  $L/360$  (0.82")  
 CALCULATED VERT. DEFL.(TL) =  $L/463$  (0.64")

CSI: TC=0.56/1.00 (C-D:1), BC=0.80/1.00 (M-O:1)  
WB=0.56/1.00 (F-L:1), SS=0.42/1.00 (M-O:1)

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

COMPANION LIVE LOAD FACTOR = 0.50  
FLAT ROOF FACTOR = 0.75

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

| NAIL VALUES |           |     |       |      |         |      |
|-------------|-----------|-----|-------|------|---------|------|
| PLATE       | GRIP(DRY) |     | SHEAR |      | SECTION |      |
|             | (FSI)     |     | (PLI) |      | (PLI)   |      |
|             | MAX       | MIN | MAX   | MIN  | MAX     | MIN  |
| MT20        | 818       | 354 | 1867  | 822  | 2264    | 1856 |
| M118        | 473       | 276 | 2341  | 1245 | 4454    | 1856 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.87 (A) (INPUT = 0.90)  
JSI METAL= 0.87 (O) (INPUT = 1.00)

DWG NO. TAM 12159-  
STRUCTURAL  
COMPONENT ONLY

CONTINUED ON PAGE 2

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 292724   | T41        | 1        | 3   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

Version 8.200 S Jan 6 2018 Mitek Industries, Inc. Mon Mar 5 15:59:34 2018 Page 2  
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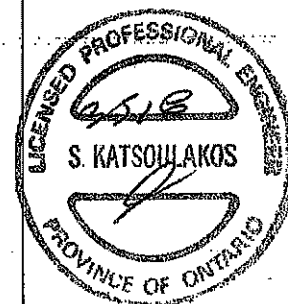
**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN  | Y    | X    |
|----|---------|--------|-----|------|------|------|
| I  | BMV1+p  | MT20   | 5.0 | 8.0  |      |      |
| J  | BMVWW-t | MT20   | 6.0 | 8.0  | 4.25 | 2.50 |
| K  | BMVWW-t | M116   | 7.0 | 12.5 | 2.50 | 3.75 |
| L  | BMVWW-t | MT20   | 7.0 | 8.0  | 4.25 | 3.50 |
| M  | BMVWW-t | MT20   | 7.0 | 8.0  | 4.25 | 3.50 |
| N  | BS-t    | M116   | 7.0 | 17.5 |      |      |
| O  | BMVWW-t | M116   | 7.0 | 12.5 | 2.50 | 3.75 |
| P  | BMVWW-t | MT20   | 8.0 | 8.0  | 4.25 | 2.50 |
| Q  | BMV1+p  | MT20   | 5.0 | 8.0  |      |      |

WB - INDICATES BLOCKING REQUIRED

**HANGERS/NOTES**

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 1215.3 lbs FACTORED DOWN AT 2-0-12, 1215.3 lbs FACTORED DOWN AT 4-0-12, 1215.3 lbs FACTORED DOWN AT 6-0-12, 1215.3 lbs FACTORED DOWN AT 8-0-12, 1215.3 lbs FACTORED DOWN AT 10-0-12, AND 4147.7 lbs FACTORED DOWN AT 11-5-8, AND 4147.7 lbs FACTORED DOWN AT 22-8-8 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

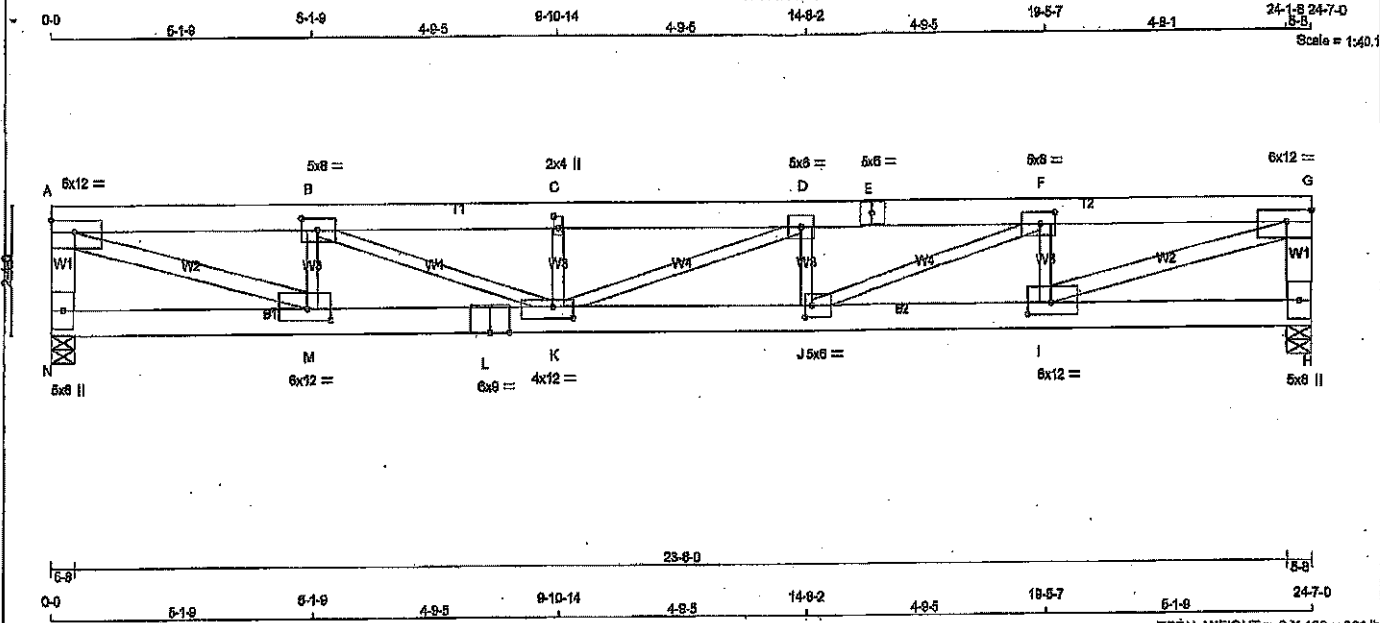


DRWG NO. TAM1 2159  
STRUCTURAL  
COMPONENT ONLY

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|----------|------------|----------|-----|-------------|----------|
| 292724   | T42        | 3        | 1   | TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

Version 8.200 8 Jan 8 2018 Mitek Industries, Inc. Mon Mar 5 15:39:35 2018 Page 1  
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| LUMBER         |      |        |            |     |
|----------------|------|--------|------------|-----|
| N.L.G.A. RULES | SIZE | LUMBER | DESCR.     |     |
| CHORDS         |      |        |            |     |
| N - A          | 2x6  | DRY    | No.2       | SPF |
| A - E          | 2x6  | DRY    | 2100F 1.8E | SPF |
| E - G          | 2x6  | DRY    | 2100F 1.8E | SPF |
| H - I          | 2x6  | DRY    | No.2       | SPF |
| N - L          | 2x6  | DRY    | 2100F 1.8E | SPF |
| L - H          | 2x6  | DRY    | 2100F 1.8E | SPF |
| ALL WEBS       | 2x3  | DRY    | No.2       | SPF |
| EXCEPT         |      |        |            |     |
| I - G          | 2x4  | DRY    | 2100F 1.8E | SPF |
| A - M          | 2x4  | DRY    | 2100F 1.8E | SPF |

| PLATES (tablets in inches) |         |        |     |                |
|----------------------------|---------|--------|-----|----------------|
| JT                         | TYPE    | PLATES | W   | LEN Y X        |
| A                          | TMVW-1  | MT20   | 8.0 | 12.0 2.50 Edge |
| B                          | TMVW-1  | MT20   | 5.0 | 8.0 2.50 3.75  |
| C                          | TMVW-1  | MT20   | 2.0 | 4.0 2.50 1.00  |
| D                          | TMVW-1  | MT20   | 5.0 | 8.0            |
| E                          | TS-1    | MT20   | 5.0 | 8.0            |
| F                          | TMVW-1  | MT20   | 6.0 | 8.0 2.50 3.50  |
| G                          | TMVW-1  | MT20   | 8.0 | 12.0 2.50 Edge |
| H                          | BMV-1+p | MT20   | 5.0 | 8.0            |
| I                          | BMVW-1  | MT20   | 8.0 | 12.0 2.50 5.50 |
| J                          | BMVW-1  | MT20   | 5.0 | 6.0 2.50 1.50  |
| K                          | BMVW-1  | MT20   | 4.0 | 12.0 2.50 4.75 |
| L                          | BS-1    | MT20   | 6.0 | 8.0            |
| M                          | BMVW-1  | MT20   | 6.0 | 12.0 2.50 5.50 |
| N                          | BMV-1+p | MT20   | 5.0 | 8.0            |

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

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

#### PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING

#### BEARINGS

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----|----------------|------------------|-------|------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT | VERT           | HORZ             | DOWN  | HORZ |
| N  | 1810           | 0                | 1810  | 0    |
| H  | 1810           | 0                | 1810  | 0    |

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN | COMPONENT REACTIONS |            |
|----|----------|---------|---------------------|------------|
|    | COMBINED | SNOW    | LIVE                | PERM. LIVE |
| N  | 1538     | 737/0   | 258/0               | 0/0        |
| H  | 1538     | 737/0   | 258/0               | 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 = 3.74 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               |                      | WEBS  |                           |               |  |  |
|--------|---------------------------|---------------------------|---------------|----------------------|-------|---------------------------|---------------|--|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS1 (LC) | MAX. UNBRAC CS1 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |  |  |
| FR-TO  |                           | FROM TO                   |               | LENGTH               | FR-TO |                           |               |  |  |
| N-A    | -1833/0                   | 0.0                       | 0.0           | 0.17 (1)             | I-G   | 0/4514                    | 0.48 (1)      |  |  |
| A-B    | -4241/0                   | -127.4                    | -127.4        | 0.22 (1)             | A-M   | 0/4516                    | 0.45 (1)      |  |  |
| B-C    | -5967/0                   | -127.4                    | -127.4        | 0.24 (1)             | I-F   | -1394/0                   | 0.27 (1)      |  |  |
| C-D    | -5967/0                   | -127.4                    | -127.4        | 0.28 (1)             | M-B   | -1393/0                   | 0.27 (1)      |  |  |
| D-E    | -5976/0                   | -127.4                    | -127.4        | 0.24 (1)             | J-F   | 0/1805                    | 0.58 (1)      |  |  |
| E-F    | -5976/0                   | -127.4                    | -127.4        | 0.24 (1)             | B-K   | 0/1854                    | 0.58 (1)      |  |  |
| F-G    | -4240/0                   | -127.4                    | -127.4        | 0.22 (1)             | J-D   | -599/0                    | 0.11 (1)      |  |  |
| H-G    | -1833/0                   | 0.0                       | 0.0           | 0.17 (1)             | K-C   | -597/0                    | 0.11 (1)      |  |  |
|        |                           |                           |               |                      | K-D   | -9/0                      | 0.01 (1)      |  |  |
| N-M    | 0/0                       | -28.0                     | -28.0         | 0.07 (3)             |       |                           |               |  |  |
| M-L    | 0/4241                    | -28.0                     | -28.0         | 0.36 (1)             |       |                           |               |  |  |
| L-K    | 0/4241                    | -28.0                     | -28.0         | 0.36 (1)             |       |                           |               |  |  |
| K-J    | 0/5976                    | -28.0                     | -28.0         | 0.48 (1)             |       |                           |               |  |  |
| J-I    | 0/4240                    | -28.0                     | -28.0         | 0.35 (1)             |       |                           |               |  |  |
| I-H    | 0/0                       | -28.0                     | -28.0         | 0.07 (3)             |       |                           |               |  |  |

#### DESIGN CRITERIA

#### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 30.0 | PSF |
|            | DL | = | 15.0 | PSF |
| BOT CH.    | LL | = | 10.5 | PSF |
|            | DL | = | 7.0  | PSF |
| TOTAL LOAD |    | = | 62.5 | PSF |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

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

THIS DESIGN COMPLIES WITH:  
- PART 8 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 085-09  
- TPC 2011

(55% OF 30.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.82")  
CALCULATED VERT. DEFL.(LL) =  $L/899$  (0.24")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.82")  
CALCULATED VERT. DEFL.(TL) =  $L/649$  (0.45")

CS1: TC=0.28/1.00 (C-D:1), BC=0.48/1.00 (J-K:1),  
WB=0.55/1.00 (F-J:1), SS1=0.30/1.00 (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 = 0.50  
FLAT ROOF FACTOR = 0.75

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   | 1687    | 822 | 2284 |

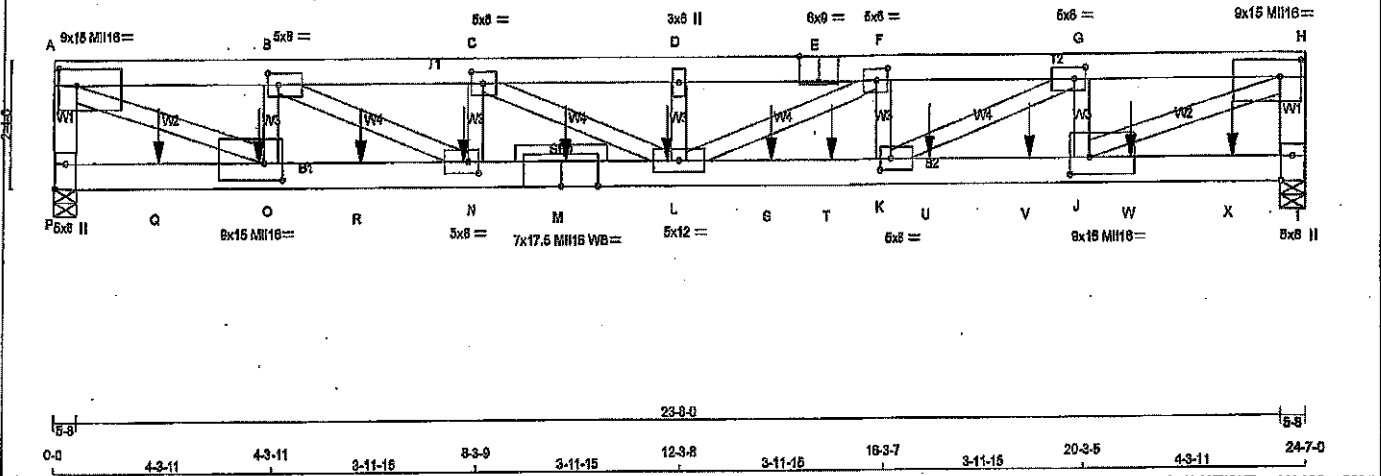
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.88 (A) (INPUT = 0.80)  
JSI METAL=0.82 (M) (INPUT = 1.00)



DRWG NO. TAM-11609  
STRUCTURAL  
COMPONENT ONLY



LUMBER

N. L. G. A. RULES

| CHORDS          | SIZE | DRY | LUMBER     | DESCR. |
|-----------------|------|-----|------------|--------|
| P - A           | 2x8  | DRY | No.2       | SPF    |
| A - E           | 2x8  | DRY | 2100F 1.8E | SPF    |
| E - H           | 2x8  | DRY | 2100F 1.8E | SPF    |
| I - H           | 2x8  | DRY | No.2       | SPF    |
| P - M           | 2x8  | DRY | 2100F 1.8E | SPF    |
| M - I           | 2x8  | DRY | 2100F 1.8E | SPF    |
| ALL WEBS EXCEPT | 2x4  | DRY | No.2       | SPF    |
| J - H           | 2x4  | DRY | 2100F 1.8E | SPF    |
| A - O           | 2x4  | DRY | 2100F 1.8E | 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    |                      |               |
| P-A                                      | 2 12                 | TOP           |
| A-E                                      | 2 12                 | TOP           |
| E-H                                      | 2 12                 | TOP           |
| H-I                                      | 2 12                 | TOP           |
| BOTTOM CHORDS : (0.122'x3') SPIRAL NAILS |                      |               |
| P-M                                      | 3 5                  | SIDE (857.2)  |
| M-I                                      | 3 5                  | SIDE (1408.1) |
| 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 0.60" DIAM. ASTM A307 BOLTS WITH WASHERS, BOTH SIDES. FOR OTHER BOLT TYPES SEE CSA068 8.3.2.

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 TM/VW4   | MIH6   | 9.0 | 15.0 | 3.75 | 4.50 |
| B TM/VW4   | MT20   | 5.0 | 8.0  | 2.50 | 2.50 |
| C TM/VW4   | MT20   | 5.0 | 8.0  | 2.50 | 2.75 |
| D TM/VW4   | MT20   | 3.0 | 8.0  |      |      |
| E TS-4     | MT20   | 8.0 | 8.0  | Edge | 4.50 |
| F TM/VW4   | MT20   | 5.0 | 8.0  | 2.50 | 2.75 |
| G TM/VW4   | MT20   | 5.0 | 8.0  | 2.50 | 2.50 |
| H TM/VW4   | MIH6   | 9.0 | 15.0 | 3.75 | 4.50 |
| I BM/V4+P  | MT20   | 5.0 | 8.0  | Edge | 2.50 |
| J BM/VW4   | MIH6   | 9.0 | 15.0 | 3.75 | 4.50 |
| K-BM/VW4   | MT20   | 5.0 | 8.0  | 2.50 | 2.50 |
| L BM/VWVW4 | MT20   | 5.0 | 12.0 |      |      |
| M BS-4     | MIH6   | 7.0 | 17.5 |      |      |
| N BM/VW4   | MT20   | 5.0 | 8.0  | 2.50 | 2.50 |
| O BM/VW4   | MIH6   | 9.0 | 15.0 | 3.75 | 4.50 |

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

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING

BEARINGS

|         | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|---------|-------------------------|---------------------------------|-----------|-----------|
| JT VERT | HORIZ.                  | DOWN                            | HORIZ     | UPLIFT    |
| P       | 9753                    | 0                               | 9753      | 0         |
| I       | 13041                   | 0                               | 13041     | 0         |

UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN  | COMPONENT REACTIONS | SNOW  | LIVE  | PERM.LIVE | WIND  | DEAD  | SOIL  |
|----|----------|----------|---------------------|-------|-------|-----------|-------|-------|-------|
| P  | 7768     | 3824 / 0 | 1219 / 0            | 0 / 0 | 0 / 0 | 2726 / 0  | 0 / 0 | 0 / 0 | 0 / 0 |
| I  | 10408    | 8087 / 0 | 1655 / 0            | 0 / 0 | 0 / 0 | 3854 / 0  | 0 / 0 | 0 / 0 | 0 / 0 |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.66 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 | MAX. FACTORED MEMB. | FORCE (LBS) | FACTORED VERT. LOAD (LBS) | FACTORED HORZ. LOAD (LBS) | MAX. MEMB. FORCE (LBS) | MAX. FACTORED WEBS | FORCE (LBS) | MAX. FACTORED WEBS | FORCE (LBS) |
|--------|---------------------|-------------|---------------------------|---------------------------|------------------------|--------------------|-------------|--------------------|-------------|
| FR-TO  |                     |             |                           |                           |                        |                    |             |                    |             |
| P-A    | -9155 / 0           | 0.0         | 0.0                       | 0.24 (1)                  | 5.77                   | J-H                | 0 / 127463  | 0.69 (1)           |             |
| A-B    | -29227 / 0          | -127.4      | -127.4                    | 0.18 (1)                  | 3.94                   | A-O                | 0 / 22062   | 0.55 (1)           |             |
| B-C    | -32004 / 0          | -127.4      | -127.4                    | 0.39 (1)                  | 3.05                   | J-G                | -6853 / 0   | 0.21 (1)           |             |
| C-D    | -37888 / 0          | -127.4      | -127.4                    | 0.51 (1)                  | 2.69                   | O-B                | -6082 / 0   | 0.21 (1)           |             |
| D-E    | -37888 / 0          | -127.4      | -127.4                    | 0.53 (1)                  | 2.69                   | K-G                | 0 / 12580   | 0.58 (1)           |             |
| E-F    | -37888 / 0          | -127.4      | -127.4                    | 0.53 (1)                  | 2.69                   | B-N                | 0 / 13011   | 0.70 (1)           |             |
| F-G    | -36957 / 0          | -127.4      | -127.4                    | 0.50 (1)                  | 2.76                   | K-F                | -1039 / 0   | 0.04 (1)           |             |
| G-H    | -25179 / 0          | -127.4      | -127.4                    | 0.27 (1)                  | 3.51                   | N-C                | -8270 / 0   | 0.11 (1)           |             |
| H-I    | -11372 / 0          | 0.0         | 0.0                       | 0.30 (1)                  | 5.25                   | L-F                | 0 / 1470    | 0.08 (1)           |             |
|        |                     |             |                           |                           |                        | C-L                | 0 / 8811    | 0.35 (1)           |             |
|        |                     |             |                           |                           |                        | L-D                | -508 / 0    | 0.02 (1)           |             |
| P-Q    | 0 / 0               | -28.0       | -28.0                     | 0.18 (1)                  | 10.00                  |                    |             |                    |             |
| Q-O    | 0 / 0               | -28.0       | -28.0                     | 0.18 (1)                  | 10.00                  |                    |             |                    |             |
| O-R    | 0 / 20227           | -28.0       | -28.0                     | 0.53 (1)                  | 10.00                  |                    |             |                    |             |
| R-N    | 0 / 20227           | -28.0       | -28.0                     | 0.53 (1)                  | 10.00                  |                    |             |                    |             |
| N-M    | 0 / 32004           | -28.0       | -28.0                     | 0.77 (1)                  | 10.00                  |                    |             |                    |             |
| M-L    | 0 / 32004           | -28.0       | -28.0                     | 0.77 (1)                  | 10.00                  |                    |             |                    |             |
| L-S    | 0 / 36657           | -28.0       | -28.0                     | 0.94 (1)                  | 10.00                  |                    |             |                    |             |
| S-T    | 0 / 36657           | -28.0       | -28.0                     | 0.94 (1)                  | 10.00                  |                    |             |                    |             |
| T-K    | 0 / 36657           | -28.0       | -28.0                     | 0.94 (1)                  | 10.00                  |                    |             |                    |             |
| K-U    | 0 / 25179           | -28.0       | -28.0                     | 0.67 (1)                  | 10.00                  |                    |             |                    |             |
| U-V    | 0 / 25179           | -28.0       | -28.0                     | 0.67 (1)                  | 10.00                  |                    |             |                    |             |
| V-J    | 0 / 25179           | -28.0       | -28.0                     | 0.67 (1)                  | 10.00                  |                    |             |                    |             |
| J-W    | 0 / 0               | -28.0       | -28.0                     | 0.34 (1)                  | 10.00                  |                    |             |                    |             |
| W-X    | 0 / 0               | -28.0       | -28.0                     | 0.34 (1)                  | 10.00                  |                    |             |                    |             |
| X-I    | 0 / 0               | -28.0       | -28.0                     | 0.34 (1)                  | 10.00                  |                    |             |                    |             |

FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1   | MAX.  | MAX- | FACE | ORL  | TYPE  |
|----|---------|-------|-------|------|------|------|-------|
| L  | 12-0-12 | -1176 | -1176 |      | BACK | VERT | TOTAL |
| M  | 10-0-12 | -1176 | -1176 |      | BACK | VERT | TOTAL |
| N  | 8-0-12  | -1176 | -1176 |      | BACK | VERT | TOTAL |
| O  | 4-0-12  | -1176 | -1176 |      | BACK | VERT | TOTAL |
| Q  | 2-0-12  | -1176 | -1176 |      | BACK | VERT | TOTAL |
| R  | 0-0-12  | -1176 | -1176 |      | BACK | VERT | TOTAL |
| S  | 14-0-12 | -1176 | -1176 |      | BACK | VERT | TOTAL |
| T  | 15-2-12 | -2148 | -2148 |      | BACK | VERT | TOTAL |
| U  | 17-2-12 | -2148 | -2148 |      | BACK | VERT | TOTAL |
| V  | 18-2-12 | -2148 | -2148 |      | BACK | VERT | TOTAL |
| W  | 21-2-12 | -2148 | -2148 |      | BACK | VERT | TOTAL |

DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 30.0 PSF  
DL = 15.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 82.5 PSF

SPACING = 24.0 IN. G/G

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

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

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

(55% OF 30.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 30.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.82")  
CALCULATED VERT. DEFL.(LL) = L/903 (0.33")  
ALLOWABLE DEFL.(TL) = L/360 (0.82")  
CALCULATED VERT. DEFL.(TL) = L/474 (0.82")

CSL TC=0.53/1.00 (D-F-1), BC=0.94/1.00 (K-L-1), WB=0.70/1.00 (B-N-1), SS=0.62/1.00 (J-K-1)

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

COMPANION LIVE LOAD FACTOR = 0.50  
FLAT ROOF FACTOR = 0.75

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

NAIL VALUES

| PLATE GRIP (DRY) | SHEAR (PSI) | SECTION (PLI) |
|------------------|-------------|---------------|
| MT20             | 818         | 354           |
| MIH6             | 473         | 276           |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.89 (J) (INPUT = 0.80)  
JSI METAL= 1.00 (H) (INPUT = 1.00)

DRWG NO. TAM 12462-08  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |          |
|----------|------------|----------|-----|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 292724   | T43        | 1        | 4   | TRUSS DESC. |          |

Femareck Roof Truss, Burlington

Version 8.200 S Jan 6 2018 MTEK Industries, Inc. Mon Mar 5 15:39:35 2018 Page 2

ID:Ya4cF5JbFwMBvPAe44tPY6zxTzI-KNZfIdByCmKx3P27PID1dLvJoYAUNhL4y1C9Izdxds

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| P  | BMV1+p | MT20   | 5.0 | 5.0 | Edge | 2.50 |

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

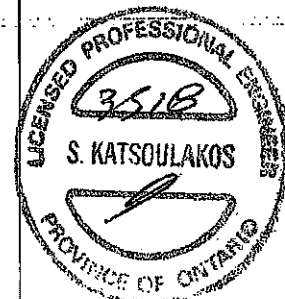
WB - INDICATES BLOCKING REQUIRED

**HANGERS NOTES**

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 1176.4 lbs FACTORED DOWN AT 2-0-12, 1176.4 lbs FACTORED DOWN AT 4-0-12, 1178.4 lbs FACTORED DOWN AT 6-0-12, 1178.4 lbs FACTORED DOWN AT 8-0-12, 1176.4 lbs FACTORED DOWN AT 10-0-12, 1176.4 lbs FACTORED DOWN AT 12-0-12, 1176.4 lbs FACTORED DOWN AT 14-0-12, 2147.7 lbs FACTORED DOWN AT 15-2-12, 2147.7 lbs FACTORED DOWN AT 17-2-12, 2147.7 lbs FACTORED DOWN AT 18-2-12, AND 2147.7 lbs FACTORED DOWN AT 21-2-12, AND 2147.7 lbs FACTORED DOWN AT 23-2-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

**FACTORED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1   | MAX-  | MAX+ | FACE | DIR. | TYPE  |
|----|---------|-------|-------|------|------|------|-------|
| X  | 23-2-12 | -2148 | -2148 | -    | BACK | VERT | TOTAL |



DWG NO. TAM 12161-18  
STRUCTURAL  
COMPONENT ONLY

# LUS – Double Shear Joist Hangers



All LUS hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections.

**Material:** 18 gauge

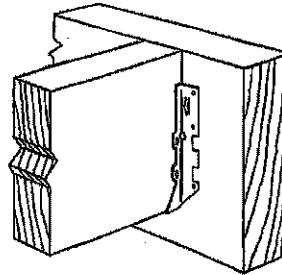
**Finish:** G90 galvanized

## Design:

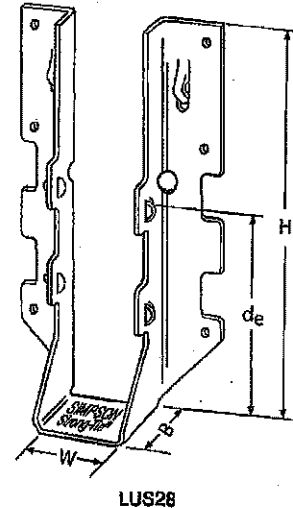
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

## Installation:

- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire,  
10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

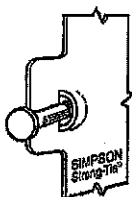


Typical LUS Installation

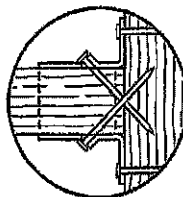


| Model No. | Ga. | Dimensions (in.) |       |       |                             | Fasteners |         | Factored Resistance (lb.)        |                                  |                                  |                                  |
|-----------|-----|------------------|-------|-------|-----------------------------|-----------|---------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |     |                  |       |       |                             |           |         | D-Fir-L                          |                                  | S-P-F                            |                                  |
|           |     | W                | H     | B     | d <sub>e</sub> <sup>1</sup> | Face      | Joist   | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>p</sub> =1.00) | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>p</sub> =1.00) |
| LUS24     | 18  | 1 1/4            | 3 1/2 | 1 1/4 | 1 1/4                       | (4) 10d   | (2) 10d | 710                              | 1830                             | 645                              | 1155                             |
| LUS24-2   | 18  | 3 1/4            | 3 1/4 | 2     | 1 1/4                       | (4) 18d   | (2) 18d | 835                              | 2020                             | 590                              | 1435                             |
| LUS28     | 18  | 1 1/4            | 4 1/4 | 1 1/4 | 3 3/4                       | (4) 10d   | (4) 10d | 1420                             | 2170                             | 1290                             | 1830                             |
| LUS28-2   | 18  | 3 1/4            | 4 1/4 | 2     | 4                           | (4) 16d   | (4) 16d | 1720                             | 2585                             | 1545                             | 1920                             |
| LUS28-3   | 18  | 4 1/4            | 4 1/4 | 2     | 3 1/4                       | (4) 18d   | (4) 16d | 1720                             | 2585                             | 1545                             | 2340                             |
| LUS28     | 18  | 1 1/4            | 6 1/4 | 1 1/4 | 3 3/4                       | (6) 10d   | (6) 10d | 1420                             | 2520                             | 1290                             | 1790                             |
| LUS28-2   | 18  | 3 1/4            | 7     | 2     | 4                           | (6) 16d   | (4) 16d | 1720                             | 3325                             | 1545                             | 2575                             |
| LUS28-3   | 18  | 4 1/4            | 6 1/4 | 2     | 3 1/4                       | (6) 16d   | (4) 16d | 1720                             | 3325                             | 1545                             | 2375                             |
| LUS210    | 18  | 1 1/4            | 7 1/4 | 1 1/4 | 3 3/4                       | (8) 10d   | (4) 10d | 1420                             | 2785                             | 1290                             | 2210                             |
| LUS210-2  | 18  | 3 1/4            | 9     | 2     | 6                           | (8) 16d   | (6) 16d | 2580                             | 4500                             | 2320                             | 3195                             |
| LUS210-3  | 18  | 4 1/4            | 8 1/4 | 2     | 5 1/4                       | (8) 16d   | (6) 16d | 2580                             | 3345                             | 2320                             | 2375                             |

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



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



Double Shear Nailing Top View.



LIMIT STATES DESIGN

This technical bulletin is effective until June 30, 2019, and reflects 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](http://strongtie.com).

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T-SPEC LUS17 3/17 exp. 6/19

(800) 999-5099  
[strongtie.com](http://strongtie.com)



# TECHNICAL BULLETIN

## HUS/LJS - Double Shear Joist Hangers

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

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

**Material:** See table

**Finish:** G90 galvanized

### Design:

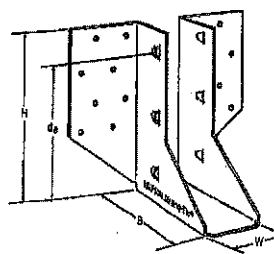
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

### Installation:

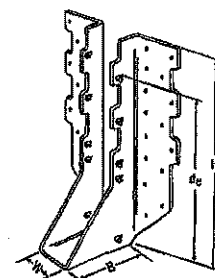
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

### Options:

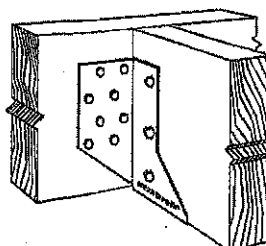
- See current catalogue for options



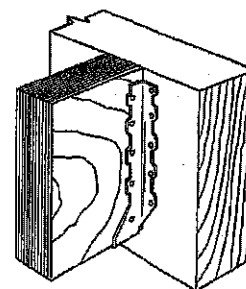
LJS26DS



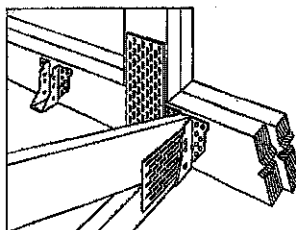
HUS210  
(HUS26, HUS28, similar)



Typical LJS26DS  
Installation



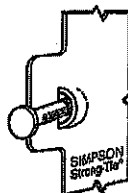
Typical HUS  
Installation



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

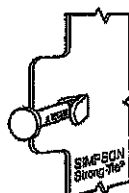
| Model No.  | Ga. | Dimensions (in.) |       |       |                |          | Fasteners |  | Factored Resistance (lb.)               |                                         |                                         |                                         |
|------------|-----|------------------|-------|-------|----------------|----------|-----------|--|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
|            |     | W                | H     | B     | d <sub>1</sub> | Face     | Joist     |  | D.Fir-L                                 |                                         | S-P-F                                   |                                         |
|            |     |                  |       |       |                |          |           |  | Uplift<br>(K <sub>u</sub> =1.15)<br>lb. | Normal<br>(K <sub>u</sub> =1.00)<br>lb. | Uplift<br>(K <sub>u</sub> =1.15)<br>lb. | Normal<br>(K <sub>u</sub> =1.00)<br>lb. |
| LJS26DS    | 18  | 1 1/16           | 5     | 3 1/2 | 4 3/4          | (16) 16d | (8) 16d   |  | 2055                                    | 4265                                    | 1480                                    | 4115                                    |
| HUS26      | 16  | 1 1/8            | 5 1/2 | 3     | 3 1/4          | (14) 16d | (8) 16d   |  | 2705                                    | 4940                                    | 2085                                    | 3875                                    |
| HUS28      | 16  | 1 1/8            | 7 3/4 | 3     | 6 3/4          | (22) 16d | (8) 16d   |  | 3605                                    | 5385                                    | 2675                                    | 4345                                    |
| HUS210     | 16  | 1 1/8            | 9 3/4 | 3     | 7 3/4          | (30) 16d | (10) 16d  |  | 4505                                    | 5795                                    | 4010                                    | 4740                                    |
| HUS1.81/10 | 16  | 1 3/8            | 9     | 3     | 8              | (30) 16d | (10) 16d  |  | 4505                                    | 6450                                    | 4010                                    | 5200                                    |

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

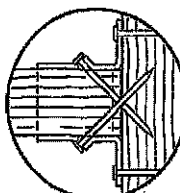


Dome Double  
Shear Nailing  
prevents tabs  
breaking off  
(available on  
some models).

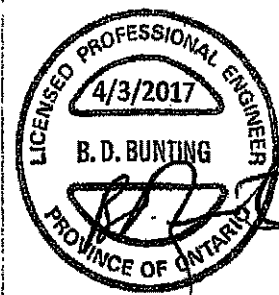
U.S. Patent  
5,603,580



Double  
Shear  
Nailing  
Side View.  
Do not  
bend tab  
back.



Double  
Shear  
Nailing  
Top View.



**LIMIT  
STATES  
DESIGN**

This technical bulletin is effective until June 30, 2019, and reflects 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](http://strongtie.com).

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T-SPEC-HUS17 3/17 exp. 6/19

(800) 999-5099  
[strongtie.com](http://strongtie.com)

# HGUS – Double Shear Joist Hangers



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

**Material:** 12 gauge

**Finish:** G90 galvanized

**Design:**

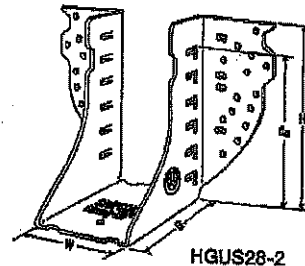
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

**Installation:**

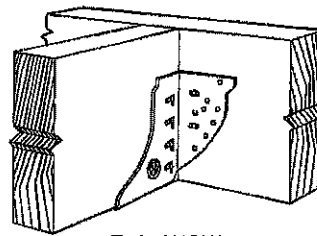
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

**Options:**

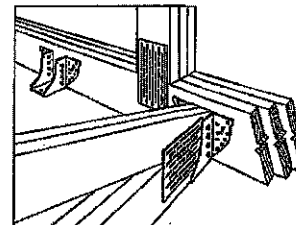
- See current catalogue for options



HGUS28-2



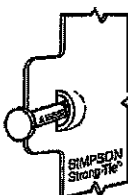
Typical HGUS Installation



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

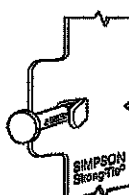
| Model No. | Ga. | Dimensions (in.) |        |   |                |          | Fasteners |  | Factored Resistance (lb.)        |                                  |                                  |                                  |
|-----------|-----|------------------|--------|---|----------------|----------|-----------|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |     | W                | H      | B | d <sub>1</sub> | Face     | Joist     |  | D.Fir-L                          |                                  | S-P-F                            |                                  |
|           |     |                  |        |   |                |          |           |  | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>n</sub> =1.00) | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>n</sub> =1.00) |
| HGUS26    | 12  | 1 1/8            | 5 1/8  | 5 | 4 1/2          | (20) 16d | (8) 16d   |  | 2685                             | 6625                             | 2685                             | 5700                             |
| HGUS26-2  | 12  | 3 1/8            | 5 1/8  | 4 | 4 1/8          | (20) 16d | (8) 16d   |  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS26-3  | 12  | 4 1/8            | 5 1/8  | 4 | 4 1/8          | (20) 16d | (8) 16d   |  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS26-4  | 12  | 6 1/8            | 5 1/8  | 4 | 4 1/8          | (20) 16d | (8) 16d   |  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS28    | 12  | 1 1/8            | 7 1/8  | 5 | 6 1/8          | (36) 16d | (12) 16d  |  | 3310                             | 7675                             | 3100                             | 6900                             |
| HGUS28-2  | 12  | 3 1/8            | 7 1/8  | 4 | 6 1/8          | (36) 16d | (12) 16d  |  | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-3  | 12  | 4 1/8            | 7 1/8  | 4 | 6 1/8          | (36) 16d | (12) 16d  |  | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-4  | 12  | 6 1/8            | 7 1/8  | 4 | 6 1/8          | (36) 16d | (12) 16d  |  | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS210-2 | 12  | 3 1/8            | 9 1/8  | 4 | 8 1/8          | (46) 16d | (16) 16d  |  | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS210-3 | 12  | 4 1/8            | 9 1/8  | 4 | 8 1/8          | (46) 16d | (16) 16d  |  | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS210-4 | 12  | 6 1/8            | 9 1/8  | 4 | 8 1/8          | (46) 16d | (16) 16d  |  | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS212-4 | 12  | 8 1/8            | 10 1/8 | 4 | 10 1/8         | (56) 16d | (20) 16d  |  | 7640                             | 14995                            | 5425                             | 10645                            |
| HGUS214-4 | 12  | 8 1/8            | 12 1/8 | 4 | 11 1/8         | (66) 16d | (22) 16d  |  | 10130                            | 16400                            | 7195                             | 11845                            |

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

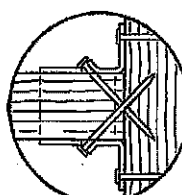


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

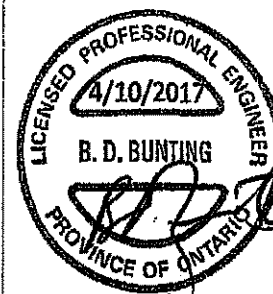
U.S. Patent 5,603,680



Double Shear Nailing Side View. Do not bend tab back.



Double Shear Nailing Top View.



LIMIT STATES DESIGN

This technical bulletin is effective until June 30, 2019, and reflects 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-SPECHGUS17 3/17 exp. 6/19

(800) 999-5099  
strongtie.com

# MICRO CITY

## ENGINEERING SERVICES INC.

TEL: (610) 287-2242

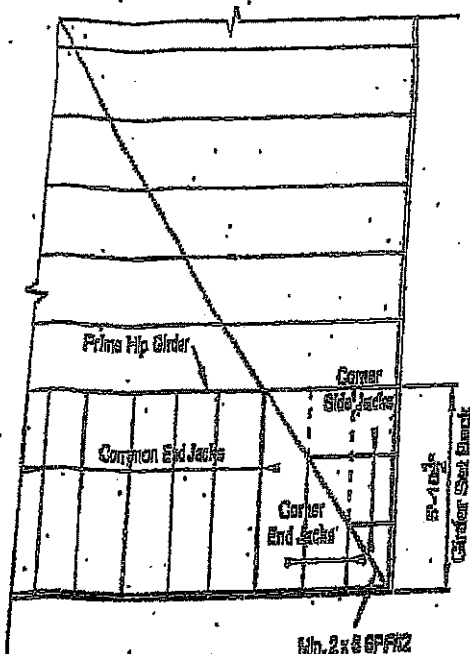
### LUMBER SPECIFICATION

TOP CHORD : 2x4 SPF#2

BOTTOM CHORD : 2x4 SPF#2

WEBS : 2x8 SPF#2

UNLESS OTHERWISE SHOWN



45° Hip End

### DESIGN LOAD:

TOP CHORD LIVE LOAD : 39.6 P.S.F.

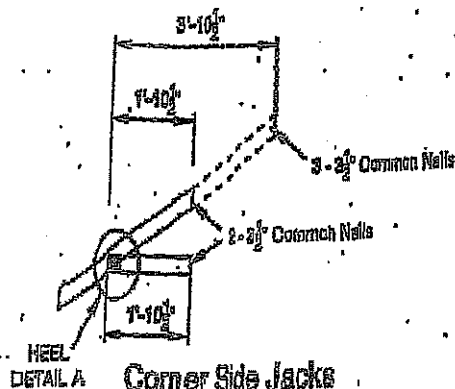
TOP CHORD DEAD LOAD : 3.0 P.S.F.

BOTTOM CHORD LIVE LOAD : 10.5 P.S.F.

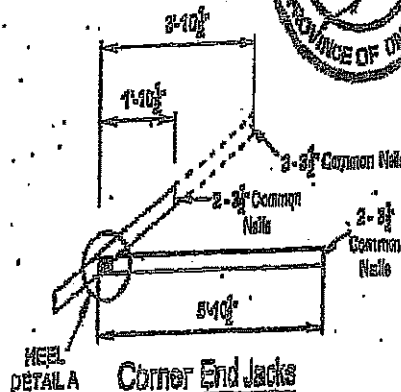
BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

TOTAL LOAD : 59.5 P.S.F.

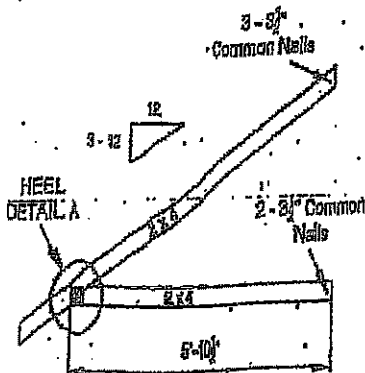
DRWING TANK 2485.11  
STRUCTURAL  
COMPONENT ONLY



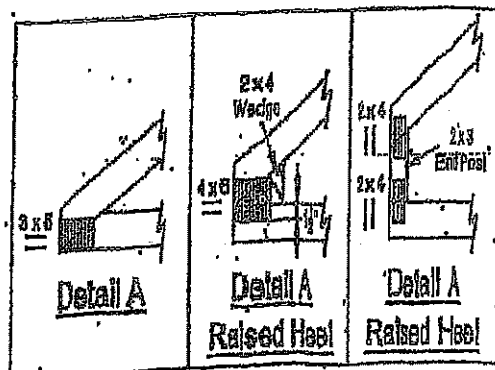
Corner Side Jacks



Corner End Jacks



Common End Jacks



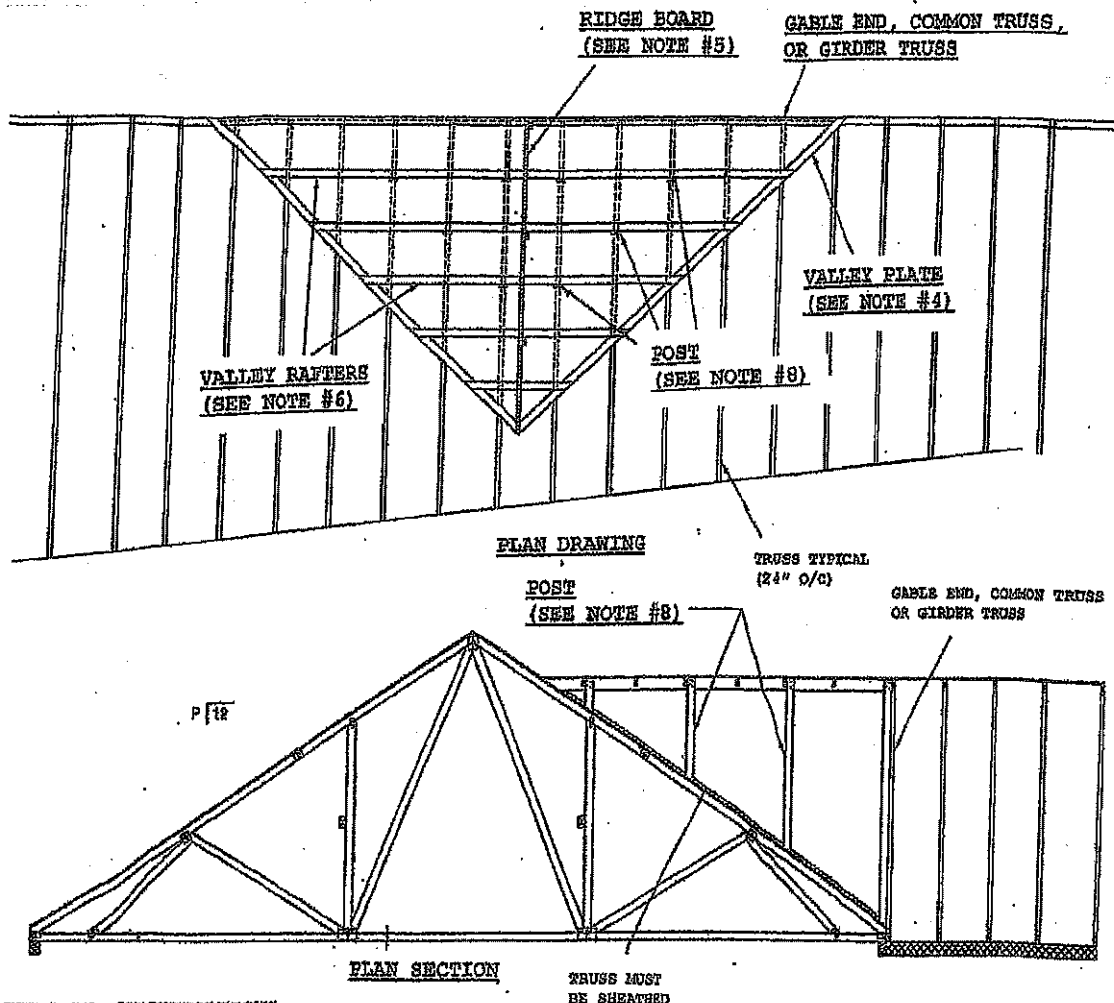
NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (LIMIT STATE DESIGN)  
(TO BE INCLUDED AND USED AS PART OF A FULL TRUSS ENGINEERING PACKAGE)

# 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 SPF RIDGE BOARD (MAX. 20'-0" RIDGE). SUPPORT RIDGE BOARD WITH 2 X 4 POSTS SPACED 48" O/C. BEVEL BOTTOM OF POST TO SET EVENLY ON THE SHEATHING. FASTEN POST TO RIDGE WITH (4) 10d (3" X 0.131") NAILS. FASTEN POST TO ROOF SHEATHING WITH (3) 10d (3" X 0.131") TOE-NAILS.
- (6) FRAME VALLEY RAFTERS FROM VALLEY PLATE TO RIDGE BOARD. MAXIMUM RAFTER SPACING IS 24" O/C. FASTEN VALLEY RAFTER TO RIDGE BEAM WITH (3) 16d (3.5" X 0.131") TOE-NAILS. FASTEN VALLEY RAFTER TO VALLEY PLATE WITH (3) 16d (3.5" X 0.131") TOE-NAILS.
- (7) SUPPORT THE VALLEY RAFTERS WITH 2 X 4 POSTS AT 48" O/C (OR LESS) ALONG EACH RAFTER. INSTALL POSTS IN A STAGGERED PATTERN AS SHOWN ON PLAN DRAWING. ALIGN POSTS WITH TRUSSES BELOW. FASTEN VALLEY RAFTER TO POST WITH (4) 10d (3" X 0.131") NAILS. FASTEN POST THROUGH SHEATHING TO SUPPORTING TRUSSES WITH (2) 16d (3.5" X 0.131") NAILS.
- (8) POSTS SHALL BE 2 X 4 #2 SPF OR BETTER. POSTS EXCEEDING 75" IN HEIGHT SHALL BE INCREASED TO 4 X 4 #2 SPF, OR BETTER, OR BE PRE-ASSEMBLED TWO (2) PLY 2 X 4 #2 SPF OR BETTER FASTENED TOGETHER WITH 2 ROWS OF 10d (3" X 0.131") NAILS AT 6" O/C.
- (9) MAINTAIN A MINIMUM 3/4" LUMBER EDGE DISTANCE WHEN NAILING. NAIL SPACING SHOULD APPROXIMATE A MINIMUM 1-3/4" O/C OR MORE UNLESS NOTED OTHERWISE. ALL CONSTRUCTION TO CONFORM TO ONTARIO BUILDING CODE (CURRENT ADDITION) AT ALL TIMES.

### NOTES:

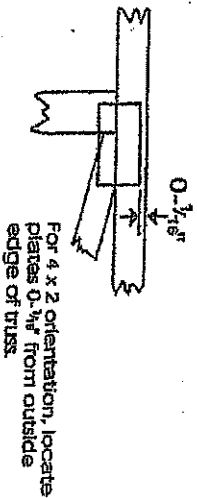
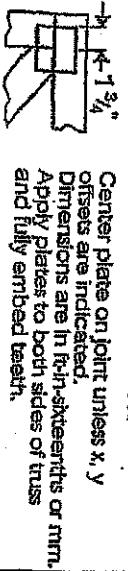
- (10) 48" O/C (MAXIMUM POST SPACING).
- (11) ROOF LIVE LOAD = 34.8 PSF (MAX.)
- (12) ROOF DEAD LOAD = 10.0 PSF (MAX.)
- (13) PART 9 APPLICATION ONLY (ONTARIO BUILDING CODE)
- (14) PART 4 APPLICATION ONLY (ONTARIO BUILDING CODE) WITH APPROVED REVIEW BY LICENSED PROFESSIONAL ENGINEER.
- (15) BASE TRUSS 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 (1/12) - MINIMUM.
- (18) ALL VALLEY RAFTERS: P = 6 (4/12) - MINIMUM.



DRW NO T&M 6305.14  
STRUCTURAL  
COMPONENT ONLY

# Symbols

## PLATE LOCATION AND ORIENTATION



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

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

## PLATE SIZE

4 X 4

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

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use 1, 1 or Eliminator bracing if indicated.

## BEARING

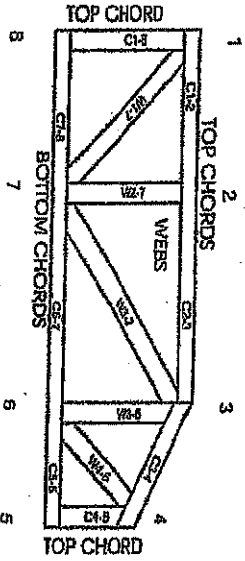


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:  
TPIC: Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses  
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8 dimensions shown in feet-sixteenths or mm (Drawings not to scale)



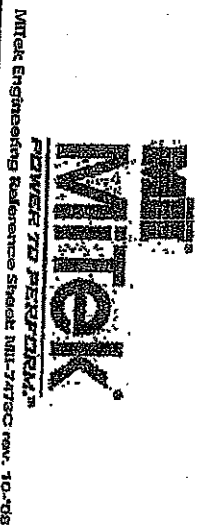
JOINTS ARE GENERALLY NUMBERED/CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

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

## PRODUCT CODE APPROVALS

CCMC Reports:  
11895-L, 10619-L, 13270-L, 12691-R

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# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative 1, 1 or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and warps at joint locations are regulated by TPIC.
7. Design assumes trusses will be suitably protected from the environment in accord with TPIC.
8. Unless otherwise noted, moisture content of lumber shall not exceed 15% 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 the 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 the design (from, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with TPIC Quality Criteria.

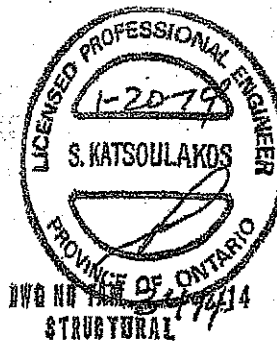
Micro City Engineering Services Inc.  
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**Responsibilities:**

Micro City Engineering Services is responsible for the design of trusses as individual components.

It is the responsibilities of others to ascertain that the design loads utilized on this (these) drawing(s) meet or exceed the actual dead load imposed by the structure and the live load imposed by the local building code or the authorities having jurisdiction over such decisions.

All dimensions are to be verified by the owner, contractor, architect, or other authority having input over such decisions prior to truss component manufacture. At no time shall Micro City Engineering Services Inc. or its employees be responsible for dimension errors.

Micro City Engineering Services Inc. bears no responsibility for the erection of any truss components. Persons erecting truss components are cautioned to seek professional advice regarding temporary and permanent bracing systems and to be totally familiar with all aspects of truss erection prior to proceeding on any truss component erection job. Any bracing shown on Micro City Engineering Services Inc. or Tamarack Roof Trusses Inc. sealed or unsealed truss component drawings is specified for the single truss component in question and is identified as an integral part of the design for that particular truss component but is not meant to represent the only required bracing for that particular truss component when installed as a component in a series of truss components in a roof truss system.

It is the truss manufacturer's responsibility to ensure that trusses are manufactured in accordance with Micro City Engineering Services Inc. specifications outlined below:

**SPECIFICATIONS:**

Truss components sealed by Micro City Engineering Services Inc. must conform to the relevant sections of the current Building Code of Ontario and Canada (Part 4 or Part 9) or the current Farm Building Code of Canada in accordance with the application specified on the sealed truss component drawing. All truss component design procedures must conform to the current design standard issued by the Truss Plate Institute of Canada (TPIC). All unit lumber and nailing stresses identified on truss component design drawings and/or used in the design of individual truss components shall conform to the current CSA Wood Design standard identified in the current Building Code and TPIC Design Standards.

The lumber used to manufacture any truss component is to conform to the specified size and grade identified on the truss drawing.

The lumber used in the manufacture of any truss component is not to exceed 19% during its service use unless specifically noted on the truss drawing.

The lumber used in the manufacture of any truss component is not to be treated with any chemicals during its service life unless specifically noted on the truss drawing.

Connector plates shall be applied to both faces of the truss component at each joint and shall be positioned exactly as specified.

The top chord of any truss component is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals specified on the sealed truss component drawing but not exceeding 24" o/c (Part 9 design) and not exceeding 48" o/c (Part 4 or Agricultural design).

When a truss component is to be installed with no rigid ceiling attached directly to the bottom chord, then the bottom chord is to be laterally braced at intervals not exceeding 3m (or 10'-0").

All sealed or unsealed truss component drawings provided by Micro City Engineering Services Inc. Or Tamarack Roof Trusses Inc. should be read in conjunction with the following:

Warning-Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473C rev 10-08 BEFORE USE. Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for individual building component. Applicability of design parameters and proper incorporation of component is the responsibility of the building designer - not the truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult TPIC Appendix G - Minimum Quality Manufacturing Criteria available from [www.tpica.ca](http://www.tpica.ca) and BCSI Building Component Safety Information available from the Truss Plate Institute, 781 N. Lee Street, Suite 312, Alexandria, VA, 22314.