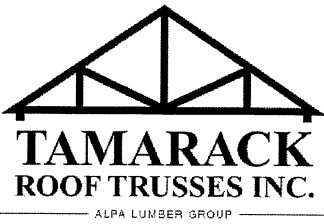




# DELIVERY SHIPLIST



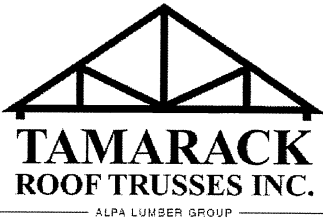
Lumber Yard: TAMARACK LUMBER  
 Builder: BAYVIEW WELLINGTON  
 Project: GREEN VALLEY EAST  
 Location: BRADFORD  
 Model: S42-18 (LOT 402B)  
 Lot #:  
 Elevation: A (LOT 402B)

Job Track: 50465  
 PlanLog: 202997  
 Layout ID: 415008  
 Ref #  
 Page: 1 of 3  
 Date: 12-10-2020  
 Designer: Leo Chen  
 Sales Rep: Rick DiCiano

## Roof Trusses

| PROFILE | QTY<br>PLY | MARK<br>TYPE            | PITCH | SPAN     | HEIGHT  | LUMBER         | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|---------|------------|-------------------------|-------|----------|---------|----------------|---------------------------|------------------------------|------------------|---------------------|--------------------|
|         | 2          | T1<br>Hip Girder        | 8 /12 | 20-08-00 | 5-03-13 | 2 x 4          | 1-03-08<br>1-03-08        | 1-04-13<br>1-04-13           | 188.78<br>119.67 |                     |                    |
|         | 2          | T2<br>Hip               | 8 /12 | 20-08-00 | 6-07-13 | 2 x 4          | 1-03-08<br>1-03-08        | 1-04-13<br>1-04-13           | 179.14<br>115.33 |                     |                    |
|         | 2          | T3<br>Hip               | 8 /12 | 20-08-00 | 7-11-13 | 2 x 4          | 1-03-08<br>1-03-08        | 1-04-13<br>1-04-13           | 201.84<br>128.00 |                     |                    |
|         | 2          | T4<br>Common            | 8 /12 | 7-04-00  | 3-10-02 | 2 x 4          | 1-03-08                   | 1-04-13<br>1-04-13           | 61.92<br>41.33   |                     |                    |
|         | 1          | T4Z<br>Common<br>Girder | 8 /12 | 7-04-00  | 3-10-02 | 2 x 4          | 1-03-08                   | 1-04-13<br>1-04-13           | 30.96<br>20.67   |                     |                    |
|         | 1          | T5<br>Common<br>Girder  | 8 /12 | 10-06-00 | 4-10-13 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-04-13<br>1-04-13           | 52.41<br>34.00   |                     |                    |
|         | 1          | T5Z<br>Common<br>Girder | 8 /12 | 10-06-00 | 4-10-13 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-04-13<br>1-04-13           | 52.41<br>34.00   |                     |                    |
|         | 4          | T6<br>Common            | 8 /12 | 10-06-00 | 4-10-13 | 2 x 4          | 1-03-08<br>1-03-08        | 1-04-13<br>1-04-13           | 176.19<br>112.67 |                     |                    |
|         | 1          | T7<br>Hip Girder        | 8 /12 | 25-00-00 | 5-03-13 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-04-13<br>1-04-13           | 129.83<br>78.83  |                     |                    |
|         | 1          | T8<br>Hip               | 8 /12 | 25-00-00 | 6-07-13 | 2 x 4          | 1-03-08<br>1-03-08        | 1-04-13<br>1-04-13           | 113.66<br>73.83  |                     |                    |
|         | 1          | T9X<br>Hip              | 8 /12 | 25-04-00 | 7-11-13 | 2 x 4          | 1-03-08                   | 1-04-13<br>1-02-02           | 110.86<br>70.67  |                     |                    |
|         | 1          | T10X<br>Hip             | 8 /12 | 25-04-00 | 9-03-13 | 2 x 4          | 1-03-08                   | 1-04-13<br>1-02-02           | 118.91<br>75.00  |                     |                    |
|         | 2          | T11X<br>Common          | 8 /12 | 25-04-00 | 9-08-13 | 2 x 4          | 1-03-08                   | 1-04-13<br>1-02-02           | 221.55<br>136.00 |                     |                    |
|         | 2          | T12<br>Hip              | 8 /12 | 25-04-00 | 7-11-13 | 2 x 4          | 1-03-08                   | 1-04-13<br>2-08-13           | 234.09<br>149.67 |                     |                    |

# DELIVERY SHIPLIST

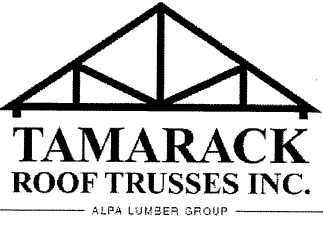


Lumber Yard: TAMARACK LUMBER  
 Builder: BAYVIEW WELLINGTON  
 Project: GREEN VALLEY EAST  
 Location: BRADFORD  
 Model: S42-18 (LOT 402B)  
 Lot #:  
 Elevation: A (LOT 402B)

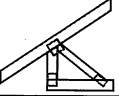
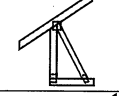
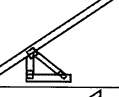
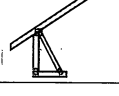
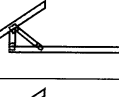
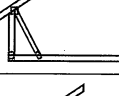
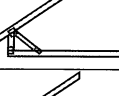
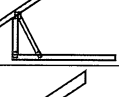
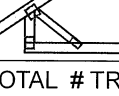
Job Track: 50465  
 PlanLog: 202997  
 Layout ID: 415008  
 Ref #  
 Page: 2 of 3  
 Date: 12-10-2020  
 Designer: Leo Chen  
 Sales Rep: Rick DiCiano

## Roof Trusses

| PROFILE | QTY<br>PLY | MARK<br>TYPE               | PITCH | SPAN     | HEIGHT  | LUMBER         | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|---------|------------|----------------------------|-------|----------|---------|----------------|---------------------------|------------------------------|------------------|---------------------|--------------------|
|         | 2          | T13<br>Hip                 | 8 /12 | 25-04-00 | 9-03-13 | 2 x 4          | 1-03-08                   | 1-04-13<br>2-08-13           | 237.6<br>150.33  |                     |                    |
|         | 1          | T14<br>Hip Girder          | 8 /12 | 25-04-00 | 6-07-13 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-04-13<br>2-08-13           | 138.53<br>84.83  |                     |                    |
|         | 1          | T15<br>Common              | 8 /12 | 13-06-00 | 5-10-13 | 2 x 4          | 1-03-08                   | 1-04-13<br>1-04-13           | 56.86<br>36.33   |                     |                    |
|         | 4          | T15S<br>Roof Special       | 8 /12 | 13-06-00 | 5-10-13 | 2 x 4          | 1-03-08<br>1-03-08        | 1-04-13<br>1-04-13           | 245.29<br>162.00 |                     |                    |
|         | 1          | T16S<br>Hip Girder         | 8 /12 | 13-06-00 | 5-03-13 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-04-13<br>1-04-13           | 74.27<br>49.00   |                     |                    |
|         | 1<br>2-ply | T17<br>Half Hip<br>Girder  | 8 /12 | 5-03-00  | 3-04-02 | 2 x 4          |                           | 1-04-13<br>3-04-02           | 50.11<br>35.33   |                     |                    |
|         | 1<br>2-ply | T18<br>Hip Girder          | 8 /12 | 11-00-00 | 3-02-13 | 2 x 4<br>2 x 6 | 1-03-08                   | 2-08-13<br>2-08-13           | 120.59<br>80.00  |                     |                    |
|         | 1<br>2-ply | T19<br>Monopitch<br>Girder | 8 /12 | 5-10-08  | 6-07-13 | 2 x 4<br>2 x 6 |                           | 2-08-13<br>6-07-13           | 78.33<br>49.67   |                     |                    |
|         | 22         | J2<br>Jack-Open            | 8 /12 | 5-10-08  | 5-03-13 | 2 x 4          | 1-03-08                   | 1-04-13<br>5-03-13           | 530.64<br>333.67 |                     |                    |
|         | 6          | J2S<br>Jack-Open           | 8 /12 | 5-10-08  | 5-03-13 | 2 x 4          | 1-03-08                   | 1-04-13<br>4-03-13           | 134.81<br>88.00  |                     |                    |
|         | 3          | J2S2<br>Jack-Open          | 8 /12 | 5-10-08  | 6-07-13 | 2 x 4          | 1-03-08                   | 2-08-13<br>6-07-13           | 82.1<br>52.50    |                     |                    |
|         | 2          | J3<br>Jack-Open            | 8 /12 | 2-11-00  | 3-04-02 | 2 x 4          | 1-03-08                   | 1-04-13<br>3-04-02           | 23.53<br>15.33   |                     |                    |
|         | 8          | J5<br>Jack-Open            | 4 /12 | 6-10-08  | 3-00-06 | 2 x 4          | 1-03-08                   | 3-15<br>2-07-07              | 161.96<br>101.33 |                     |                    |
|         | 6          | J6<br>Jack-Open            | 4 /12 | 5-09-08  | 2-08-00 | 2 x 4          | 1-03-08                   | 3-15<br>2-03-02              | 91.38<br>56.00   |                     |                    |

|                                                                                                                                                                    |                          |                    |            |              |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|------------|--------------|--------|
|  <p><b>TAMARACK</b><br/>ROOF TRUSSES INC.<br/><small>ALPA LUMBER GROUP</small></p> | <b>DELIVERY SHIPLIST</b> |                    |            |              |        |
|                                                                                                                                                                    | Lumber Yard:             | TAMARACK LUMBER    |            | Job Track:   | 50465  |
|                                                                                                                                                                    | Builder:                 | BAYVIEW WELLINGTON |            | PlanLog:     | 202997 |
|                                                                                                                                                                    | Project:                 | GREEN VALLEY EAST  |            | Layout ID:   | 415008 |
|                                                                                                                                                                    | Location:                | BRADFORD           |            | Ref #        |        |
|                                                                                                                                                                    | Model:                   | S42-18 (LOT 402B)  |            | Page:        | 3 of 3 |
| Lot #:                                                                                                                                                             |                          |                    | Date:      | 12-10-2020   |        |
| Elevation:                                                                                                                                                         | A (LOT 402B)             |                    | Designer:  | Leo Chen     |        |
|                                                                                                                                                                    |                          |                    | Sales Rep: | Rick DiCiano |        |

### Roof Trusses

| PROFILE                                                                            | QTY<br>PLY | MARK<br>TYPE     | PITCH  | SPAN    | HEIGHT  | LUMBER | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.   | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|------------------------------------------------------------------------------------|------------|------------------|--------|---------|---------|--------|---------------------------|------------------------------|----------------|---------------------|--------------------|
|    | 7          | C1<br>Jack-Open  | 8 / 12 | 1-09-07 | 2-07-02 | 2 x 4  | 1-03-08<br>1-01           | 1-04-13<br>2-07-02           | 63.19<br>39.67 |                     |                    |
|    | 1          | C1S<br>Jack-Open | 8 / 12 | 1-09-07 | 3-11-02 | 2 x 4  | 1-03-08<br>1-01           | 2-08-13<br>3-11-02           | 11.35<br>7.50  |                     |                    |
|    | 6          | C2<br>Jack-Open  | 8 / 12 | 1-10-08 | 3-11-02 | 2 x 4  | 1-03-08<br>1-10-15        | 1-04-13<br>2-07-13           | 70.6<br>46.00  |                     |                    |
|   | 1          | C2S<br>Jack-Open | 8 / 12 | 1-10-08 | 5-03-02 | 2 x 4  | 1-03-08<br>1-10-15        | 2-08-13<br>3-11-13           | 14.09<br>9.50  |                     |                    |
|  | 6          | C5<br>Jack-Open  | 8 / 12 | 1-09-07 | 2-07-02 | 2 x 4  | 1-03-08<br>4-01-01        | 1-04-13<br>2-07-02           | 81.53<br>50.00 |                     |                    |
|  | 1          | C5S<br>Jack-Open | 8 / 12 | 1-09-07 | 3-11-02 | 2 x 4  | 1-03-08<br>4-01-01        | 2-08-13<br>3-11-02           | 15.91<br>10.17 |                     |                    |
|  | 6          | C6<br>Jack-Open  | 8 / 12 | 3-09-07 | 3-11-02 | 2 x 4  | 1-03-08<br>2-01-01        | 1-04-13<br>3-11-02           | 97.97<br>62.00 |                     |                    |
|  | 1          | C6S<br>Jack-Open | 8 / 12 | 3-09-07 | 5-03-02 | 2 x 4  | 1-03-08<br>2-01-01        | 2-08-13<br>5-03-02           | 18.65<br>12.17 |                     |                    |
|  | 1          | C7<br>Jack-Open  | 8 / 12 | 1-09-07 | 2-07-02 | 2 x 4  | 1-03-08<br>1-01-09        | 1-04-13<br>2-07-02           | 10.21<br>6.33  |                     |                    |

TOTAL # TRUSS= 115

TOTAL BFT OF ALL TRUSSES= 2727.33

BFT.

TOTAL WEIGHT OF ALL TRSSES 4282.02 LBS

### HARDWARE

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 1   | Hardware | HGUS26-2 |        |
| 9   | Hardware | LJS26DS  |        |
| 10  | Hardware | LUS24    |        |
| 1   | Hardware | LUS26-2  |        |

TOTAL NUMBER OF ITEMS= 21

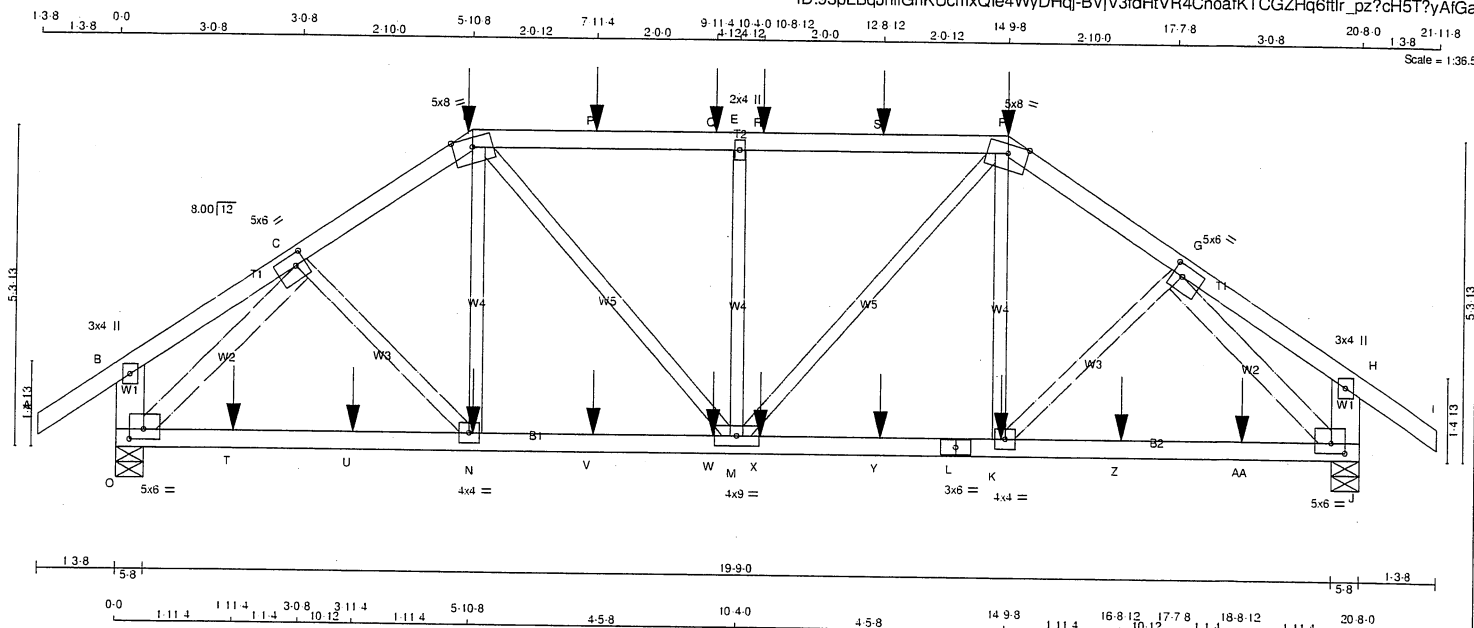
|                           |                         |                      |                 |                                        |          |
|---------------------------|-------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b> | TRUSS NAME<br><b>T1</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
| TRUSS DESC.               |                         |                      |                 |                                        |          |

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MTek Industries, Inc. Wed Dec 9 16:36:25 2020 Page 1

ID:93pLBqjnlGnKUCmxQle4WyDHqj-BVjV3dHtVR4CnoafKTGZHQ6ftr\_pz?ch5T?yAIGa

Scale = 1:36.5



TOTAL WEIGHT = 2 X 94 = 189 lb

#### LUMBER

N. L. G. A. RULES

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

| ALL WEBS EXCEPT | SIZE | LUMBER   | DESCR. |
|-----------------|------|----------|--------|
| O - C           | 2x4  | DRY No.2 | SPF    |
| G - J           | 2x4  | DRY No.2 | SPF    |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWW-t  | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| D  | TTWW-m  | MT20   | 5.0 | 8.0 | Edge |      |
| E  | TMW-w   | MT20   | 2.0 | 4.0 |      |      |
| F  | TTWW-m  | MT20   | 5.0 | 8.0 | Edge |      |
| G  | TMWW-t  | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| H  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| J  | BMWV1-t | MT20   | 5.0 | 6.0 | 2.00 | 2.75 |
| K  | BMWW-t  | MT20   | 4.0 | 4.0 |      |      |
| L  | BS-t    | MT20   | 3.0 | 6.0 |      |      |
| M  | BMWW-t  | MT20   | 4.0 | 9.0 |      |      |
| N  | BMWW-t  | MT20   | 4.0 | 4.0 |      |      |
| O  | BMWV1-t | MT20   | 5.0 | 6.0 | 2.00 | 2.75 |

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

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ      |
| O  | 2767                    | 0                               | 2767      | 0         |
| J  | 2767                    | 0                               | 2767      | 0         |

##### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED | MAX. SNOW | MIN. LIVE | MAX. PERM. LIVE | WIND | DEAD | SOIL |
|----|--------------------|-----------|-----------|-----------------|------|------|------|
| O  | 1937               | 1382      | 0         | 0               | 0    | 555  | 0    |
| J  | 1937               | 1382      | 0         | 0               | 0    | 555  | 0    |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.20 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) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (PLF) |
| FR-TO  |                           |                           | FR-TO |                           |                                |
| A-B    | 0 / 43                    | -112.4 -112.4 0.17 (1)    | N-D   | 0 / 252                   | 0.07 (4)                       |
| B-C    | 0 / 16                    | -112.4 -112.4 0.13 (1)    | D-M   | 0 / 341                   | 0.23 (1)                       |
| C-D    | -3151 / 0                 | -112.4 -112.4 0.27 (1)    | M-F   | -660 / 0                  | 0.29 (1)                       |
| D-P    | -3233 / 0                 | -112.4 -112.4 0.62 (1)    | F-G   | 0 / 941                   | 0.23 (1)                       |
| P-Q    | -3233 / 0                 | -112.4 -112.4 0.62 (1)    | K-F   | 0 / 252                   | 0.07 (4)                       |
| Q-E    | -3233 / 0                 | -112.4 -112.4 0.62 (1)    | C-N   | 0 / 390                   | 0.10 (1)                       |
| E-R    | -3233 / 0                 | -112.4 -112.4 0.62 (1)    | O-C   | -3349 / 0                 | 0.69 (1)                       |
| R-S    | -3233 / 0                 | -112.4 -112.4 0.62 (1)    | K-G   | 0 / 390                   | 0.10 (1)                       |
| S-F    | -3233 / 0                 | -112.4 -112.4 0.62 (1)    | G-J   | -3349 / 0                 | 0.69 (1)                       |
| F-G    | -3151 / 0                 | -112.4 -112.4 0.27 (1)    |       |                           |                                |
| G-H    | 0 / 16                    | -112.4 -112.4 0.13 (1)    |       |                           |                                |
| H-I    | 0 / 43                    | -112.4 -112.4 0.17 (1)    |       |                           |                                |
| O-B    | -290 / 0                  | 0.0 0.0 0.02 (1)          |       |                           |                                |
| J-H    | -290 / 0                  | 0.0 0.0 0.02 (1)          |       |                           |                                |
| O-T    | 0 / 2326                  | -18.5 -18.5 0.63 (1)      |       |                           |                                |
| T-U    | 0 / 2326                  | -18.5 -18.5 0.63 (1)      |       |                           |                                |
| U-N    | 0 / 2326                  | -18.5 -18.5 0.63 (1)      |       |                           |                                |
| N-V    | 0 / 2608                  | -18.5 -18.5 0.77 (1)      |       |                           |                                |
| V-W    | 0 / 2608                  | -18.5 -18.5 0.77 (1)      |       |                           |                                |
| W-M    | 0 / 2608                  | -18.5 -18.5 0.77 (1)      |       |                           |                                |
| M-X    | 0 / 2608                  | -18.5 -18.5 0.77 (1)      |       |                           |                                |
| X-Y    | 0 / 2608                  | -18.5 -18.5 0.77 (1)      |       |                           |                                |
| Y-L    | 0 / 2608                  | -18.5 -18.5 0.77 (1)      |       |                           |                                |
| L-K    | 0 / 2608                  | -18.5 -18.5 0.77 (1)      |       |                           |                                |
| K-Z    | 0 / 2326                  | -18.5 -18.5 0.63 (1)      |       |                           |                                |
| Z-AA   | 0 / 2326                  | -18.5 -18.5 0.63 (1)      |       |                           |                                |
| AA-J   | 0 / 2326                  | -18.5 -18.5 0.63 (1)      |       |                           |                                |

##### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| D  | 5-10-8  | -303 | -303 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| F  | 14-9-8  | -303 | -303 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| K  | 14-8-12 | -165 | -165 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| N  | 5-11-4  | -165 | -165 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| P  | 7-11-4  | -14  | -14  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Q  | 9-11-4  | -14  | -14  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| R  | 10-8-12 | -14  | -14  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| S  | 12-8-12 | -14  | -14  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| T  | 1-11-4  | -29  | -29  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| U  | 3-11-4  | -29  | -29  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| V  | 7-11-4  | -165 | -165 | ---  | FRONT | VERT | TOTAL | ---  | C1    |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 32.5 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 45.9 | PSF |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.69")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")  
ALLOWABLE DEFL.(TL) = L/360 (0.69")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI: TC=0.62/1.00 (D-E:1), BC=0.77/1.00 (K-M:1),  
WB=0.69/1.00 (G-J:1), SS=0.32/1.00 (M-N:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

##### NAIL VALUES

| PLATE   | GRIP(DRY) | SHEAR    | SECTION   |
|---------|-----------|----------|-----------|
| (PSI)   | (PLI)     | (PLI)    |           |
| MAX MIN | MAX MIN   | MAX MIN  |           |
| MT20    | 650 371   | 1747 788 | 1987 1873 |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.89 (C) (INPUT = 0.90)

JSI METAL = 0.80 (L) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only  
DWG# T-2028250 1/2

|                    |                  |               |          |                                 |             |          |
|--------------------|------------------|---------------|----------|---------------------------------|-------------|----------|
| JOB NAME<br>415008 | TRUSS NAME<br>T1 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>BAYVIEW WELLINGTON | TRUSS DESC. | DRWG NO. |
|--------------------|------------------|---------------|----------|---------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 Mitek Industries, Inc. Wed Dec 9 16:36:25 2020 Page 2  
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SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| W  | 9-11-4  | -165 | -165 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| X  | 10-8-12 | -165 | -165 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Y  | 12-8-12 | -165 | -165 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Z  | 16-8-12 | -29  | -29  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AA | 18-8-12 | -29  | -29  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

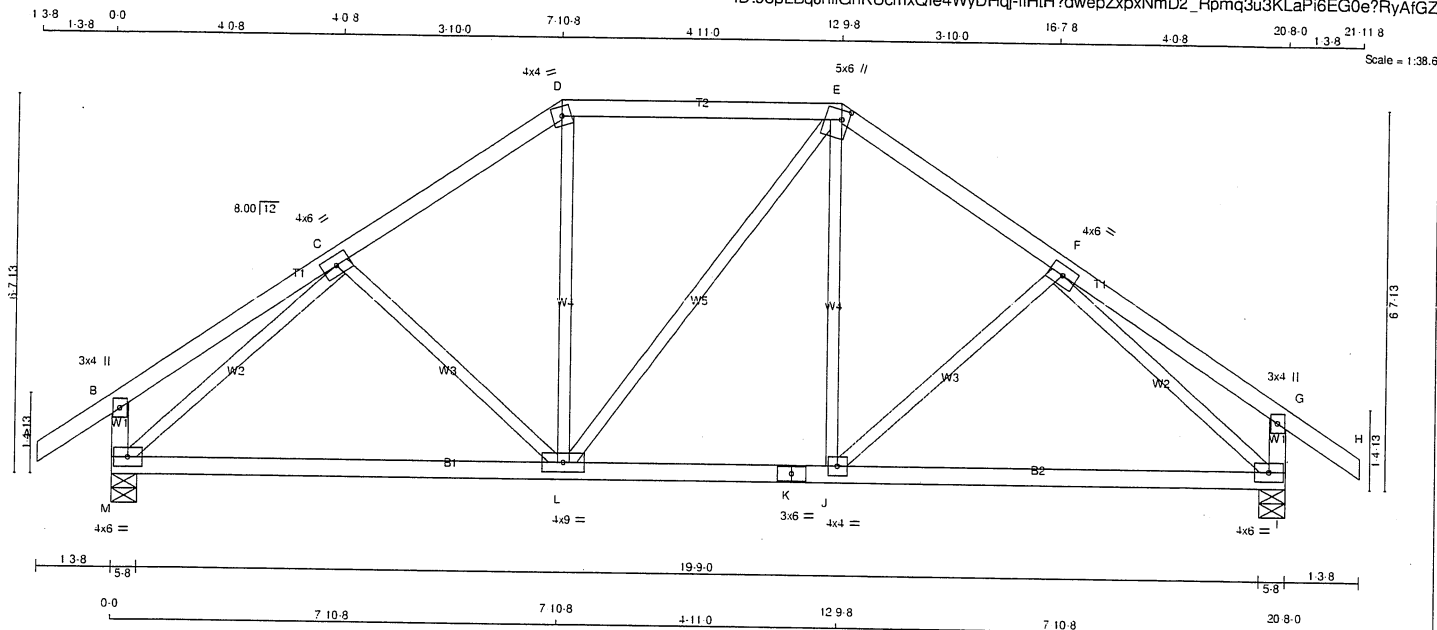


Structural component only  
DWG# T-2028250 012

|                           |                         |                      |                 |                                        |          |
|---------------------------|-------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b> | TRUSS NAME<br><b>T2</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
|---------------------------|-------------------------|----------------------|-----------------|----------------------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MTek Industries, Inc. Wed Dec 9 16:36:26 2020 Page 1  
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TOTAL WEIGHT = 2 X 90 = 179 lb  
(M/F)

| LUMBER            |        |      |        | DESCR. |  |
|-------------------|--------|------|--------|--------|--|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |        |  |
| A - D             | 2x4    | DRY  | No.2   | SPF    |  |
| E - H             | 2x4    | DRY  | No.2   | SPF    |  |
| I - G             | 2x4    | DRY  | No.2   | SPF    |  |
| M - K             | 2x4    | DRY  | No.2   | SPF    |  |
| K - I             | 2x4    | DRY  | No.2   | SPF    |  |

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

| PLATES (table is in inches) |         |        |     |     |           |
|-----------------------------|---------|--------|-----|-----|-----------|
| JT                          | TYPE    | PLATES | W   | LEN | Y X       |
| B                           | TMV-p   | MT20   | 3.0 | 4.0 |           |
| C                           | TMWW-t  | MT20   | 4.0 | 6.0 |           |
| D                           | TMW-m   | MT20   | 4.0 | 4.0 |           |
| E                           | TTWW-m  | MT20   | 5.0 | 6.0 | 2.00 1.50 |
| F                           | TMWW-t  | MT20   | 4.0 | 6.0 |           |
| G                           | TMV-p   | MT20   | 3.0 | 4.0 |           |
| I                           | BMVW1-t | MT20   | 4.0 | 6.0 |           |
| J                           | BMWW-t  | MT20   | 4.0 | 4.0 |           |
| K                           | BS-t    | MT20   | 3.0 | 6.0 |           |
| L                           | BMWWW-t | MT20   | 4.0 | 9.0 |           |
| M                           | BMVW1-t | MT20   | 4.0 | 6.0 |           |

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

| FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG |        | REQD BRG |       |
|-------------------------|------|---------------------------------|------|-----------|--------|----------|-------|
| JT                      | VERT | HORZ                            | DOWN | HORZ      | UPLIFT | IN-SX    | IN-SX |
| M                       | 1507 | 0                               | 1507 | 0         | 0      | 5-8      | 5-8   |
| I                       | 1507 | 0                               | 1507 | 0         | 0      | 5-8      | 5-8   |

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX. MIN. COMPONENT REACTIONS |      |            |      |      |      |
|----|-----------|-------------------------------|------|------------|------|------|------|
| M  | COMBINED  | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
| I  | 1054      | 760                           | 0    | 0          | 0    | 293  | 0    |
| I  | 1054      | 760                           | 0    | 0          | 0    | 293  | 0    |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.43 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                        | WEBS  |                           |                        |          |
|--------|---------------------------|---------------------------|------------------------|-------|---------------------------|------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |          |
| FR-TO  |                           | FROM TO                   | LENGTH                 | FR-TO |                           |                        |          |
| A-B    | 0 43                      | -112.4 -112.4             | 0.15 (1)               | 10.00 | C-L                       | -189 4                 | 0.10 (1) |
| B-C    | 0 28                      | -112.4 -112.4             | 0.27 (1)               | 10.00 | L-D                       | 0 256                  | 0.06 (1) |
| C-D    | -1292 0                   | -112.4 -112.4             | 0.23 (1)               | 5.43  | L-E                       | 0 0                    | 0.00 (1) |
| D-E    | -1054 0                   | -112.4 -112.4             | 0.36 (1)               | 5.66  | J-E                       | 0 255                  | 0.06 (1) |
| E-F    | -1291 0                   | -112.4 -112.4             | 0.23 (1)               | 5.43  | J-F                       | -189 4                 | 0.10 (1) |
| F-G    | 0 28                      | -112.4 -112.4             | 0.27 (1)               | 10.00 | M-C                       | -1633 0                | 0.77 (1) |
| G-H    | 0 43                      | -112.4 -112.4             | 0.15 (1)               | 10.00 | F-I                       | -1633 0                | 0.77 (1) |
| M-B    | -325 0                    | 0.0 0.0                   | 0.03 (1)               | 7.81  |                           |                        |          |
| I-G    | -325 0                    | 0.0 0.0                   | 0.03 (1)               | 7.81  |                           |                        |          |
| M-L    | 0 1189                    | -18.5 -18.5               | 0.34 (1)               | 10.00 |                           |                        |          |
| L-K    | 0 1054                    | -18.5 -18.5               | 0.29 (4)               | 10.00 |                           |                        |          |
| K-J    | 0 1054                    | -18.5 -18.5               | 0.29 (4)               | 10.00 |                           |                        |          |
| J-I    | 0 1189                    | -18.5 -18.5               | 0.34 (1)               | 10.00 |                           |                        |          |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 32.5 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 45.9 PSF

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.69")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.04")  
ALLOWABLE DEFL.(TL)= L/360 (0.69")  
CALCULATED VERT. DEFL.(TL)= L/999 (0.15")

CSI: TC=0.36:1.00 (D-E:1), BC=0.34:1.00 (J-I:1), WB=0.77:1.00 (C-M:1), SS=0.22:1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

| NAIL VALUES |           |       |         |     |      |
|-------------|-----------|-------|---------|-----|------|
| PLATE       | GRIP(DRY) | SHEAR | SECTION |     |      |
| (PSI)       | (PLI)     | (PLI) |         |     |      |
| MAX         | MIN       | MAX   | MIN     | MAX | MIN  |
| MT20        | 650       | 371   | 1747    | 788 | 1987 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (M) (INPUT = 0.90)  
JSI METAL= 0.45 (K) (INPUT = 1.00)

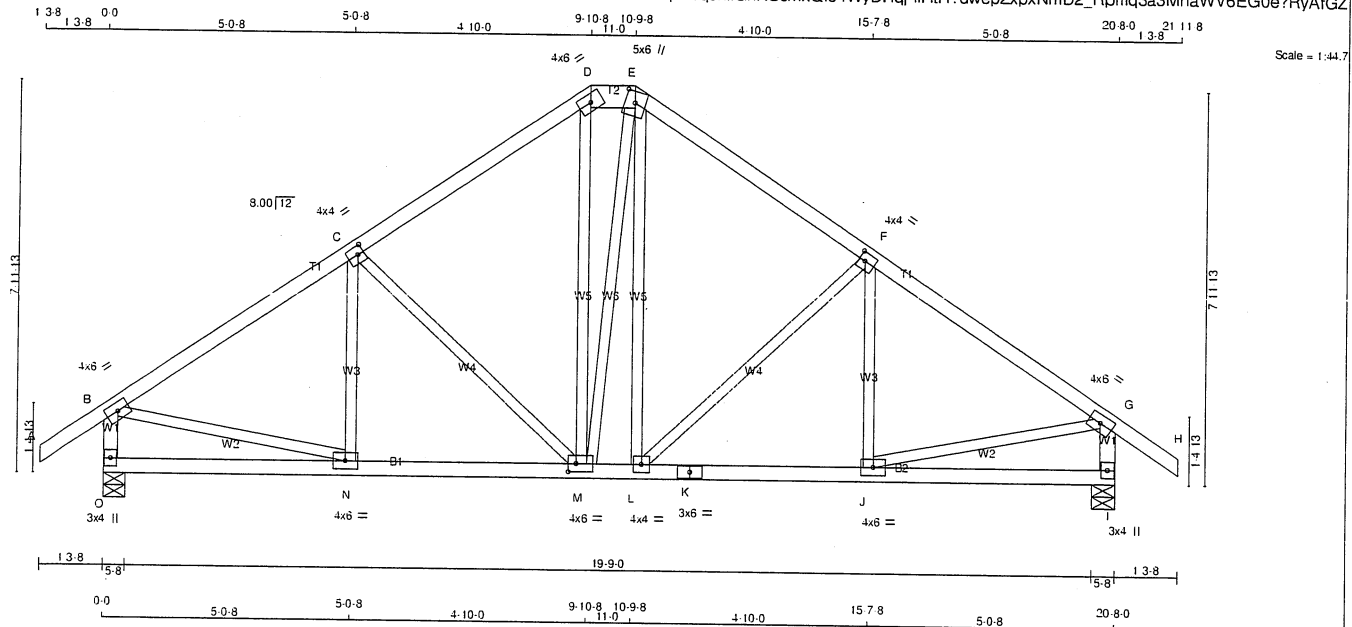


Structural component only  
DWG# T-2028251

|                           |                         |                      |                 |                                        |          |
|---------------------------|-------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b> | TRUSS NAME<br><b>T3</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
|---------------------------|-------------------------|----------------------|-----------------|----------------------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MTek Industries, Inc. Wed Dec 9 16:36:26 2020 Page 1  
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Scale = 1:44.7

| LUMBER                |        |      |        | DESCR. |  |
|-----------------------|--------|------|--------|--------|--|
| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER |        |  |
| A - D                 | 2x4    | DRY  | No.2   | SPF    |  |
| D - E                 | 2x6    | DRY  | No.2   | SPF    |  |
| E - H                 | 2x4    | DRY  | No.2   | SPF    |  |
| O - B                 | 2x4    | DRY  | No.2   | SPF    |  |
| I - G                 | 2x4    | DRY  | No.2   | SPF    |  |
| O - K                 | 2x4    | DRY  | No.2   | SPF    |  |
| K - I                 | 2x4    | DRY  | No.2   | SPF    |  |
| ALL WEBS              | 2x3    | DRY  | No.2   | SPF    |  |
| EXCEPT                |        |      |        |        |  |
| DRY: SEASONED LUMBER. |        |      |        |        |  |

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-t | MT20   | 4.0 | 6.0 |      |      |
| C  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D  | TTW-h  | MT20   | 4.0 | 6.0 |      |      |
| E  | TTWW+m | MT20   | 5.0 | 6.0 | 2.75 | 2.50 |
| F  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| G  | TMVW-t | MT20   | 4.0 | 6.0 |      |      |
| I  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| J  | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| K  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| L  | BMVW-t | MT20   | 4.0 | 4.0 |      |      |
| M  | BMVW-t | MT20   | 4.0 | 6.0 | 2.00 | 2.00 |
| N  | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| O  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

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

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG |       | REQD BRG |       |
|----|-------------------------|------|---------------------------------|------|-----------|-------|----------|-------|
|    | VERT                    | HORZ | DOWN                            | HORZ | IN-SX     | IN-SX | IN-SX    | IN-SX |
| O  | 1507                    | 0    | 1507                            | 0    | 5-8       | 5-8   | 5-8      | 5-8   |
| I  | 1507                    | 0    | 1507                            | 0    | 5-8       | 5-8   | 5-8      | 5-8   |

##### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED |      | MAX./MIN. COMPONENT REACTIONS |      |      |      |   |   |   |
|----|--------------------|------|-------------------------------|------|------|------|---|---|---|
|    | SNOW               | LIVE | PERM.LIVE                     | WIND | DEAD | SOIL |   |   |   |
| O  | 1054               | 760  | 0                             | 0    | 0    | 293  | 0 | 0 | 0 |
| I  | 1054               | 760  | 0                             | 0    | 0    | 293  | 0 | 0 | 0 |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.99 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. UNBRACED LENGTH (LC) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           | FROM TO                   |                           | FR-TO |                           |
| A-B    | 0 43                      | -112.4 -112.4 0.15 (1)    | 10.00                     | N-C   | -170 40                   |
| B-C    | -1457 0                   | -112.4 -112.4 0.38 (1)    | 4.99                      | C-M   | -438 0                    |
| C-D    | -1144 0                   | -112.4 -112.4 0.37 (1)    | 5.49                      | M-D   | 0 355                     |
| D-E    | -918 0                    | -112.4 -112.4 0.01 (1)    | 6.25                      | M-E   | 0 23                      |
| E-F    | -1140 0                   | -112.4 -112.4 0.37 (1)    | 5.50                      | L-E   | 0 330                     |
| F-G    | -1459 0                   | -112.4 -112.4 0.38 (1)    | 4.99                      | L-F   | -445 0                    |
| G-H    | 0 43                      | -112.4 -112.4 0.15 (1)    | 10.00                     | J-F   | -163 43                   |
| O-B    | -1467 0                   | 0.0 0.0 0.15 (1)          | 6.76                      | B-N   | 0 1271                    |
| I-G    | -1468 0                   | 0.0 0.0 0.15 (1)          | 6.76                      | J-G   | 0 1272                    |
| O-N    | 0 0                       | -18.5 -18.5 0.11 (4)      | 10.00                     |       |                           |
| N-M    | 0 1242                    | -18.5 -18.5 0.25 (1)      | 10.00                     |       |                           |
| M-L    | 0 915                     | -18.5 -18.5 0.20 (1)      | 10.00                     |       |                           |
| L-K    | 0 1244                    | -18.5 -18.5 0.25 (1)      | 10.00                     |       |                           |
| K-J    | 0 1244                    | -18.5 -18.5 0.25 (1)      | 10.00                     |       |                           |
| J-I    | 0 0                       | -18.5 -18.5 0.11 (4)      | 10.00                     |       |                           |

TOTAL WEIGHT = 2 X 101 = 202 lb [M/F]

##### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |      |      |     |
|------------|----|------|------|-----|
| TOP CH.    | LL | =    | 32.5 | PSF |
| DL         | =  | 6.0  | PSF  |     |
| BOT CH.    | LL | =    | 0.0  | PSF |
| DL         | =  | 7.4  | PSF  |     |
| TOTAL LOAD | =  | 45.9 | PSF  |     |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.69")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL)= L/360 (0.69")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.38/1.00 (F-G:1), BC=0.25/1.00 (J-L:1), WB=0.34/1.00 (F-L:1), SSI=0.23/1.00 (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 = 1.00

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

##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION            |
|-------|-----------|-------|--------------------|
|       | (PSI)     | (PLI) | (PLI)              |
|       | MAX       | MIN   | MAX MIN            |
| MT20  | 650       | 371   | 1747 788 1987 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (G) (INPUT = 0.90)  
JSI METAL= 0.40 (K) (INPUT = 1.00)

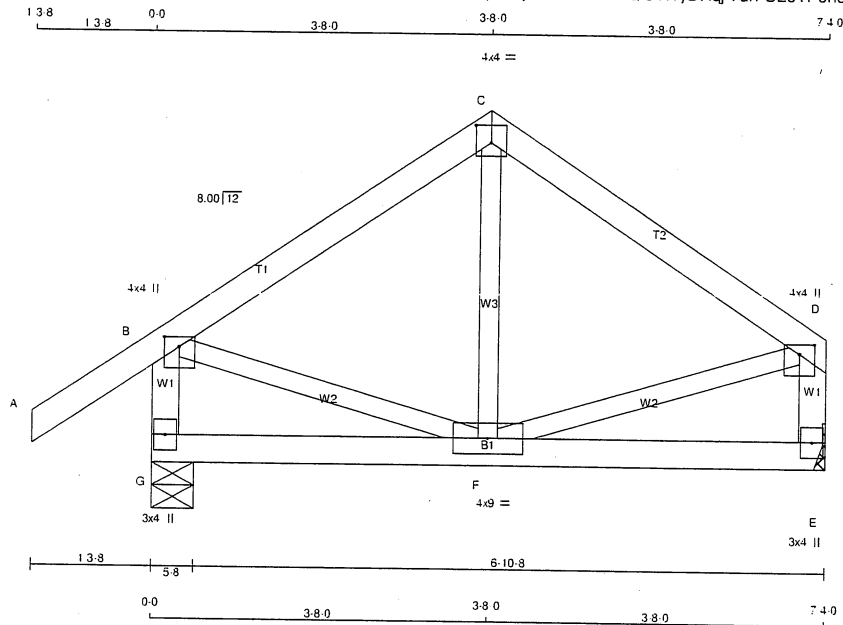


Structural component only  
DWG# T-2028252

|                                 |                         |                      |                 |                                        |          |
|---------------------------------|-------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b>       | TRUSS NAME<br><b>T4</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 | TRUSS DESC.                            |          |

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Scale: 1/2"=1'

TOTAL WEIGHT = 2 X 31 = 62 lb [M/F]

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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |         |        |     |     |           |
|-----------------------------|---------|--------|-----|-----|-----------|
| JT                          | TYPE    | PLATES | W   | LEN | Y X       |
| B                           | TMVW+p  | MT20   | 4.0 | 4.0 | 1.25 2.00 |
| C                           | TTW-p   | MT20   | 4.0 | 4.0 | 2.25 2.00 |
| D                           | TMVW+p  | MT20   | 4.0 | 4.0 | 1.25 2.00 |
| E                           | BMV1+p  | MT20   | 3.0 | 4.0 |           |
| F                           | BMVWW-t | MT20   | 4.0 | 9.0 |           |
| G                           | BMV1+p  | MT20   | 3.0 | 4.0 |           |

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| G  | 634                     | 0    | 634                             | 0    | 5-8             | 5-8            |
| E  | 480                     | 0    | 480                             | 0    | MECHANICAL      |                |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 1-8.

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |      |            |      |       |      |
|----|----------|-------------------------------|------|------------|------|-------|------|
|    | COMBINED | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
| G  | 442      | 327 / 0                       | 0 0  | 0 0        | 0 0  | 115 0 | 0 0  |
| E  | 336      | 238 / 0                       | 0 0  | 0 0        | 0 0  | 98 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                   |               | FR-TO |                           |               |  |
| A-B    | 0 43                      | -112.4 -112.4             | 0.15 (1)      | F-C   | -70 46                    | 0.02 (4)      |  |
| B-C    | -309 0                    | -112.4 -112.4             | 0.19 (1)      | B-F   | 0 268                     | 0.06 (1)      |  |
| C-D    | -309 0                    | -112.4 -112.4             | 0.19 (1)      | F-D   | 0 268                     | 0.06 (1)      |  |
| G-B    | -607 0                    | 0.0 0.0                   | 0.06 (1)      |       |                           |               |  |
| E-D    | -453 0                    | 0.0 0.0                   | 0.05 (1)      |       |                           |               |  |
| G-F    | 0 0                       | -18.5 -18.5               | 0.07 (4)      |       |                           |               |  |
| F-E    | 0 0                       | -18.5 -18.5               | 0.07 (4)      |       |                           |               |  |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 32.5 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 45.9 | PSF |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.24")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.24")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.19/1.00 (C-D:1), BC=0.07/1.00 (E-F:4),  
WB=0.06/1.00 (D-F:1), SSI=0.13/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

#### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION            |
|-------|-----------|-------|--------------------|
| (PSI) | (PLI)     | (PLI) |                    |
|       | MAX       | MIN   | MAX MIN            |
| MT20  | 650       | 371   | 1747 788 1987 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.40 (B) (INPUT = 0.90)

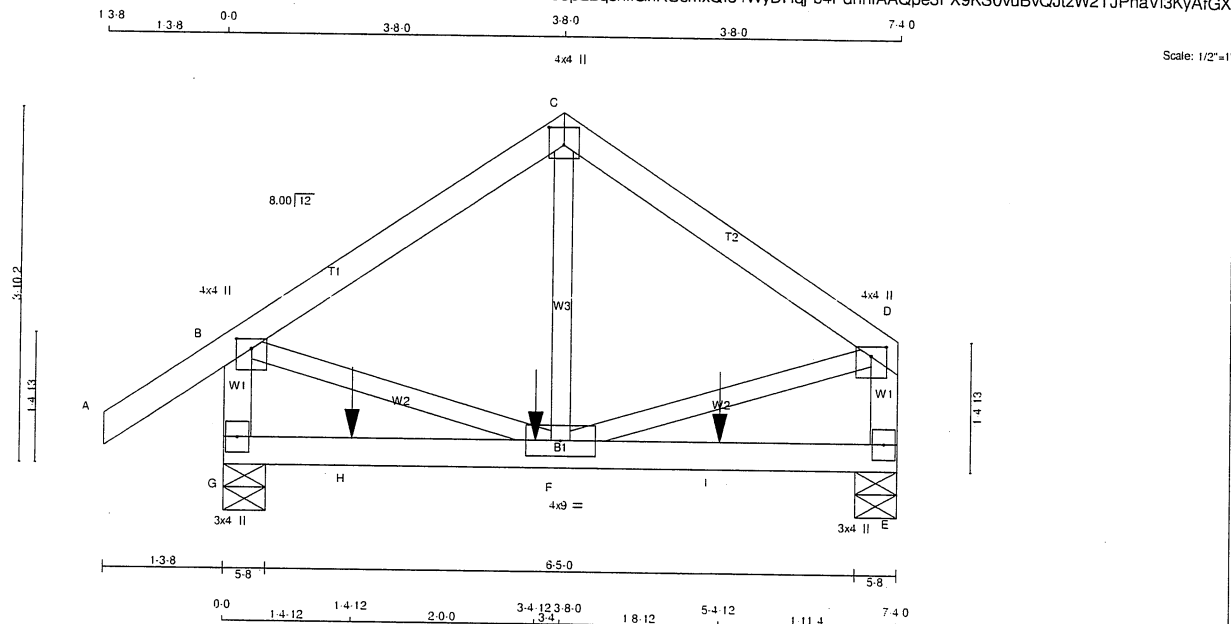
JSI METAL= 0.12 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2028253

|                                 |                          |                      |                 |                                        |          |
|---------------------------------|--------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b>       | TRUSS NAME<br><b>T4Z</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                            |          |

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TOTAL WEIGHT = 31 lb  
(M)

#### LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2  
EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| C  | TTW+p   | MT20   | 4.0 | 4.0 | 2.25 | 2.00 |
| D  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| E  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| F  | BMVWW+1 | MT20   | 4.0 | 9.0 |      |      |
| G  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |

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

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REORD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|-----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                 |
| G  | 1347                    | 0    | 1347                            | 0    | 5-8             | 5-8             |
| E  | 1037                    | 0    | 1037                            | 0    | 5-8             | 5-8             |

##### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX. MIN. COMPONENT REACTIONS |      |            |      |       |      |
|-----------|----------|-------------------------------|------|------------|------|-------|------|
| JT        | COMBINED | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
| G         | 936      | 707 0                         | 0 0  | 0 0        | 0 0  | 230 0 | 0 0  |
| E         | 724      | 531 0                         | 0 0  | 0 0        | 0 0  | 193 0 | 0 0  |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.07 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS         |                           |                       |  |
|--------|---------------------------|---------------------------|---------------------------|--------------|---------------------------|-----------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX FACTORED CSI (LC) | MEMB.        | MAX. FACTORED FORCE (LBS) | MAX FACTORED CSI (LC) |  |
| FR-TO  |                           | FROM TO                   |                           | LENGTH FR-TO |                           |                       |  |
| A-B    | 0 43                      | -112.4 -112.4             | 0.17 (1)                  | 10.00        | F-C                       | 0 574 0.14 (1)        |  |
| B-C    | -889 0                    | -112.4 -112.4             | 0.30 (1)                  | 6.07         | B-F                       | 0 771 0.19 (1)        |  |
| C-D    | -889 0                    | -112.4 -112.4             | 0.30 (1)                  | 6.07         | F-D                       | 0 771 0.19 (1)        |  |
| G-B    | -1071 0                   | 0.0 0.0                   | 0.12 (1)                  | 7.58         |                           |                       |  |
| E-D    | -917 0                    | 0.0 0.0                   | 0.10 (1)                  | 7.81         |                           |                       |  |
|        |                           |                           |                           |              |                           |                       |  |
| G-H    | 0 0                       | -18.5 -18.5               | 0.55 (1)                  | 10.00        |                           |                       |  |
| H-F    | 0 0                       | -18.5 -18.5               | 0.55 (1)                  | 10.00        |                           |                       |  |
| F-I    | 0 0                       | -18.5 -18.5               | 0.43 (1)                  | 10.00        |                           |                       |  |
| I-E    | 0 0                       | -18.5 -18.5               | 0.43 (1)                  | 10.00        |                           |                       |  |

##### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|------|------|------|------|------|-------|------|-------|
| F  | 3-4-12 | -280 | -280 | ---  | TOP  | VERT | TOTAL | ---  | C1    |
| H  | 1-4-12 | -358 | -358 | ---  | TOP  | VERT | TOTAL | ---  | C1    |
| I  | 5-4-12 | -244 | -244 | ---  | TOP  | VERT | TOTAL | ---  | C1    |

##### CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 32.5 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 45.9 | PSF |

##### SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.24")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL)= L/360 (0.24")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.30/1.00 (B-C:1), BC=0.55/1.00 (F-G:1),  
WB=0.19/1.00 (D-F:1), SSI=0.27/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION            |
|-------|-----------|-------|--------------------|
|       | (PSI)     | (PLI) | (PLI)              |
| MT20  | 650       | 371   | 1747 788 1987 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.81 (D) (INPUT = 0.90)

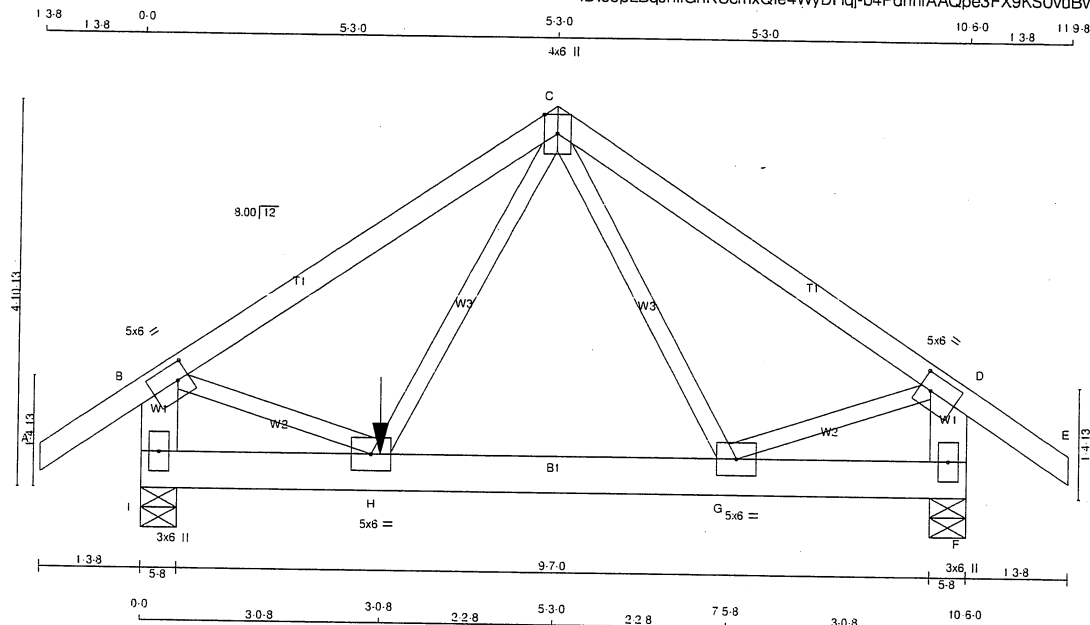
JSI METAL = 0.24 (D) (INPUT = 1.00)



Structural component only  
DWG# T-2028254

|                                 |                         |                      |                 |                                        |          |
|---------------------------------|-------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b>       | TRUSS NAME<br><b>T5</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 |                                        |          |

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Scale = 1:27.9

#### LUMBER

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

| CHORDS | SIZE | DRY | No.2 |
|--------|------|-----|------|
| A - C  | 2x4  | DRY | No.2 |
| C - E  | 2x4  | DRY | No.2 |
| I - B  | 2x6  | DRY | No.2 |
| F - D  | 2x6  | DRY | No.2 |
| I - F  | 2x6  | DRY | No.2 |

ALL WEBS 2x3 DRY  
DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 1.75 |
| C  | TTWW+p | MT20   | 4.0 | 6.0 | Edge |      |
| D  | TMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 1.75 |
| F  | BMV1+p | MT20   | 3.0 | 6.0 |      |      |
| G  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| H  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| I  | BMV1+p | MT20   | 3.0 | 6.0 |      |      |

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

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

##### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| I  | 1605                    | 1605                            | 5-8       | 5-8      |
| F  | 1153                    | 1153                            | 5-8       | 5-8      |

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX. MIN. COMPONENT REACTIONS | SOIL |
|----|-----------|-------------------------------|------|
| I  | 1119      | 824.0                         | 0.0  |
| F  | 804       | 591.0                         | 0.0  |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.56 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) |
|-------|---------|---------------------------|---------------------------|---------------------------|-------|-------|---------------------------|---------------------------|
| A-B   | 0.43    | -112.4                    | -112.4                    | 0.17 (1)                  | 10.00 | H-C   | 0.815                     | 0.20 (1)                  |
| B-C   | -1334.0 | -112.4                    | -112.4                    | 0.68 (1)                  | 4.56  | B-H   | 0.1168                    | 0.29 (1)                  |
| C-D   | -831.0  | -112.4                    | -112.4                    | 0.63 (1)                  | 5.55  | C-G   | -134.27                   | 0.06 (1)                  |
| D-E   | 0.43    | -112.4                    | -112.4                    | 0.17 (1)                  | 10.00 | G-D   | 0.728                     | 0.18 (1)                  |
| I-B   | -1553.0 | 0.0                       | 0.0                       | 0.11 (1)                  | 7.81  |       |                           |                           |
| F-D   | -1137.0 | 0.0                       | 0.0                       | 0.08 (1)                  | 7.81  |       |                           |                           |
| I-H   | 0.0     | -18.5                     | -18.5                     | 0.05 (1)                  | 10.00 |       |                           |                           |
| H-G   | 0.751   | -18.5                     | -18.5                     | 0.16 (1)                  | 10.00 |       |                           |                           |
| G-F   | 0.0     | -18.5                     | -18.5                     | 0.03 (4)                  | 10.00 |       |                           |                           |

##### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.  | LC1  | MAX. | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|-------|------|------|------|------|------|-------|------|-------|
| H  | 3-0-8 | -749 | -749 | ---  | BACK | VERT | TOTAL | ---  | C1    |

##### CONNECTION REQUIREMENTS

- C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

TOTAL WEIGHT = 52 lb

[M]

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|                       |               |
|-----------------------|---------------|
| TOP CH.               | LL = 32.5 PSF |
| DL = 6.0 PSF          |               |
| BOT CH.               | LL = 0.0 PSF  |
| DL = 7.4 PSF          |               |
| TOTAL LOAD = 45.9 PSF |               |

##### SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55 % OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.68/1.00 (B-C:1), BC=0.16/1.00 (G-H:1)  
WB=0.29/1.00 (B-H:1), SSI=0.21/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-------|-----------|-------------|---------------|
| MT20  | 650       | 371         | 1747          |
|       | 788       | 1987        | 1873          |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

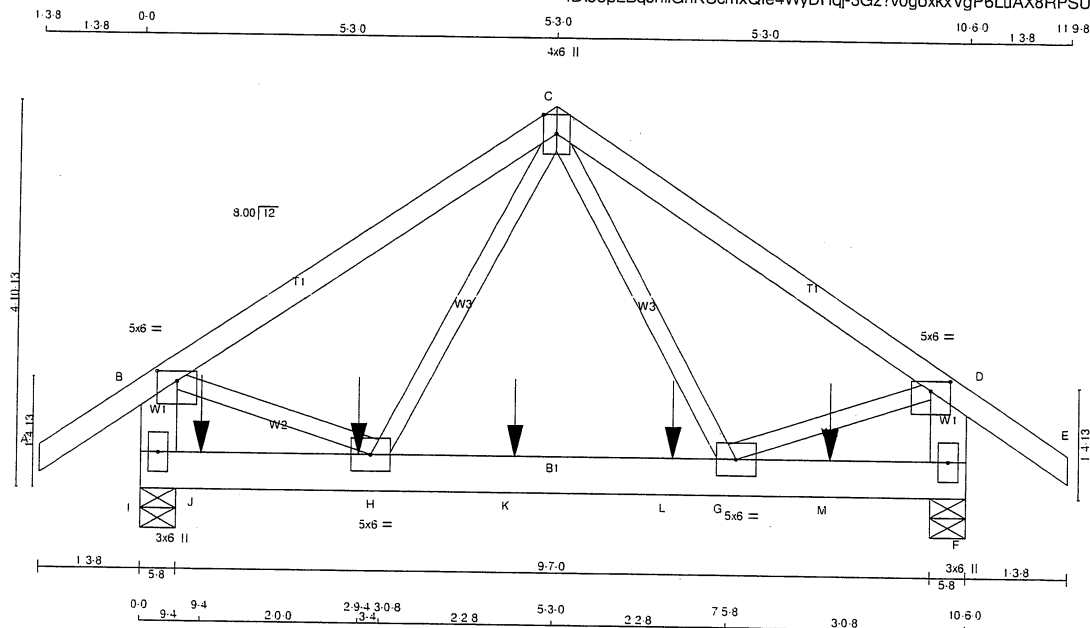
JSI GRIP= 0.85 (B) (INPUT = 0.90)  
JSI METAL= 0.36 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2028255

|                                 |                          |                      |                 |                                        |          |
|---------------------------------|--------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b>       | TRUSS NAME<br><b>T5Z</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                        |          |

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Scale = 1:27.9

#### LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - C 2x4 DRY

C - E 2x4 DRY

I - B 2x6 DRY

F - D 2x6 DRY

I - F 2x6 DRY

ALL WEBS 2x3 DRY

DRY: SEASONED LUMBER.

LUMBER

DESCR.

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

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SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

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

##### BUILDING DESIGNER

##### BEARINGS

FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQD

JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX

I 2005 0 2005 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

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F 1985 0 1985 0 0 5-8 5-8

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F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

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F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

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F 1985 0 1985 0 0 5-8 5-8

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F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

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F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

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F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

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F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

F 1985 0 1985 0 0 5-8 5-8

#### UNFACTORED REACTIONS

1ST LCASE MAX./MIN. COMPONENT REACTIONS

JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL

I 1395 1046 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

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F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

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F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

F 1379 1044 0 0 0 0 0 0 0 0

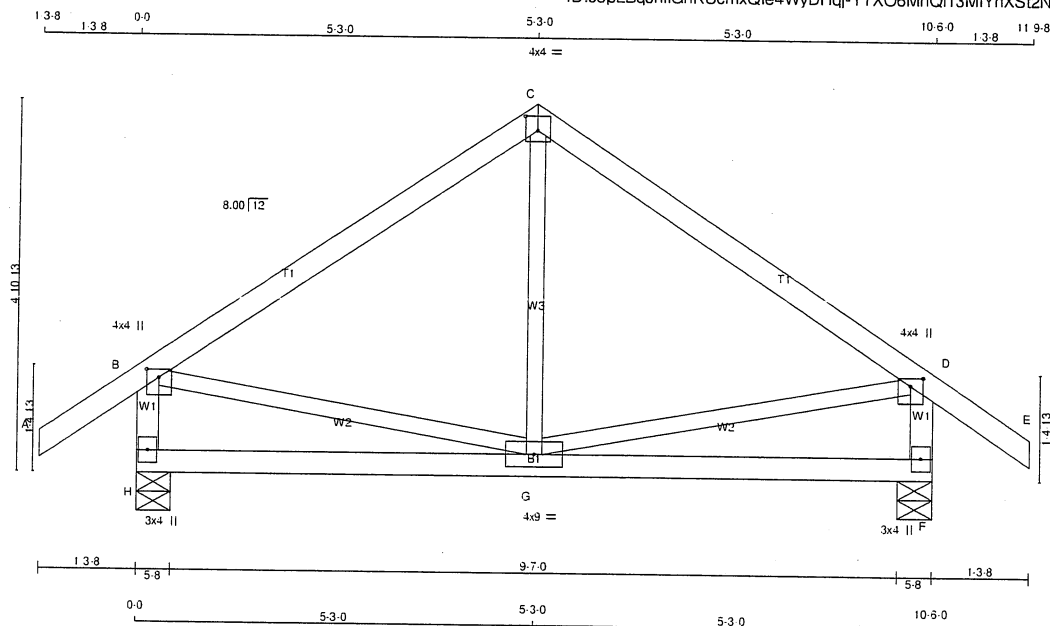
F 1379 1044 0 0 0 0 0 0 0 0

F 1379 104

|          |            |          |     |                    |          |
|----------|------------|----------|-----|--------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.          | DRWG NO. |
| 415008   | T6         | 4        | 1   | BAYVIEW WELLINGTON |          |

Tamarack Roof Truss, Burlington

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Scale = 1:29.0

#### LUMBER

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| C  | TTW-p   | MT20   | 4.0 | 4.0 | 2.25 | 2.00 |
| D  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| F  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| G  | BMVWW-t | MT20   | 4.0 | 9.0 |      |      |
| H  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT | REQD |
|----|-------------------------|---------------------------------|-------|------|
| JT | VERT                    | HORZ                            | DOWN  | HORZ |
| H  | 842                     | 0                               | 842   | 0    |
| F  | 842                     | 0                               | 842   | 0    |

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX. | MIN. | COMPONENT REACTIONS |
|----|-----------|------|------|---------------------|
|    | COMBINED  | SNOW | LIVE | PERM.LIVE           |
| H  | 587       | 430  | 0    | 0                   |
| F  | 587       | 430  | 0    | 0                   |

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

##### 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 | MAX. FACTORED | FACTORED             | W E B S       | MAX. FACTORED     |
|--------|---------------|----------------------|---------------|-------------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD LC1 (PLF) | MAX. CSI (LC) | MEMB. FORCE (LBS) |
| FR-TO  |               | FROM TO              | LENGTH        | FR-TO             |
| A-B    | 0 43          | -112.4 -112.4        | 0.15 (1)      | 10.00             |
| B-C    | -488 0        | -112.4 -112.4        | 0.40 (1)      | 6.25              |
| C-D    | -488 0        | -112.4 -112.4        | 0.40 (1)      | 6.25              |
| D-E    | 0 43          | -112.4 -112.4        | 0.15 (1)      | 10.00             |
| H-B    | -804 0        | 0.0 0.0              | 0.08 (1)      | 7.81              |
| F-D    | -804 0        | 0.0 0.0              | 0.08 (1)      | 7.81              |
| H-G    | 0 0           | -18.5 -18.5          | 0.14 (4)      | 10.00             |
| G-F    | 0 0           | -18.5 -18.5          | 0.14 (4)      | 10.00             |

TOTAL WEIGHT = 4 X 44 = 176 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 32.5 | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 45.9 | PSF |

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.35")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.35")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.40/1.00 (B-C:1), BC=0.14/1.00 (F-G:4), WB=0.09/1.00 (B-G:1), SSI=0.19/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) |         |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 650       | 371   | 1747    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

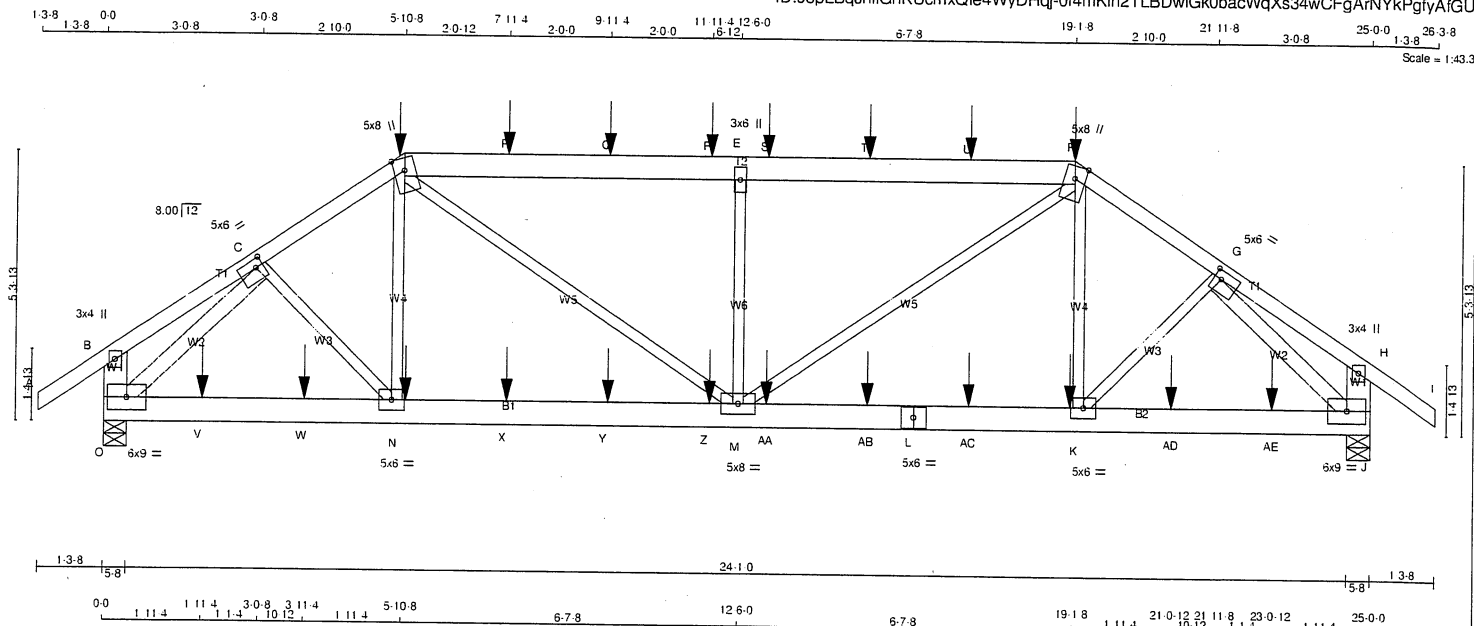
JSI GRIP= 0.57 (D) (INPUT = 0.90)  
JSI METAL= 0.17 (D) (INPUT = 1.00)



Structural component only  
DWG# T-2028257

|                                 |            |          |     |                    |          |
|---------------------------------|------------|----------|-----|--------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.          | DRWG NO. |
| 415008                          | T7         | 1        | 1   | BAYVIEW WELLINGTON |          |
| Tamarack Roof Truss, Burlington |            |          |     |                    |          |

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMVW-t  | MT20   | 5.0 | 6.0 | 2.00 | 1.75 |
| D  | TMVW+m  | MT20   | 5.0 | 8.0 | Edge |      |
| E  | TMVW-w  | MT20   | 3.0 | 6.0 |      |      |
| F  | TMVW+m  | MT20   | 5.0 | 8.0 | Edge |      |
| G  | TMVW-t  | MT20   | 5.0 | 6.0 | 2.00 | 1.75 |
| H  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| J  | BMVW1-t | MT20   | 6.0 | 9.0 |      |      |
| K  | BMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| L  | BS-t    | MT20   | 5.0 | 6.0 |      |      |
| M  | BMVW-t  | MT20   | 5.0 | 8.0 |      |      |
| N  | BMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| O  | BMVW1-t | MT20   | 6.0 | 9.0 |      |      |

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

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

| BEARINGS |                | FACTORED |      | MAXIMUM FACTORED |      | INPUT |     | REQRD |  |
|----------|----------------|----------|------|------------------|------|-------|-----|-------|--|
| JT       | GROSS REACTION | VERT     | HORZ | GROSS REACTION   | DOWN | UP    | BRG | BRG   |  |
| O        | 3306           | 0        | 0    | 3306             | 0    | 0     | 5-8 | 5-8   |  |
| J        | 3306           | 0        | 0    | 3306             | 0    | 0     | 5-8 | 5-8   |  |

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX. MIN. | COMPONENT REACTIONS |      |      |      |      |      |   |
|----|-----------|-----------|---------------------|------|------|------|------|------|---|
| O  | COMBINED  | SNOW      | LIVE                | PERM | LIVE | WIND | DEAD | SOIL |   |
| O  | 2315      | 1650      | 0                   | 0    | 0    | 0    | 665  | 0    | 0 |
| J  | 2315      | 1650      | 0                   | 0    | 0    | 0    | 665  | 0    | 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.21 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED         |               | WEBS  |             | FACTORED      |          |
|--------|-------------|------------------|---------------|-------|-------------|---------------|----------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | MAX. CSI (LC) | MEMB. | FORCE (LBS) | MAX. CSI (LC) |          |
| FR-TO  |             | FROM TO          | UNBRAC LENGTH | FR-TO |             |               |          |
| A-B    | 0 43        | -112.4 -112.4    | 0.17 (1)      | 10.00 | N-D         | 0 268         | 0.08 (4) |
| B-C    | 0 15        | -112.4 -112.4    | 0.13 (1)      | 10.00 | K-F         | 0 268         | 0.08 (4) |
| C-D    | -4003 0     | -112.4 -112.4    | 0.36 (1)      | 3.21  | C-N         | 0 551         | 0.14 (1) |
| D-P    | -4746 0     | -112.4 -112.4    | 0.59 (1)      | 3.39  | O-C         | -4187 0       | 0.82 (1) |
| P-Q    | -4746 0     | -112.4 -112.4    | 0.59 (1)      | 3.39  | K-G         | 0 551         | 0.14 (1) |
| Q-R    | -4746 0     | -112.4 -112.4    | 0.59 (1)      | 3.39  | G-J         | -4187 0       | 0.82 (1) |
| R-E    | -4746 0     | -112.4 -112.4    | 0.59 (1)      | 3.39  | M-F         | 0 1764        | 0.44 (1) |
| E-S    | -4746 0     | -112.4 -112.4    | 0.59 (1)      | 3.39  | D-M         | 0 1764        | 0.44 (1) |
| S-T    | -4746 0     | -112.4 -112.4    | 0.59 (1)      | 3.39  | M-E         | -1025 0       | 0.39 (1) |
| T-U    | -4746 0     | -112.4 -112.4    | 0.59 (1)      | 3.39  |             |               |          |
| U-F    | -4746 0     | -112.4 -112.4    | 0.59 (1)      | 3.39  |             |               |          |
| F-G    | -4003 0     | -112.4 -112.4    | 0.36 (1)      | 3.21  |             |               |          |
| G-H    | 0 15        | -112.4 -112.4    | 0.13 (1)      | 10.00 |             |               |          |
| H-I    | 0 43        | -112.4 -112.4    | 0.17 (1)      | 10.00 |             |               |          |
| O-B    | -291 0      | 0.0              | 0.02 (1)      | 7.81  |             |               |          |
| J-H    | -291 0      | 0.0              | 0.02 (1)      | 7.81  |             |               |          |

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| D  | 5-10-8  | -303 | -303 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| F  | 19-1-8  | -303 | -303 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| K  | 19-0-12 | -165 | -165 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| N  | 5-11-4  | -165 | -165 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| P  | 7-11-4  | -14  | -14  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Q  | 9-11-4  | -14  | -14  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| R  | 11-11-4 | -14  | -14  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| D  | 5-10-8  | -303 | -303 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| F  | 19-1-8  | -303 | -303 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| K  | 19-0-12 | -165 | -165 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| N  | 5-11-4  | -165 | -165 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| P  | 7-11-4  | -14  | -14  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Q  | 9-11-4  | -14  | -14  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| R  | 11-11-4 | -14  | -14  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 32.5 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 45.9 | PSF |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.83")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.15")  
ALLOWABLE DEFL.(TL)= L/360 (0.83")  
CALCULATED VERT. DEFL.(TL)= L/999 (0.26")

CSI: TC=0.59/1.00 (D-E:1), BC=0.81/1.00 (K-M:1), WB=0.82/1.00 (G-J:1), SS=0.35/1.00 (M-N:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

#### NAIL VALUES

| PLATE   | GRIP(DRY) | SHEAR    | SECTION   |
|---------|-----------|----------|-----------|
| (PSI)   | (PLI)     | (PLI)    |           |
| MAX MIN | MAX MIN   | MAX MIN  |           |
| MT20    | 650 371   | 1747 788 | 1987 1873 |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (L) (INPUT = 0.90)

JSI METAL= 0.95 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2028258

|                                 |            |          |     |                    |          |
|---------------------------------|------------|----------|-----|--------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.          | DRWG NO. |
| 415008                          | T7         | 1        | 1   | BAYVIEW WELLINGTON |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.        |          |

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| SPECIFIED CONCENTRATED LOADS (LBS) |         |      |      |      |       |      |       |      |       |
|------------------------------------|---------|------|------|------|-------|------|-------|------|-------|
| JT                                 | LOC.    | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
| S                                  | 13-0-12 | -14  | -14  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| T                                  | 15-0-12 | -14  | -14  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| U                                  | 17-0-12 | -14  | -14  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| V                                  | 1-11-4  | -29  | -29  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| W                                  | 3-11-4  | -29  | -29  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| X                                  | 7-11-4  | -165 | -165 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Y                                  | 9-11-4  | -165 | -165 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Z                                  | 11-11-4 | -165 | -165 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AA                                 | 13-0-12 | -165 | -165 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AB                                 | 15-0-12 | -165 | -165 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AC                                 | 17-0-12 | -165 | -165 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AD                                 | 21-0-12 | -29  | -29  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AE                                 | 23-0-12 | -29  | -29  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



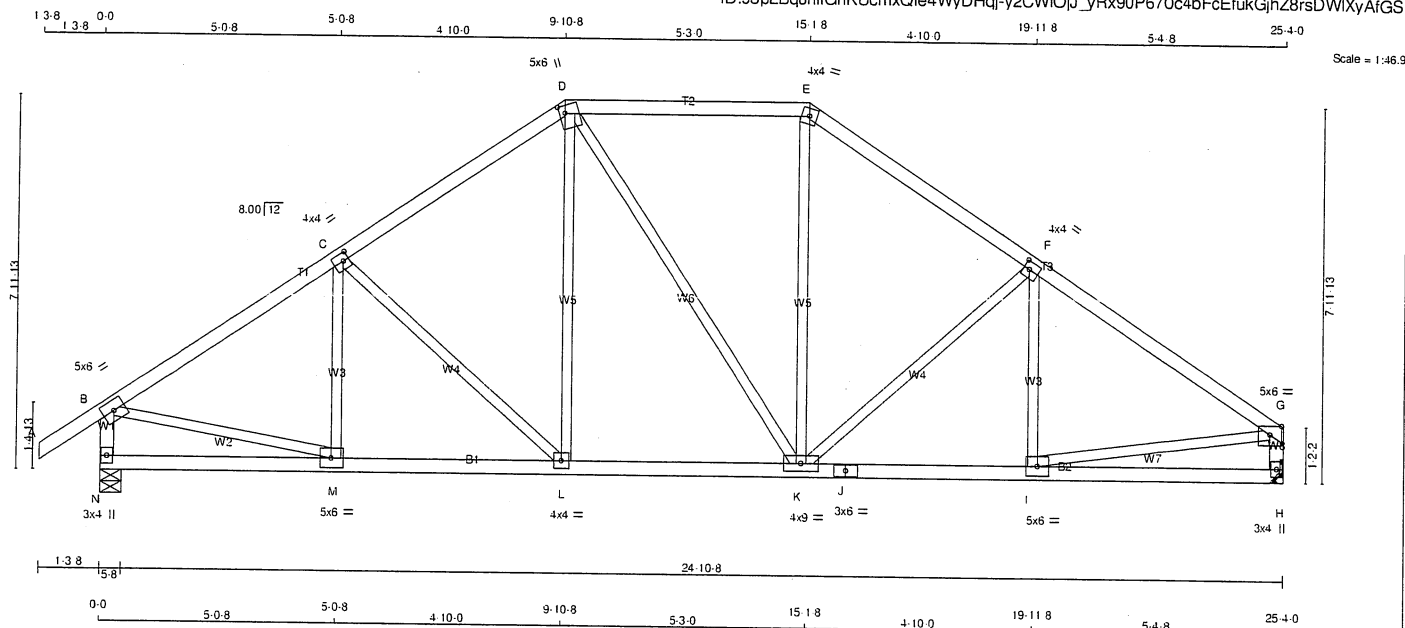
Structural component only  
DWG# T-2028258 *W*



|                           |                          |                      |                 |                                        |          |
|---------------------------|--------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b> | TRUSS NAME<br><b>T9X</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|----------------------------------------|----------|

Tamarack Roof Truss, Burlington

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Scale = 1:46.9

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-t | MT20   | 5.0 | 6.0 |      |      |
| C  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D  | TTWV+m | MT20   | 5.0 | 6.0 | 2.00 | 1.50 |
| E  | TTWV-m | MT20   | 4.0 | 4.0 |      |      |
| F  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| G  | TMVW-p | MT20   | 5.0 | 6.0 | Edge |      |
| H  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| I  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| J  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| K  | BMVW-t | MT20   | 4.0 | 9.0 |      |      |
| L  | BMVW-t | MT20   | 4.0 | 4.0 |      |      |
| M  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| N  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

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

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

| BEARINGS |                | FACTORED |      | MAXIMUM FACTORED |      | INPUT      |       | REQRD |     |
|----------|----------------|----------|------|------------------|------|------------|-------|-------|-----|
| JT       | GROSS REACTION | VERT     | HORZ | DOWN             | HORZ | UPLIFT     | IN-SX | BRG   | BRG |
| N        | 1813           | 0        | 1813 | 0                | 0    | 5-8        | 5-8   |       |     |
| H        | 1658           | 0        | 1658 | 0                | 0    | MECHANICAL |       |       |     |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 3'-8".

#### UNFACTORED REACTIONS

| JT | COMBINED | SNOW | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|----------|------|------|------------|------|------|------|
| N  | 1268     | 912  | 0    | 0          | 0    | 356  | 0    |
| H  | 1162     | 823  | 0    | 0          | 0    | 339  | 0    |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.34 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 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC) | MAX. FACTORED VERT. LOAD (LC) |
| FR-TO  |                           | FROM                      | TO                            | FR-TO |                           | FROM                          | TO                            |
| A-B    | 0 43                      | -112.4                    | -112.4 0.15 (1)               | 10.00 | M-C                       | -242 18                       | 0.08 (1)                      |
| B-C    | -1873 0                   | -112.4                    | -112.4 0.40 (1)               | 4.49  | C-L                       | -386 0                        | 0.31 (1)                      |
| C-D    | -1604 0                   | -112.4                    | -112.4 0.38 (1)               | 4.80  | L-D                       | 0 350                         | 0.08 (1)                      |
| D-E    | -1322 0                   | -112.4                    | -112.4 0.42 (1)               | 5.11  | D-K                       | 0 27                          | 0.01 (1)                      |
| E-F    | -1625 0                   | -112.4                    | -112.4 0.41 (1)               | 4.74  | K-E                       | 0 388                         | 0.09 (1)                      |
| F-G    | -1968 0                   | -112.4                    | -112.4 0.46 (1)               | 4.34  | K-F                       | -473 0                        | 0.38 (1)                      |
| N-B    | -1772 0                   | 0.0                       | 0.0 0.18 (1)                  | 6.27  | I-F                       | -165 43                       | 0.06 (1)                      |
| H-G    | -1615 0                   | 0.0                       | 0.0 0.16 (1)                  | 6.51  | B-M                       | 0 1625                        | 0.37 (1)                      |
| N-M    | 0 0                       | -18.5                     | -18.5 0.10 (4)                | 10.00 | I-G                       | 0 1689                        | 0.38 (1)                      |
| M-L    | 0 1589                    | -18.5                     | -18.5 0.30 (1)                | 10.00 |                           |                               |                               |
| L-K    | 0 1307                    | -18.5                     | -18.5 0.26 (1)                | 10.00 |                           |                               |                               |
| K-J    | 0 1668                    | -18.5                     | -18.5 0.32 (1)                | 10.00 |                           |                               |                               |
| J-I    | 0 1668                    | -18.5                     | -18.5 0.32 (1)                | 10.00 |                           |                               |                               |
| I-H    | 0 0                       | -18.5                     | -18.5 0.11 (4)                | 10.00 |                           |                               |                               |

TOTAL WEIGHT = 111 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |      |      |     |
|------------|----|------|------|-----|
| TOP CH.    | LL | =    | 32.5 | PSF |
|            | DL | =    | 6.0  | PSF |
| BOT CH.    | LL | =    | 0.0  | PSF |
|            | DL | =    | 7.4  | PSF |
| TOTAL LOAD | =  | 45.9 | PSF  |     |

SPACING = 24.0 IN/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55 % OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.84")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.06")  
ALLOWABLE DEFL.(TL)= L/360 (0.84")  
CALCULATED VERT. DEFL.(TL)= L/999 (0.11")

CSI: TC=0.46/1.00 (F-G:1), BC=0.32/1.00 (H-K:1), WB=0.38/1.00 (F-K:1), SS=0.24/1.00 (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 = 1.00

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

#### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
|       | (PSI)     | (PLI) | (PLI)   |
|       | MAX       | MIN   | MAX     |
| MT20  | 650       | 371   | 1747    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

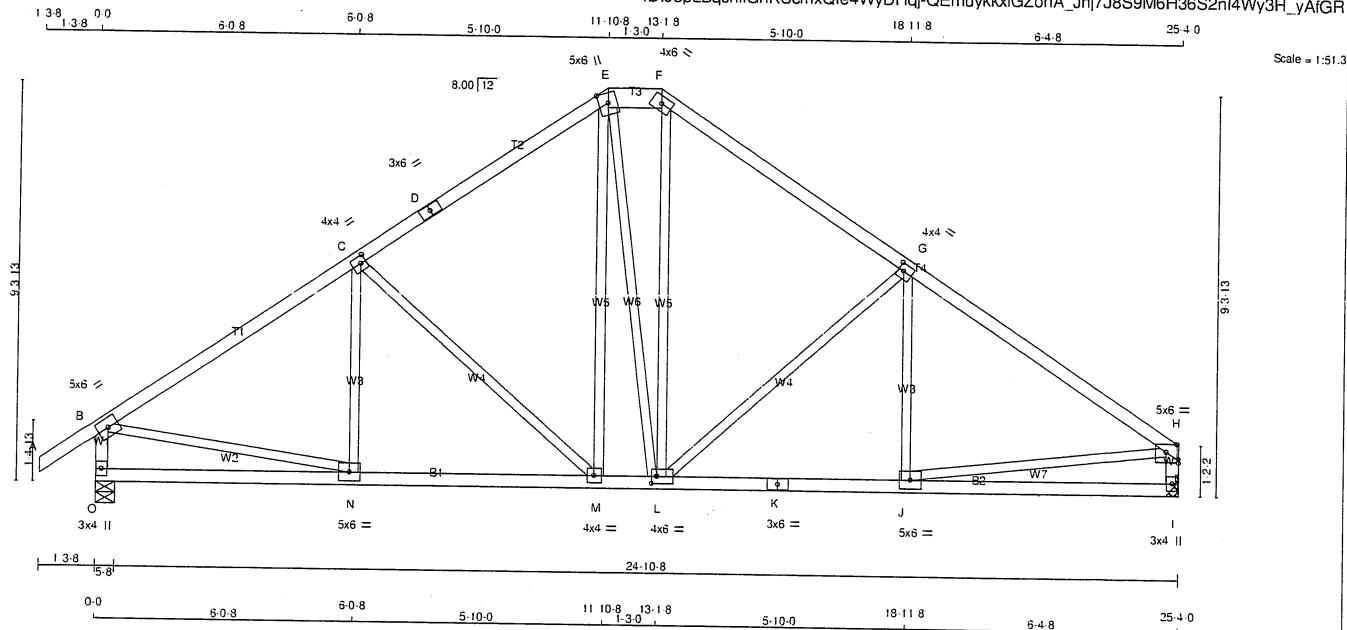
JSI GRIP = 0.90 (G) (INPUT = 0.90)  
JSI METAL = 0.48 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2028260

|                                 |                           |                      |                 |                                        |          |
|---------------------------------|---------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b>       | TRUSS NAME<br><b>T10X</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                           |                      |                 |                                        |          |

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| LUMBER                |      |        |        |     |
|-----------------------|------|--------|--------|-----|
| N. L. G. A. RULES     |      |        |        |     |
| CHORDS                | SIZE | LUMBER | DESCR. |     |
| A - D                 | 2x4  | DRY    | No.2   | SPF |
| D - E                 | 2x4  | DRY    | No.2   | SPF |
| E - F                 | 2x6  | DRY    | No.2   | SPF |
| F - H                 | 2x4  | DRY    | No.2   | SPF |
| O - B, H              | 2x4  | DRY    | No.2   | SPF |
| I - H                 | 2x4  | DRY    | No.2   | SPF |
| O - K                 | 2x4  | DRY    | No.2   | SPF |
| K - I                 | 2x4  | DRY    | No.2   | SPF |
| ALL WEBS EXCEPT       | 2x3  | DRY    | No.2   | SPF |
| DRY: SEASONED LUMBER. |      |        |        |     |

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| C  | TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D  | TS-t    | MT20   | 3.0 | 6.0 |      |      |
| E  | TTWW+m  | MT20   | 5.0 | 6.0 | 2.75 | 2.50 |
| F  | TTW-h   | MT20   | 4.0 | 6.0 |      |      |
| G  | TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| H  | TMVW-p  | MT20   | 5.0 | 6.0 | Edge |      |
| I  | BMV1-p  | MT20   | 3.0 | 4.0 |      |      |
| J  | BMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| K  | BS-t    | MT20   | 3.0 | 6.0 |      |      |
| L  | BMVWW-t | MT20   | 4.0 | 6.0 | 2.00 | 1.50 |
| M  | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| N  | BMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| O  | BMV1-p  | MT20   | 3.0 | 4.0 |      |      |

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

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

| BEARINGS |      | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG  |
|----------|------|-------------------------|---------------------------------|-----------|------------|
| JT       | VERT | HORZ                    | DOWN                            | HORZ      | UPLIFT     |
| O        | 1813 | 0                       | 1813                            | 0         | 5-8        |
| I        | 1658 | 0                       | 1658                            | 0         | MECHANICAL |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT I. MINIMUM BEARING LENGTH AT JOINT I = 3-8.

#### UNFACTORED REACTIONS

| JT | COMBINED | SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|----|----------|------|------|-----------|------|------|------|
| O  | 1268     | 912  | 0    | 0         | 0    | 356  | 0    |
| I  | 1162     | 823  | 0    | 0         | 0    | 339  | 0    |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           | WEBS  |                           |
|--------|---------------------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           | FR-TO |                           |
| A-B    | 0 43                      | N-C   | -161 62                   |
| B-C    | -1878 0                   | C-M   | -569 0                    |
| C-D    | -1453 0                   | M-E   | 0 423                     |
| D-E    | -1453 0                   | E-L   | 0 38                      |
| E-F    | -1174 0                   | L-F   | 0 471                     |
| F-G    | -1463 0                   | L-G   | -644 0                    |
| G-H    | -1951 0                   | J-G   | -100 82                   |
| O-B    | -1767 0                   | B-N   | 0 1624                    |
| I-H    | -1608 0                   | J-H   | 0 1675                    |
| O-N    | 0 0                       |       |                           |
| N-M    | 0 1599                    |       |                           |
| M-L    | 0 1169                    |       |                           |
| L-K    | 0 1660                    |       |                           |
| K-J    | 0 1660                    |       |                           |
| J-I    | 0 0                       |       |                           |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 32.5 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 45.9 | PSF |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55 % OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.84")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")  
ALLOWABLE DEFL.(TL)= L/360 (0.84")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.67:1.00 (G-H:1), BC=0.34:1.00 (J-L:1), WB=0.77:1.00 (G-L:1), SSI=0.28:1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

#### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-------|-----------|-------------|---------------|
| MT20  | 650       | 371         | 1747          |
|       | 788       | 1987        | 1873          |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

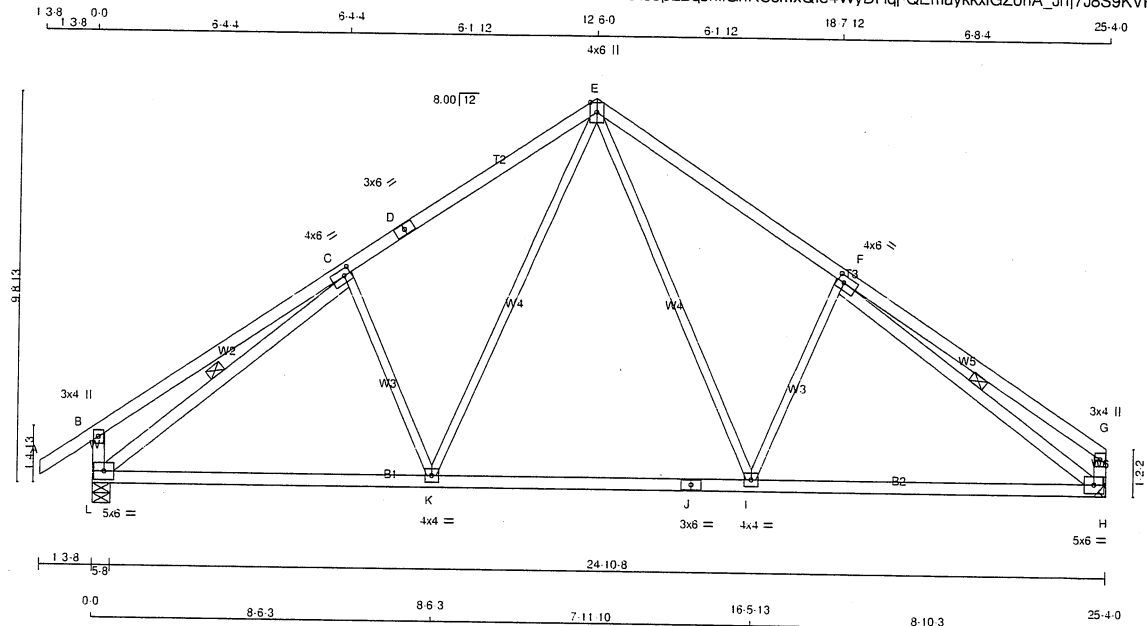
JSI GRIP= 0.90 (H) (INPUT = 0.90)  
JSI METAL= 0.53 (K) (INPUT = 1.00)



|          |            |          |     |                    |          |
|----------|------------|----------|-----|--------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.          | DRWG NO. |
| 415008   | T11X       | 2        | 1   | BAYVIEW WELLINGTON |          |

Tamarack Roof Truss, Burlington

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Scale = 1:54.8

TOTAL WEIGHT = 2 X 111 = 222 lb

#### LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT TYPE  | PLATES | W   | LEN | Y    | X    |
|----------|--------|-----|-----|------|------|
| B TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| C TMWW-t | MT20   | 4.0 | 6.0 | 2.00 | 2.00 |
| D TS-t   | MT20   | 3.0 | 6.0 |      |      |
| E TTWW+p | MT20   | 4.0 | 6.0 | Edge |      |
| F TMWW-t | MT20   | 4.0 | 6.0 | 2.00 | 2.00 |
| G TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| H BMW1-t | MT20   | 5.0 | 6.0 |      |      |
| I BMWW-t | MT20   | 4.0 | 4.0 |      |      |
| J BS-t   | MT20   | 3.0 | 6.0 |      |      |
| K BMWW-t | MT20   | 4.0 | 4.0 |      |      |
| L BMW1-t | MT20   | 5.0 | 6.0 |      |      |

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

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

##### BEARINGS

| FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|-------------------------|---------------------------------|-----------|----------|
| JT VERT                 | 1813                            | 0         | 5-8      |
| L VERT                  | 1658                            | 0         | 5-8      |
| H VERT                  | 1658                            | 0         | 5-8      |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 3-8.

##### UNFACTORED REACTIONS

| 1ST LCASE   | MAX. MIN. COMPONENT REACTIONS       |
|-------------|-------------------------------------|
| JT COMBINED | SNOW LIVE PERM. LIVE WIND DEAD SOIL |
| L           | 1268 912 0 0 0 0 356 0 0 0          |
| H           | 1182 823 0 0 0 0 339 0 0 0          |

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

##### BRACING

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

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

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX | MAX. UNBRACED LENGTH | WEBS  | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH |
|--------|---------------------------|---------------------------|---------|----------------------|-------|---------------------------|----------------------|
| FR-TO  |                           |                           |         |                      | FR-TO |                           |                      |
| A-B    | 0 43                      | -112.4                    | -112.4  | 0.15 (1)             | 10.00 | C-K                       | -505 0               |
| B-C    | 0 47                      | -112.4                    | -112.4  | 0.73 (1)             | 10.00 | K-E                       | 0 680                |
| C-D    | -1703 0                   | -112.4                    | -112.4  | 0.65 (1)             | 4.28  | E-I                       | 0 757                |
| D-E    | -1703 0                   | -112.4                    | -112.4  | 0.65 (1)             | 4.28  | I-F                       | -575 0               |
| E-F    | -1742 0                   | -112.4                    | -112.4  | 0.67 (1)             | 4.19  | L-C                       | -2067 0              |
| F-G    | 0 48                      | -112.4                    | -112.4  | 0.77 (1)             | 10.00 | F-H                       | -2098 0              |
| L-B    | -418 0                    | 0.0                       | 0.0     | 0.04 (1)             | 7.81  |                           |                      |
| H-G    | -282 0                    | 0.0                       | 0.0     | 0.03 (1)             | 7.81  |                           |                      |
| L-K    | 0 1582                    | -18.5                     | -18.5   | 0.41 (1)             | 10.00 |                           |                      |
| K-J    | 0 1113                    | -18.5                     | -18.5   | 0.39 (4)             | 10.00 |                           |                      |
| J-I    | 0 1113                    | -18.5                     | -18.5   | 0.39 (4)             | 10.00 |                           |                      |
| I-H    | 0 1640                    | -18.5                     | -18.5   | 0.43 (1)             | 10.00 |                           |                      |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 32.5 PSF |
| DL         | = 6.0 PSF  |
| BOT CH. LL | = 0.0 PSF  |
| DL         | = 7.4 PSF  |
| TOTAL LOAD | = 45.9 PSF |

##### SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.84")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")  
ALLOWABLE DEFL.(TL) = L/360 (0.84")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CSI: TC=0.77/1.00 (F-G:1), BC=0.43/1.00 (H-I:1), WB=0.71 1.00 (F-H:1), SSI=0.29/1.00 (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 = 1.00

AUTOSOLVE HEELS OFF

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

##### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-----------------|-------------|---------------|
| MAX MIN         | MAX MIN     | MAX MIN       |
| MT20            | 650 371     | 1747 788      |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

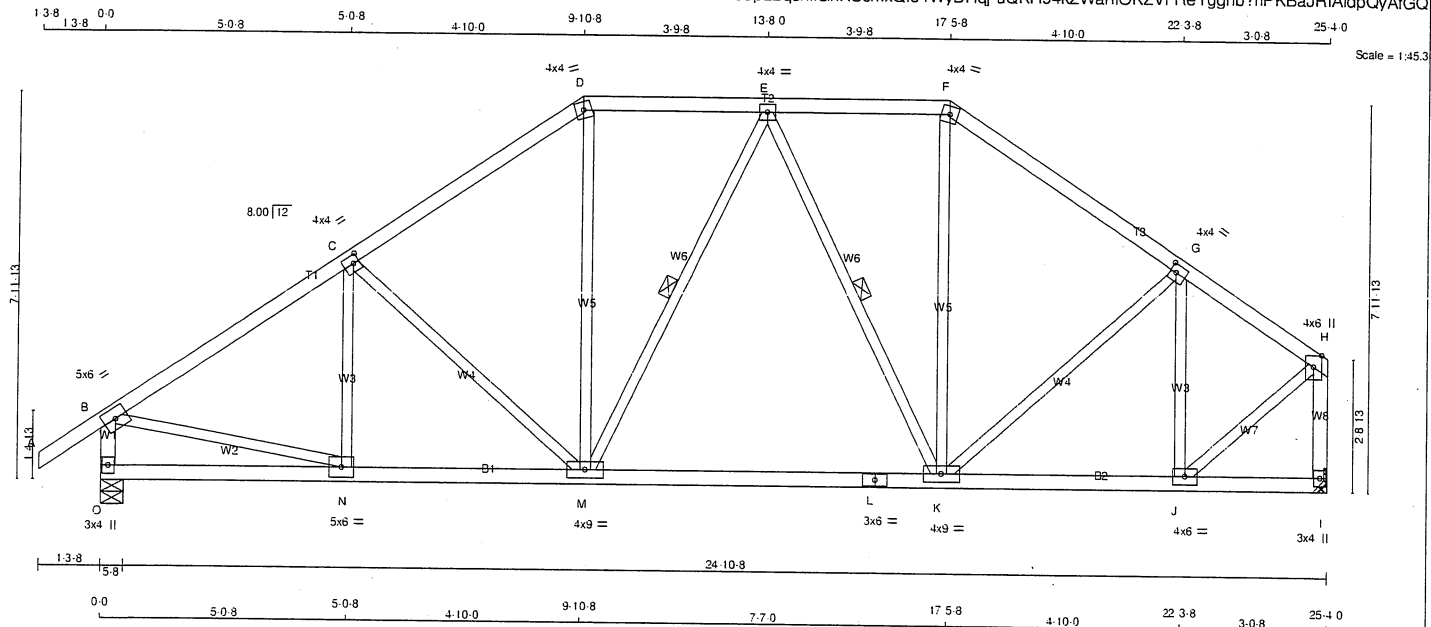
JSI GRIP = 0.89 (I) (INPUT = 0.90)  
JSI METAL = 0.50 (F) (INPUT = 1.00)



Structural component only  
DWG# T-2028262

|                                 |                          |                      |                 |                                        |          |
|---------------------------------|--------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b>       | TRUSS NAME<br><b>T12</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                        |          |

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-t | MT20   | 5.0 | 6.0 |      |      |
| C  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D  | TTW-m  | MT20   | 4.0 | 4.0 |      |      |
| E  | TMVW-t | MT20   | 4.0 | 4.0 |      |      |
| F  | TTW-m  | MT20   | 4.0 | 4.0 |      |      |
| G  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| H  | TMVW+p | MT20   | 4.0 | 6.0 | Edge |      |
| I  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| J  | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| K  | BMVW-t | MT20   | 4.0 | 9.0 |      |      |
| L  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| M  | BMVW-t | MT20   | 4.0 | 9.0 |      |      |
| N  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| O  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

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

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

**BEARINGS**

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| O  | 1813                    | 0                               | 1813      | 0        |
| I  | 1658                    | 0                               | 1658      | 0        |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT I. MINIMUM BEARING LENGTH AT JOINT I = 3-8.

**UNFACTORED REACTIONS**

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |   |   |   |   |   |
|----|----------|-------------------------------|---|---|---|---|---|
| O  | 1268     | 912                           | 0 | 0 | 0 | 0 | 0 |
| I  | 1162     | 823                           | 0 | 0 | 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 = 4.50 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-M, E-K.

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS  |                           |                           |          |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) |          |
| FR-TO  |                           |                           |                           | FR-TO |                           |                           |          |
| A-B    | 0                         | -112.4                    | 0.15 (1)                  | 10.00 | N-C                       | -252                      | 8        |
| B-C    | -1871                     | -112.4                    | 0.40 (1)                  | 4.50  | C-M                       | -377                      | 0        |
| C-D    | -1609                     | -112.4                    | 0.38 (1)                  | 4.80  | M-D                       | 0                         | 501      |
| D-E    | -1313                     | -112.4                    | 0.21 (1)                  | 5.41  | K-F                       | 0                         | 400      |
| E-F    | -1187                     | -112.4                    | 0.21 (1)                  | 5.63  | K-G                       | 0                         | 170      |
| F-G    | -1450                     | -112.4                    | 0.33 (1)                  | 5.07  | J-G                       | -772                      | 0        |
| G-H    | -1226                     | -112.4                    | 0.27 (1)                  | 5.49  | B-N                       | 0                         | 1823     |
| O-B    | -1771                     | 0                         | 0.18 (1)                  | 6.27  | J-H                       | 0                         | 1348     |
| I-H    | -1634                     | 0                         | 0.24 (1)                  | 6.48  | M-E                       | -140                      | 0        |
|        |                           |                           |                           | E-K   | -430                      | 0                         | 0.21 (1) |
| O-N    | 0                         | -18.5                     | 0.10 (4)                  | 10.00 |                           |                           |          |
| N-M    | 0                         | -18.5                     | 0.35 (1)                  | 10.00 |                           |                           |          |
| M-L    | 0                         | -18.5                     | 0.32 (1)                  | 10.00 |                           |                           |          |
| L-K    | 0                         | -18.5                     | 0.32 (1)                  | 10.00 |                           |                           |          |
| K-J    | 0                         | -18.5                     | 0.26 (1)                  | 10.00 |                           |                           |          |
| J-I    | 0                         | -18.5                     | 0.04 (4)                  | 10.00 |                           |                           |          |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

|            |            |
|------------|------------|
| TOP CH. LL | = 32.5 PSF |
| DL         | = 6.0 PSF  |
| BOT CH. LL | = 0.0 PSF  |
| DL         | = 7.4 PSF  |
| TOTAL LOAD | = 45.9 PSF |

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

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.84")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.05")  
ALLOWABLE DEFL.(TL)= L/360 (0.84")  
CALCULATED VERT. DEFL.(TL)= L/999 (0.13")

CSI: TC=0.40/1.00 (B-C:1), BC=0.35/1.00 (M-N:1), WB=0.37/1.00 (B-N:1), SSI=0.23/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) |         |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 650       | 371   | 1747    |
|       | 788       | 1987  | 1873    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

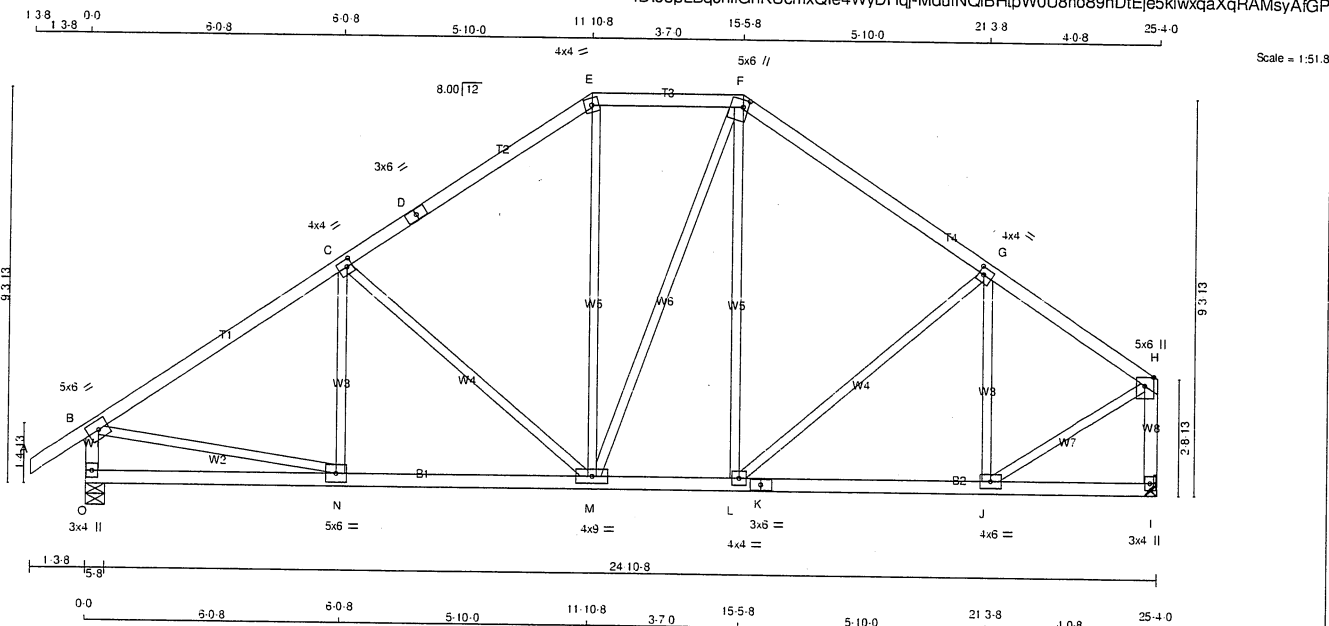
JSI GRIP= 0.85 (B) (INPUT = 0.90)  
JSI METAL= 0.61 (H) (INPUT = 1.00)



Structural component only  
DWG# T-2028263

|                                 |                          |                      |                 |                                        |          |
|---------------------------------|--------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b>       | TRUSS NAME<br><b>T13</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                            |          |

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

| PLATES (table is in inches) |         |        |     |     |           |
|-----------------------------|---------|--------|-----|-----|-----------|
| JT                          | TYPE    | PLATES | W   | LEN | Y X       |
| B                           | TMVW-t  | MT20   | 5.0 | 6.0 |           |
| C                           | TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 1.50 |
| D                           | TS-t    | MT20   | 3.0 | 6.0 |           |
| E                           | TTW-m   | MT20   | 4.0 | 4.0 |           |
| F                           | TTW+m   | MT20   | 5.0 | 6.0 | 2.00 1.50 |
| G                           | TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 1.50 |
| H                           | TMVW+p  | MT20   | 5.0 | 6.0 | Edge      |
| I                           | BMV1+p  | MT20   | 3.0 | 4.0 |           |
| J                           | BMVW-t  | MT20   | 4.0 | 6.0 |           |
| K                           | BS-t    | MT20   | 3.0 | 6.0 |           |
| L                           | BMVW-t  | MT20   | 4.0 | 4.0 |           |
| M                           | BMVWV-t | MT20   | 4.0 | 9.0 |           |
| N                           | BMVW-t  | MT20   | 5.0 | 6.0 |           |
| O                           | BMV1+p  | MT20   | 3.0 | 4.0 |           |

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

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

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG  | REQD BRG |
|----|-------------------------|------|---------------------------------|------|------------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ | IN-SX      | IN-SX    |
| O  | 1813                    | 0    | 1813                            | 0    | 5-8        | 5-8      |
| I  | 1658                    | 0    | 1658                            | 0    | MECHANICAL |          |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT I. MINIMUM BEARING LENGTH AT JOINT I = 3-8.

##### UNFACTORED REACTIONS

| JT | 1ST LOASE COMBINED |      | MAX./MIN. COMPONENT REACTIONS |            | WIND | DEAD | SOIL |
|----|--------------------|------|-------------------------------|------------|------|------|------|
|    | VERT               | SNOW | LIVE                          | PERM. LIVE |      |      |      |
| O  | 1268               | 912  | 0                             | 0          | 0    | 356  | 0    |
| I  | 1162               | 823  | 0                             | 0          | 0    | 339  | 0    |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.20 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 (LC) | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC) |      |
| FR-TO  |                           | FROM                      | TO                            | FR-TO    |                           |                               |      |
| A-B    | 0                         | -112.4                    | -112.4                        | 0.15 (1) | N-C                       | -161                          | 63   |
| B-C    | -1878                     | -112.4                    | -112.4                        | 0.60 (1) | C-M                       | -580                          | 0    |
| C-D    | -1441                     | -112.4                    | -112.4                        | 0.55 (1) | M-E                       | 0                             | 330  |
| D-E    | -1441                     | -112.4                    | -112.4                        | 0.55 (1) | M-F                       | 0                             | 139  |
| E-F    | -1164                     | -112.4                    | -112.4                        | 0.20 (1) | L-F                       | 0                             | 147  |
| F-G    | -1373                     | -112.4                    | -112.4                        | 0.48 (1) | L-G                       | -94                           | 0    |
| G-H    | -1371                     | -112.4                    | -112.4                        | 0.41 (1) | J-G                       | -603                          | 0    |
| O-B    | -1766                     | 0.0                       | 0.0                           | 0.18 (1) | B-N                       | 0                             | 1625 |
| I-H    | -1632                     | 0.0                       | 0.0                           | 0.23 (1) | J-H                       | 0                             | 1378 |
| O-N    | 0                         | -18.5                     | -18.5                         | 0.17 (4) |                           |                               |      |
| N-M    | 0                         | -18.5                     | -18.5                         | 0.34 (1) |                           |                               |      |
| M-L    | 0                         | -18.5                     | -18.5                         | 0.23 (1) |                           |                               |      |
| L-K    | 0                         | -18.5                     | -18.5                         | 0.25 (1) |                           |                               |      |
| K-J    | 0                         | -18.5                     | -18.5                         | 0.25 (1) |                           |                               |      |
| J-I    | 0                         | -18.5                     | -18.5                         | 0.12 (4) |                           |                               |      |

TOTAL WEIGHT = 2 X 119 = 238 lb [M/F]

##### DESIGN CRITERIA

###### SPECIFIED LOADS:

|             |           |     |
|-------------|-----------|-----|
| TOP CH.     | LL = 32.5 | PSF |
| DL = 6.0    | PSF       |     |
| BOT CH.     | LL = 0.0  | PSF |
| DL = 5587.4 | PSF       |     |
| TOTAL LOAD  | = 4597.4  | PSF |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.84")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.05")  
ALLOWABLE DEFL. (TL) = L/360 (0.84")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.10")

CSI: TC=0.60/1.00 (B-C:1), BC=0.34/1.00 (M-N:1), WB=0.73/1.00 (C-M:1), SS=0.27/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE | GRIP (DRY) | SHEAR | SECTION |
|-------|------------|-------|---------|
| (PSI) | (PLI)      | (PLI) |         |
| MAX   | MIN        | MAX   | MIN     |
| MT20  | 650        | 371   | 1747    |
|       |            | 788   | 1987    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.85 (B) (INPUT = 0.90)

JSI METAL = 0.55 (H) (INPUT = 1.00)



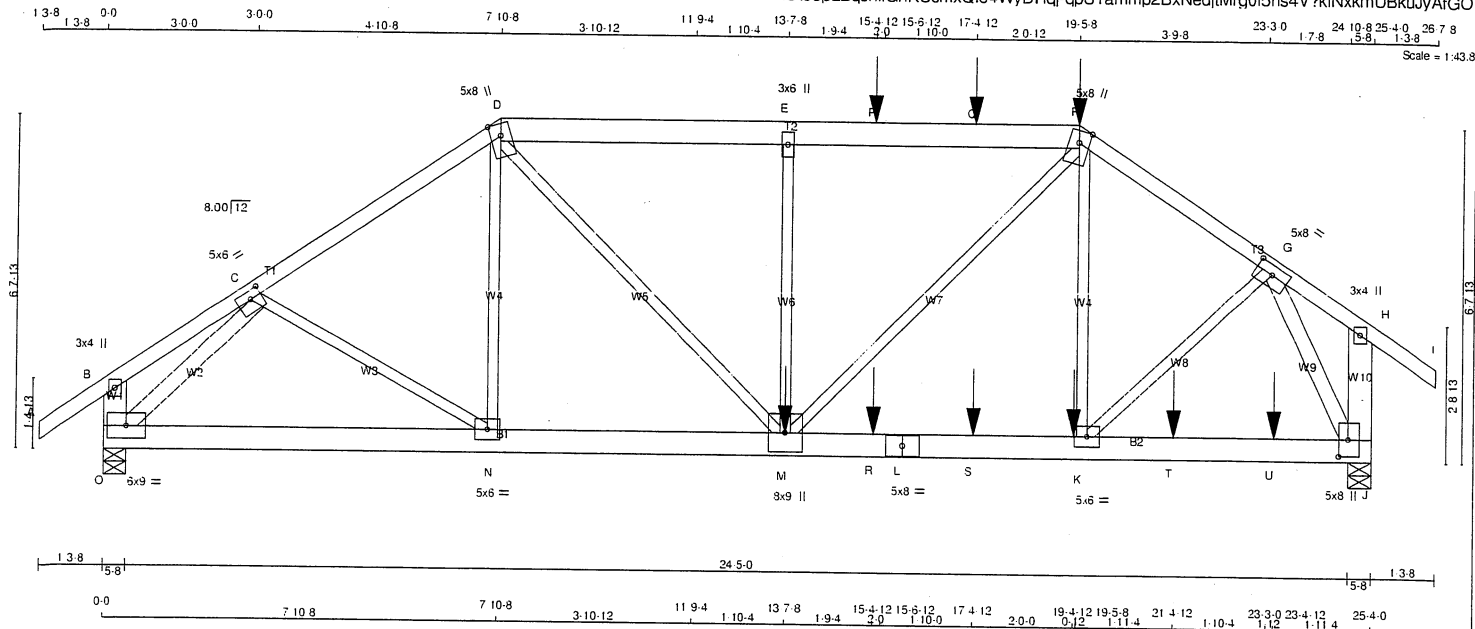
Structural component only  
DWG# T-2028264

|          |            |          |     |                    |             |          |
|----------|------------|----------|-----|--------------------|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.          | TRUSS DESC. | DRWG NO. |
| 415008   | T14        | 1        | 1   | BAYVIEW WELLINGTON |             |          |

Tamarack Roof Truss, Burlington

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE     | PLATES | W   | LEN | Y    | X    |
|----|----------|--------|-----|-----|------|------|
| B  | TMV+p    | MT20   | 3.0 | 4.0 |      |      |
| C  | TMVW-t   | MT20   | 5.0 | 6.0 | 2.00 | 2.75 |
| D  | TTVW+m   | MT20   | 5.0 | 8.0 | Edge |      |
| E  | TMVW-w   | MT20   | 3.0 | 6.0 |      |      |
| F  | TTVW+m   | MT20   | 5.0 | 8.0 | Edge |      |
| G  | TMVW-t   | MT20   | 5.0 | 8.0 | 2.25 | 4.00 |
| H  | TMV+p    | MT20   | 3.0 | 4.0 |      |      |
| J  | BMVW1+p  | MT20   | 5.0 | 8.0 | 4.00 | 2.25 |
| K  | BMVW-t   | MT20   | 5.0 | 6.0 |      |      |
| L  | BS-t     | MT20   | 5.0 | 8.0 |      |      |
| M  | BMVWVW+t | MT20   | 8.0 | 9.0 |      |      |
| N  | BMVW-t   | MT20   | 5.0 | 6.0 |      |      |
| O  | BMVW1-t  | MT20   | 6.0 | 9.0 |      |      |

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

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ      |
| O  | 3090                    | 0                               | 3090      | 0         |
| J  | 3813                    | 0                               | 3813      | 0         |

##### UNFACTORED REACTIONS

| JT | 1ST CASE COMBINED | MAX. MIN. SNOW | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|-------------------|----------------|------|------------|------|------|------|
| O  | 2159              | 1564           | 0    | 0          | 0    | 595  | 0    |
| J  | 2667              | 1915           | 0    | 0          | 0    | 752  | 0    |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.01 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC) | MAX. FACTORED VERT. LOAD (LC) | MEMB. | WEBS MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC) |
|-------|----------------------------------|---------------------------|-------------------------------|-------------------------------|-------|--------------------------------|-------------------------------|
| FR-TO |                                  | FROM                      | TO                            | UNBRAC LENGTH                 | FR-TO |                                |                               |
| A-B   | 0 43                             | -112.4                    | -112.4                        | 0.17 (1)                      | 10.00 | C-N                            | 0 362                         |
| B-C   | 0 44                             | -112.4                    | -112.4                        | 0.35 (1)                      | 10.00 | N-D                            | -61 82                        |
| C-D   | -3709 0                          | -112.4                    | -112.4                        | 0.75 (1)                      | 3.01  | K-F                            | -409 20                       |
| D-E   | -4568 0                          | -112.4                    | -112.4                        | 0.39 (1)                      | 3.70  | O-C                            | -3924 0                       |
| E-P   | -4568 0                          | -112.4                    | -112.4                        | 0.40 (1)                      | 3.69  | M-E                            | -825 0                        |
| P-Q   | -4568 0                          | -112.4                    | -112.4                        | 0.40 (1)                      | 3.69  | M-F                            | 0 2150                        |
| Q-F   | -4568 0                          | -112.4                    | -112.4                        | 0.40 (1)                      | 3.69  | D-M                            | 0 2202                        |
| F-G   | -3721 0                          | -112.4                    | -112.4                        | 0.48 (1)                      | 3.22  | K-G                            | 0 1599                        |
| G-H   | 0 38                             | -112.4                    | -112.4                        | 0.21 (1)                      | 10.00 | G-J                            | -4069 0                       |
| H-I   | 0 43                             | -112.4                    | -112.4                        | 0.17 (1)                      | 10.00 |                                |                               |
| O-B   | -238 0                           | 0.0                       | 0.0                           | 0.02 (1)                      | 7.81  |                                |                               |
| J-H   | -197 0                           | 0.0                       | 0.0                           | 0.02 (1)                      | 7.81  |                                |                               |
| O-N   | 0 2762                           | -18.5                     | -18.5                         | 0.44 (1)                      | 10.00 |                                |                               |
| N-M   | 0 3073                           | -18.5                     | -18.5                         | 0.48 (1)                      | 10.00 |                                |                               |
| M-R   | 0 3097                           | -18.5                     | -18.5                         | 0.67 (1)                      | 10.00 |                                |                               |
| R-L   | 0 3097                           | -18.5                     | -18.5                         | 0.67 (1)                      | 10.00 |                                |                               |
| L-S   | 0 3097                           | -18.5                     | -18.5                         | 0.67 (1)                      | 10.00 |                                |                               |
| S-K   | 0 3097                           | -18.5                     | -18.5                         | 0.67 (1)                      | 10.00 |                                |                               |
| K-T   | 0 1937                           | -18.5                     | -18.5                         | 0.47 (1)                      | 10.00 |                                |                               |
| T-U   | 0 1937                           | -18.5                     | -18.5                         | 0.47 (1)                      | 10.00 |                                |                               |
| U-J   | 0 1937                           | -18.5                     | -18.5                         | 0.47 (1)                      | 10.00 |                                |                               |

##### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1   | MAX.  | FACE | DIR. | TYPE | HEEL  | CONN. |
|----|---------|-------|-------|------|------|------|-------|-------|
| K  | 19-5-8  | -298  | -298  | ---  | BACK | VERT | TOTAL | C1    |
| F  | 19-4-12 | -170  | -170  | ---  | BACK | VERT | TOTAL | C1    |
| M  | 13-7-8  | -1408 | -1408 | ---  | BACK | VERT | TOTAL | C1    |
| P  | 15-4-12 | -9    | -9    | ---  | BACK | VERT | TOTAL | C1    |
| Q  | 17-4-12 | -9    | -9    | ---  | BACK | VERT | TOTAL | C1    |
| R  | 15-4-12 | -170  | -170  | ---  | BACK | VERT | TOTAL | C1    |
| S  | 17-4-12 | -170  | -170  | ---  | BACK | VERT | TOTAL | C1    |
| T  | 21-4-12 | -29   | -29   | ---  | BACK | VERT | TOTAL | C1    |
| U  | 23-4-12 | -29   | -29   | ---  | BACK | VERT | TOTAL | C1    |

##### CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 32.5 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 45.9 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.84")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")  
ALLOWABLE DEFL.(TL) = L/360 (0.84")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.23")

CSI: TC=0.75/1.00 (C-D:1), BC=0.67/1.00 (K-M:1), WB=0.81/1.00 (G-J:1), SSI=0.27/1.00 (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 = 1.00

AUTOSOLVE HEELS OFF

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

##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-------|-----------|-------------|---------------|
| MT20  | 650       | 371         | 1747          |
|       | 788       | 1987        | 1873          |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.89 (C) (INPUT = 0.90)

JSI METAL= 0.91 (C) (INPUT = 1.00)

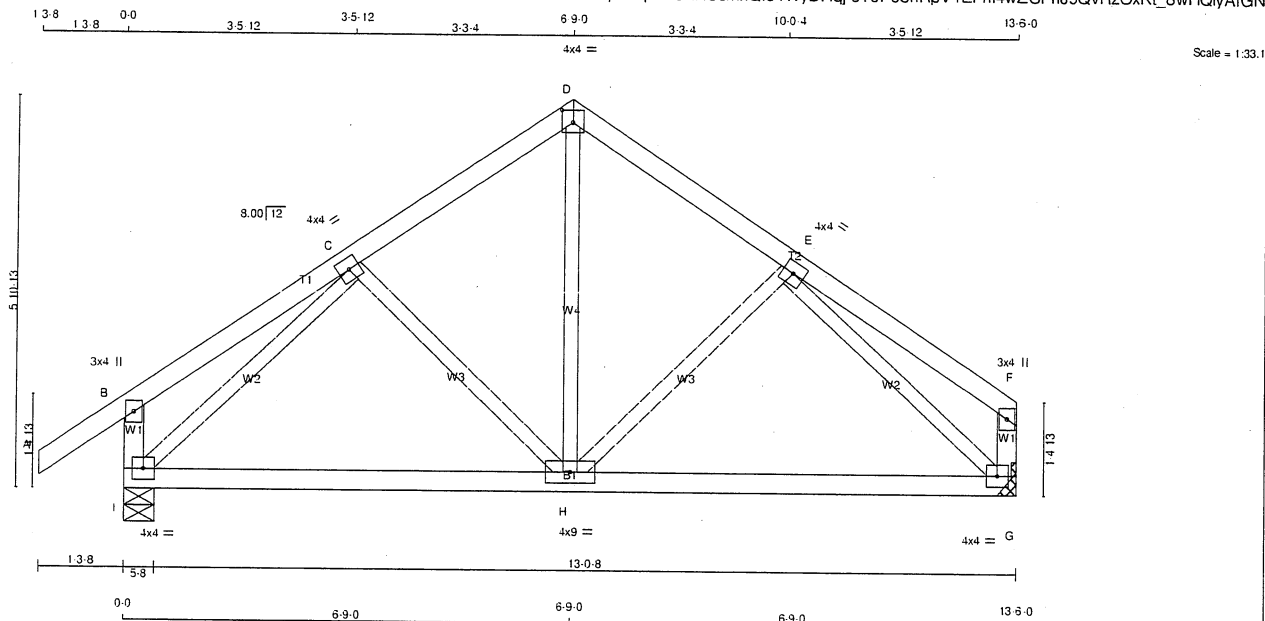


Structural component only  
DVWG# T-2028265

|                           |                          |                      |                 |                                        |             |          |
|---------------------------|--------------------------|----------------------|-----------------|----------------------------------------|-------------|----------|
| JOB NAME<br><b>415008</b> | TRUSS NAME<br><b>T15</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|----------------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MTek Industries, Inc. Wed Dec 9 16:36:38 2020 Page 1  
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TOTAL WEIGHT = 57 lb [M/F]

#### LUMBER

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

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWW-t  | MT20   | 4.0 | 4.0 |      |      |
| D  | TTW-p   | MT20   | 4.0 | 4.0 | 2.25 | 2.00 |
| E  | TMWW-t  | MT20   | 4.0 | 4.0 |      |      |
| F  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| G  | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| H  | BMVWW-t | MT20   | 4.0 | 9.0 |      |      |
| I  | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| I  | 1038                    | 0                               | 1038      | 0        |
| G  | 884                     | 0                               | 884       | 0        |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT G. MINIMUM BEARING LENGTH AT JOINT G = 3-8.

##### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED | MAX. MIN. COMPONENT REACTIONS | SNOW | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|--------------------|-------------------------------|------|------|------------|------|------|------|
| I  | 725                | 528                           | 0    | 0    | 0          | 0    | 197  | 0    |
| G  | 619                | 438                           | 0    | 0    | 0          | 0    | 181  | 0    |

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

##### 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)

| MEMB. | CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC) | UNBRACED LENGTH | WEBS  | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC) |
|-------|--------|---------------------------|---------------------------|--------------------------------|-------------------------------|-----------------|-------|----------|---------------------------|-------------------------------|
| FR-TO |        |                           | FROM                      | TO                             |                               |                 | FR-TO |          |                           |                               |
| A-B   | 0.43   | -112.4                    | -112.4                    | 0.15 (1)                       | 10.00                         | H-D             | 0.440 | 0.10 (1) |                           |                               |
| B-C   | 0.24   | -112.4                    | -112.4                    | 0.20 (1)                       | 10.00                         | H-E             | -205  | 0.08 (1) |                           |                               |
| C-D   | -687   | 0                         | -112.4                    | -112.4                         | 0.16 (1)                      | 6.25            | C-H   | -205     | 0.08 (1)                  |                               |
| D-E   | -687   | 0                         | -112.4                    | -112.4                         | 0.16 (1)                      | 6.25            | I-C   | -981     | 0.35 (1)                  |                               |
| E-F   | 0.24   | -112.4                    | -112.4                    | 0.20 (1)                       | 10.00                         | E-G             | -981  | 0.35 (1) |                           |                               |
| I-B   | -301   | 0                         | 0.0                       | 0.0                            | 0.03 (1)                      | 7.81            |       |          |                           |                               |
| G-F   | -146   | 0                         | 0.0                       | 0.0                            | 0.02 (1)                      | 7.81            |       |          |                           |                               |
| I-H   | 0.698  | -18.5                     | -18.5                     | 0.29 (4)                       | 10.00                         |                 |       |          |                           |                               |
| H-G   | 0.698  | -18.5                     | -18.5                     | 0.29 (4)                       | 10.00                         |                 |       |          |                           |                               |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |        |     |
|------------|----|--------|-----|
| TOP CH.    | LL | = 32.5 | PSF |
|            | DL | = 6.0  | PSF |
| BOT CH.    | LL | = 0.0  | PSF |
|            | DL | = 7.4  | PSF |
| TOTAL LOAD |    | = 45.9 | PSF |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.45")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.02")  
ALLOWABLE DEFL.(TL)= L/360 (0.45")  
CALCULATED VERT. DEFL.(TL)= L/999 (0.06")

CSI: TC=0.20/1.00 (B-C:1), BC=0.29/1.00 (H-I:4),  
WB=0.35/1.00 (C-I:1), SSI=0.15/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE | GRIP (DRY) | SHEAR | SECTION |
|-------|------------|-------|---------|
|       | (PSI)      | (PLI) | (PLI)   |
|       | MAX        | MIN   | MAX     |
| MT20  | 650        | 371   | 1747    |
|       | 788        | 1987  | 1873    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.81 (C) (INPUT= 0.90)  
JSI METAL= 0.31 (C) (INPUT= 1.00)

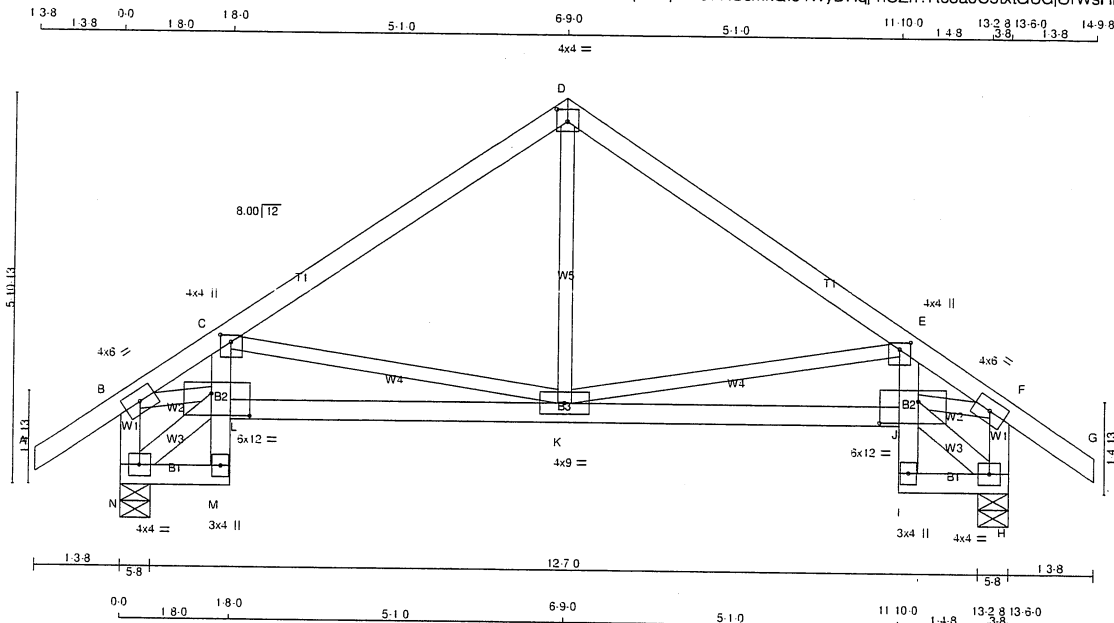


Structural component only  
DWG# T-2028266

|          |            |          |     |                    |             |          |
|----------|------------|----------|-----|--------------------|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.          | TRUSS DESC. | DRWG NO. |
| 415008   | T15S       | 4        | 1   | BAYVIEW WELLINGTON |             |          |

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Dec 9 16:36:39 2020 Page 1  
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Scale = 1:33.3

TOTAL WEIGHT = 4 X 61 = 245 lb [M/F]

#### LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - D 2x4 DRY

D - G 2x4 DRY

N - B 2x4 DRY

H - F 2x4 DRY

N - M 2x4 DRY

M - C 2x4 DRY

L - J 2x4 DRY

I - E 2x4 DRY

I - H 2x4 DRY

ALL WEBS 2x3 DRY

EXCEPT

N - L 2x4 DRY

J - H 2x4 DRY

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN  | Y    | X    |
|----|--------|--------|-----|------|------|------|
| B  | TMVW-t | MT20   | 4.0 | 6.0  |      |      |
| C  | TMVW+p | MT20   | 4.0 | 4.0  | 1.25 | 2.00 |
| D  | TTW-p  | MT20   | 4.0 | 4.0  | 2.25 | 2.00 |
| E  | TMVW+p | MT20   | 4.0 | 4.0  | 1.25 | 2.00 |
| F  | TMVW-t | MT20   | 4.0 | 6.0  |      |      |
| H  | BMVW-t | MT20   | 4.0 | 4.0  |      |      |
| I  | BMV+p  | MT20   | 3.0 | 4.0  |      |      |
| J  | BMVW-t | MT20   | 6.0 | 12.0 | 4.00 | 7.00 |
| K  | BMVW-t | MT20   | 4.0 | 9.0  |      |      |
| L  | BMVW-t | MT20   | 6.0 | 12.0 | 4.00 | 7.00 |
| M  | BMV+p  | MT20   | 3.0 | 4.0  |      |      |
| N  | BMVW-t | MT20   | 4.0 | 4.0  |      |      |

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

##### BUILDING DESIGNER

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| N  | 1038                    | 0                               | 1038      | 0        |
| H  | 1038                    | 0                               | 1038      | 0        |

##### UNFACTORED REACTIONS

|    | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |      |            |      |      |      |   |
|----|----------|-------------------------------|------|------------|------|------|------|---|
| JT | COMBINED | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD | SOIL |   |
| N  | 725      | 528                           | 0    | 0          | 0    | 0    | 197  | 0 |
| H  | 725      | 528                           | 0    | 0          | 0    | 0    | 197  | 0 |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.97 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               | WEBS  |                           |               |  |
|--------|---------------------------|---------------------------|---------------|-------|---------------------------|---------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |  |
| FR-TO  |                           | FROM TO                   |               | FR-TO |                           |               |  |
| A-B    | 0 43                      | -112.4 -112.4             | 0.15 (1)      | K-D   | 0 358                     | 0.08 (1)      |  |
| B-C    | -1568 0                   | -112.4 -112.4             | 0.28 (1)      | K-E   | -800 0                    | 0.39 (1)      |  |
| C-D    | -796 0                    | -112.4 -112.4             | 0.39 (1)      | C-K   | -800 0                    | 0.39 (1)      |  |
| D-E    | -796 0                    | -112.4 -112.4             | 0.39 (1)      | N-L   | -80 0                     | 0.01 (1)      |  |
| E-F    | -1568 0                   | -112.4 -112.4             | 0.28 (1)      | B-L   | 0 1347                    | 0.30 (1)      |  |
| F-G    | 0 43                      | -112.4 -112.4             | 0.15 (1)      | J-H   | -80 0                     | 0.01 (1)      |  |
| N-B    | -975 0                    | 0.0 0.0                   | 0.10 (1)      | J-F   | 0 1347                    | 0.30 (1)      |  |
| H-F    | -975 0                    | 0.0 0.0                   | 0.10 (1)      |       |                           |               |  |
| N-M    | 0 64                      | -18.5 -18.5               | 0.02 (1)      |       |                           |               |  |
| M-L    | 0 16                      | 0.0 0.0                   | 0.10 (1)      |       |                           |               |  |
| L-C    | 0 121                     | 0.0 0.0                   | 0.12 (1)      |       |                           |               |  |
| L-K    | 0 1425                    | -18.5 -18.5               | 0.31 (1)      |       |                           |               |  |
| K-J    | 0 1425                    | -18.5 -18.5               | 0.31 (1)      |       |                           |               |  |
| I-J    | 0 16                      | 0.0 0.0                   | 0.10 (1)      |       |                           |               |  |
| J-E    | 0 121                     | 0.0 0.0                   | 0.12 (1)      |       |                           |               |  |
| I-H    | 0 64                      | -18.5 -18.5               | 0.02 (1)      |       |                           |               |  |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 32.5 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 45.9 PSF

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.45")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.03")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.45")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.06")

CSI: TC=0.39/1.00 (C-D:1), BC=0.31/1.00 (K-L:1), WB=0.39/1.00 (C-K:1), SSI=0.22/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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     |
| MT20  | 650       | 371   | 1747    |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.68 (B) (INPUT = 0.90)  
JSI METAL= 0.39 (F) (INPUT = 1.00)



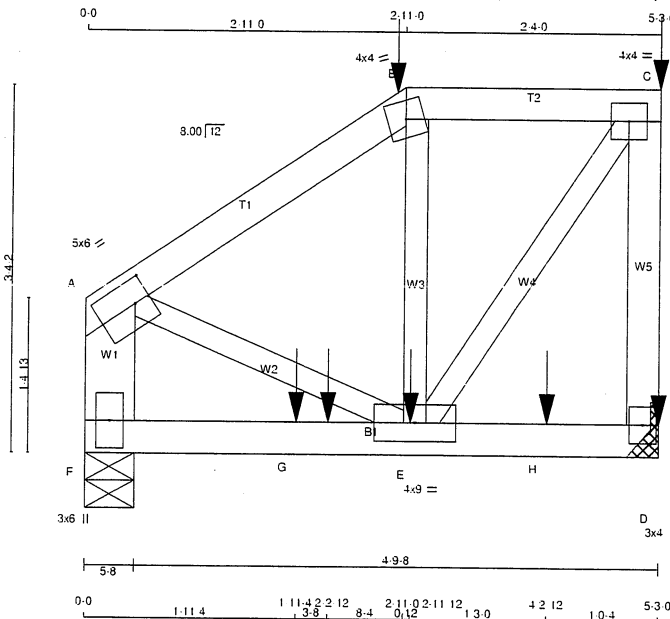
Structural component only  
DWG# T-2028267



|                           |                          |                      |                 |                                        |          |
|---------------------------|--------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b> | TRUSS NAME<br><b>T17</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|----------------------------------------|----------|

Tamarack Roof Truss, Burlington

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Scale = 1:20.0

TOTAL WEIGHT = 2 X 25 = 50 lb

#### LUMBER

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

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD (PLF) |
|------------------------------------------|----------------------|------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |            |
| A - B 1 12                               |                      | SIDE(61.0) |
| B - C 1 12                               |                      | SIDE(61.0) |
| C - D 1 12                               |                      | TOP        |
| F - A 2 12                               |                      | TOP        |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |            |
| F - D 1 12                               |                      | SIDE(61.0) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |            |
| 2x3 1 6                                  |                      |            |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

#### PLATES (table is in inches)

| JT TYPE  | PLATES | W   | LEN | Y    | X    |
|----------|--------|-----|-----|------|------|
| A TMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 1.75 |

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| D  | 1093                    | 0                               | 1093      | 0        |
| F  | 807                     | 0                               | 807       | 0        |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 3-8.

##### UNFACTORED REACTIONS

|    | 1ST LCASE | MAX. MIN. COMPONENT REACTIONS |      |            |      |      |      |   |
|----|-----------|-------------------------------|------|------------|------|------|------|---|
| JT | COMBINED  | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD | SOIL |   |
| D  | 764       | 554                           | 0    | 0          | 0    | 209  | 0    | 0 |
| F  | 564       | 408                           | 0    | 0          | 0    | 156  | 0    | 0 |

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

##### 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 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD LC1 (LC) |          |
| FR-TO  |                           | FROM TO                   |                                   | FR-TO |                           |                                   |          |
| A-B    | -611                      | 0                         | -112.4 -112.4 0.09 (1)            | E-B   | -123                      | 16                                | 0.01 (1) |
| B-C    | -503                      | 0                         | -112.4 -112.4 0.06 (1)            | E-C   | 0                         | 853                               | 0.11 (1) |
| D-C    | -909                      | 0                         | 0.0 0.0 0.09 (1)                  | A-E   | 0                         | 538                               | 0.07 (1) |
| F-A    | -686                      | 0                         | 0.0 0.0 0.02 (1)                  |       |                           |                                   |          |
| F-G    | 0                         | 0                         | -18.5 -18.5 0.17 (1)              |       |                           |                                   |          |
| G-E    | 0                         | 0                         | -18.5 -18.5 0.17 (1)              |       |                           |                                   |          |
| E-H    | 0                         | 0                         | -18.5 -18.5 0.17 (1)              |       |                           |                                   |          |
| H-D    | 0                         | 0                         | -18.5 -18.5 0.17 (1)              |       |                           |                                   |          |

##### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX. | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| B  | 2-11-0  | -114 | -114 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| C  | 5-3-0   | -63  | -63  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| D  | 5-3-0   | -12  | -12  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| E  | 2-11-12 | -7   | -7   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| G  | 1-11-4  | -7   | -7   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| G  | 2-2-12  | -322 | -322 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| H  | 4-2-12  | -322 | -322 | ---  | BACK  | VERT | TOTAL | ---  | C1    |

##### CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |      |      |     |
|------------|----|------|------|-----|
| TOP CH.    | LL | =    | 32.5 | PSF |
|            | DL | =    | 6.0  | PSF |
| BOT CH.    | LL | =    | 0.0  | PSF |
|            | DL | =    | 7.4  | PSF |
| TOTAL LOAD | =  | 45.9 | PSF  |     |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.09/1.00 (A-B:1), BC=0.17/1.00 (E-F:1),  
WB=0.11/1.00 (C-E:1), SSI=0.17/1.00 (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 = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR                      | SECTION |
|-----------------|----------------------------|---------|
| (PSI)           | (PLI)                      | (PLI)   |
| MAX MIN         | MAX MIN                    | MAX MIN |
| MT20            | 650 371 1747 788 1987 1873 |         |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.44 (C) (INPUT = 0.90)  
JSI METAL= 0.12 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2028269 1/2

CONTINUED ON PAGE 2

|                                 |            |             |     |                    |          |
|---------------------------------|------------|-------------|-----|--------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.          | DRWG NO. |
| 415008                          | T17        | 1           | 2   | BAYVIEW WELLINGTON |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                    |          |

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**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y | X |
|----|---------|--------|-----|-----|---|---|
| B  | TTW-m   | MT20   | 4.0 | 4.0 |   |   |
| C  | TMVW-t  | MT20   | 4.0 | 4.0 |   |   |
| D  | BMV1+p  | MT20   | 3.0 | 4.0 |   |   |
| E  | BMVWW-t | MT20   | 4.0 | 9.0 |   |   |
| F  | BMV1+p  | MT20   | 3.0 | 6.0 |   |   |

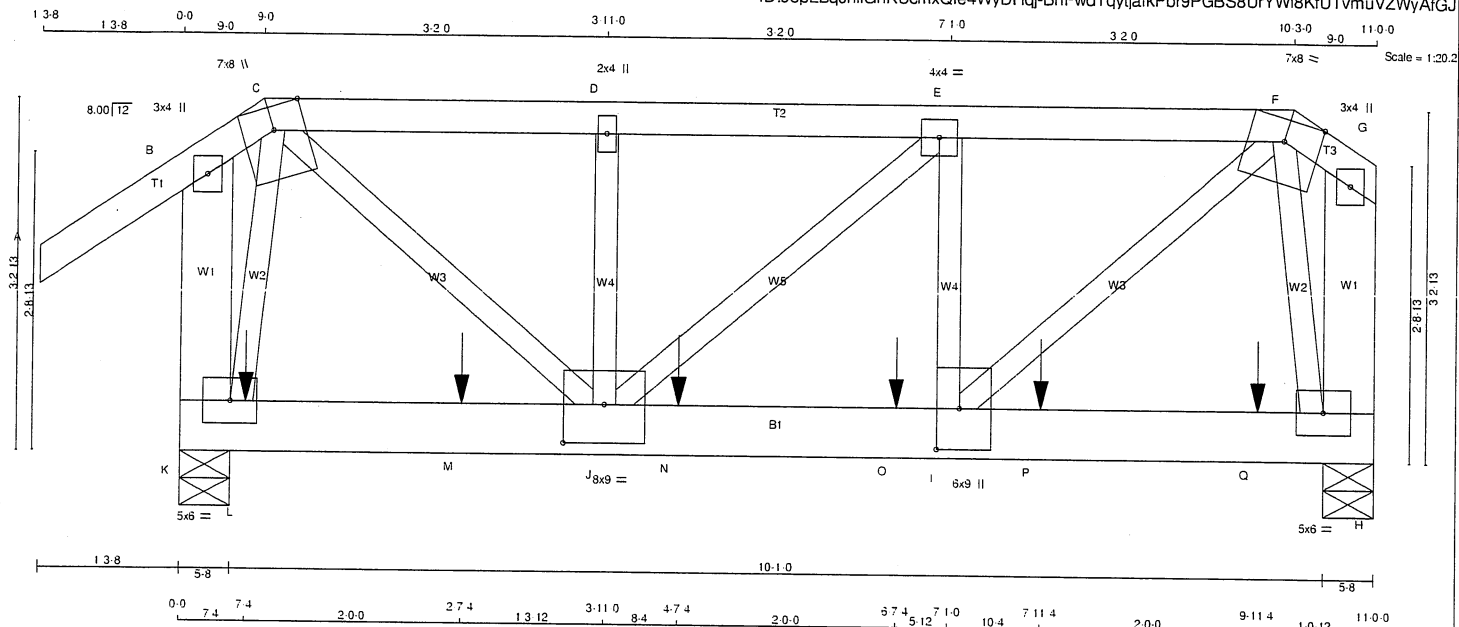


Structural component only  
DWG# T-2028269 *m*

|          |            |          |     |             |                    |          |
|----------|------------|----------|-----|-------------|--------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | BAYVIEW WELLINGTON | DRWG NO. |
| 415008   | T18        | 1        | 2   | 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    |
| F - G             | 2x4 | DRY  | No.2 |        |  | SPF    |
| K - B             | 2x6 | DRY  | No.2 |        |  | SPF    |
| H - G             | 2x6 | DRY  | No.2 |        |  | SPF    |
| K - H             | 2x6 | DRY  | No.2 |        |  | SPF    |

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF)   |
|------------------------------------------|----------------------|-------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |             |
| A - C                                    | 12                   | TOP         |
| C - F                                    | 12                   | TOP         |
| F - G                                    | 12                   | TOP         |
| K - B                                    | 12                   | SIDE(105.3) |
| H - G                                    | 12                   | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| K - H                                    | 12                   | SIDE(183.1) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| K - C                                    | 6                    | SIDE(140.4) |
| 2x3                                      | 6                    |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REORD BRG |
|----------|-------------------------|---------------------------------|-----------|-----------|
| JT       | VERT                    | HORZ                            | DOWN      | UPLIFT    |
| K        | 5913                    | 0                               | 5913      | 0         |
| H        | 5525                    | 0                               | 5525      | 0         |

#### UNFACTORED REACTIONS

| 1ST LCASE | MAX. MIN. COMPONENT REACTIONS                |
|-----------|----------------------------------------------|
| JT        | COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL |
| K         | 4136 2973 0 0 0 0 0 0 1163 0 0 0             |
| H         | 3867 2767 0 0 0 0 0 0 1100 0 0 0             |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.02 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 (PLF) | MAX. FACTORED CSI (LC) | MAX. FACTORED UNBRAC LENGTH | WEBS  | MAX. FACTORED MEMB. FORCE (LBS) | MAX. FACTORED CSI (LC) |
|--------|---------------------------------|---------------------------|------------------------|-----------------------------|-------|---------------------------------|------------------------|
| FR-TO  |                                 |                           |                        |                             | FR-TO |                                 |                        |
| A-B    | 0 43                            | -112.4 -112.4             | 0.08 (1)               | 10.00                       | J-D   | -365 0                          | 0.04 (1)               |
| B-C    | -74 0                           | -112.4 -112.4             | 0.08 (1)               | 6.25                        | K-C   | -3989 0                         | 0.39 (1)               |
| C-D    | -5184 0                         | -112.4 -112.4             | 0.18 (1)               | 4.11                        | C-J   | 0 5581                          | 0.69 (1)               |
| D-E    | -5184 0                         | -112.4 -112.4             | 0.17 (1)               | 4.13                        | F-H   | -4300 0                         | 0.42 (1)               |
| E-F    | -5448 0                         | -112.4 -112.4             | 0.19 (1)               | 4.02                        | I-F   | 0 5827                          | 0.72 (1)               |
| F-G    | 0 0                             | -112.4 -112.4             | 0.01 (1)               | 10.00                       | I-E   | -127 13                         | 0.01 (1)               |
| K-B    | -332 0                          | 0.0 0.0                   | 0.02 (1)               | 7.81                        | J-E   | -357 0                          | 0.05 (1)               |
| H-G    | -45 0                           | 0.0 0.0                   | 0.00 (1)               | 7.81                        |       |                                 |                        |
| K-L    | 0 1068                          | -18.5 -18.5               | 0.50 (1)               | 10.00                       |       |                                 |                        |
| L-M    | 0 1068                          | -18.5 -18.5               | 0.50 (1)               | 10.00                       |       |                                 |                        |
| M-J    | 0 1068                          | -18.5 -18.5               | 0.50 (1)               | 10.00                       |       |                                 |                        |
| J-N    | 0 5448                          | -18.5 -18.5               | 0.72 (1)               | 10.00                       |       |                                 |                        |
| N-O    | 0 5448                          | -18.5 -18.5               | 0.72 (1)               | 10.00                       |       |                                 |                        |
| O-I    | 0 5448                          | -18.5 -18.5               | 0.72 (1)               | 10.00                       |       |                                 |                        |
| I-P    | 0 1151                          | -18.5 -18.5               | 0.59 (1)               | 10.00                       |       |                                 |                        |
| P-Q    | 0 1151                          | -18.5 -18.5               | 0.59 (1)               | 10.00                       |       |                                 |                        |
| Q-H    | 0 1151                          | -18.5 -18.5               | 0.59 (1)               | 10.00                       |       |                                 |                        |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1   | MAX.  | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-------|-------|------|------|------|-------|------|-------|
| L  | 7-4    | -1150 | -1150 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| M  | 2-7-4  | -1147 | -1147 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| N  | 4-7-4  | -1147 | -1147 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| O  | 6-7-4  | -1147 | -1147 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| P  | 7-11-4 | -1147 | -1147 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| Q  | 9-11-4 | -1147 | -1147 | ---  | BACK | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|              |               |
|--------------|---------------|
| TOP CH.      | LL = 32.5 PSF |
|              | DL = 6.0 PSF  |
| BOT CH.      | LL = 0.0 PSF  |
|              | DL = 7.4 PSF  |
| TOTAL LOAD = | 45.9 PSF      |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.37")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.05")  
ALLOWABLE DEFL. (TL) = L/360 (0.37")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.09")

CSI: TC=0.19:1.00 (E-F:1), BC=0.72:1.00 (I-J:1), WB=0.72:1.00 (F-I:1), SS=0.67:1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

##### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR   | SECTION            |
|-----------------|---------|--------------------|
| (PSI)           | (PLI)   | (PLI)              |
| MAX MIN         | MAX MIN | MAX MIN            |
| MT20            | 650 371 | 1747 788 1987 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (J) (INPUT = 0.90)  
JSI METAL= 0.65 (I) (INPUT = 1.00)



Structural component only  
DWG# T-2028270

|                                 |            |             |     |                    |          |
|---------------------------------|------------|-------------|-----|--------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.          | DRWG NO. |
| 415008                          | T18        | 1           | 2   | BAYVIEW WELLINGTON |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                    |          |

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**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TTWW+m  | MT20   | 7.0 | 8.0 | Edge |      |
| D  | TMW+w   | MT20   | 2.0 | 4.0 |      |      |
| E  | TMWW-l  | MT20   | 4.0 | 4.0 |      |      |
| F  | TTWW-m  | MT20   | 7.0 | 8.0 | Edge |      |
| G  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVW1-t | MT20   | 5.0 | 6.0 |      |      |
| I  | BMWW-t  | MT20   | 6.0 | 9.0 | 4.50 | 2.50 |
| J  | BMWWW-t | MT20   | 8.0 | 9.0 | 4.25 | 4.50 |
| K  | BMVW1-t | MT20   | 5.0 | 6.0 |      |      |

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

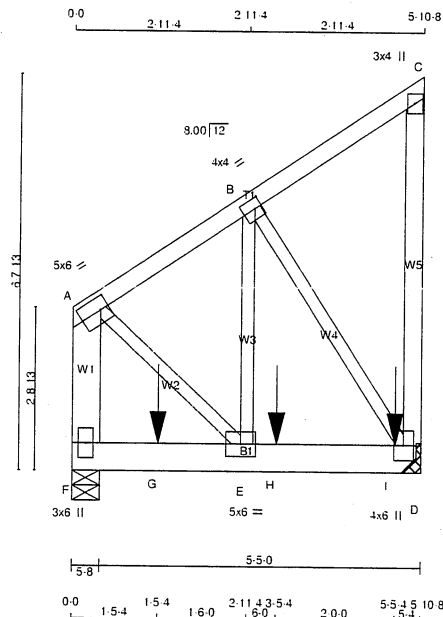


Structural component only  
DWG# T-2028270 *me*

|                           |                          |                      |                 |                                        |          |
|---------------------------|--------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b> | TRUSS NAME<br><b>T19</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|----------------------------------------|----------|

Tamarack Roof Truss, Burlington

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Scale = 1:37.0

TOTAL WEIGHT = 2 X 39 = 78 lb

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

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD (PLF)  |
|------------------------------------------|----------------------|-------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |             |
| A - C                                    | 1 12                 | TOP         |
| C - D                                    | 1 12                 | SIDE(105.0) |
| F - A                                    | 2 12                 | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| F - D                                    | 2 12                 | SIDE(122.0) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| 2x3                                      | 1 6                  |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| A  | TMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 1.75 |
| B  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| C  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG  | REQD BRG |
|----|-------------------------|------|---------------------------------|------|------------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |            |          |
| D  | 2037                    | 0    | 2037                            | 0    | MECHANICAL |          |
| F  | 1642                    | 0    | 1642                            | 0    | 5-8        | 5-8      |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 4-0.

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX. MIN. COMPONENT REACTIONS |      |            |      |       |      |
|-----------|----------|-------------------------------|------|------------|------|-------|------|
| JT        | COMBINED | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
| D         | 1422     | 1034 0                        | 0 0  | 0 0        | 0 0  | 388 0 | 0 0  |
| F         | 1146     | 841 0                         | 0 0  | 0 0        | 0 0  | 305 0 | 0 0  |

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

#### 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. FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1    | MAX. CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 | MAX. CSI (LC) |
| FR-TO  |                  | FROM                      | TO     |               |                    | FR-TO |                  | FROM                      | TO  |               |
| A-B    | -896.0           | -112.4                    | -112.4 | 0.08 (1)      | 6.25               | E-B   | 0                | 1217                      |     | 0.15 (1)      |
| B-C    | -20.0            | -112.4                    | -112.4 | 0.08 (1)      | 6.25               | B-D   | -1349.0          |                           |     | 0.29 (1)      |
| D-C    | -129.0           | 0.0                       | 0.0    | 0.05 (1)      | 7.81               | A-E   | 0                | 973                       |     | 0.12 (1)      |
| F-A    | -1241.0          | 0.0                       | 0.0    | 0.06 (1)      | 7.81               |       |                  |                           |     |               |
|        |                  |                           |        |               |                    |       |                  |                           |     |               |
| F-G    | 0.0              | -18.5                     | -18.5  | 0.21 (1)      | 10.00              |       |                  |                           |     |               |
| G-E    | 0.0              | -18.5                     | -18.5  | 0.21 (1)      | 10.00              |       |                  |                           |     |               |
| E-H    | 0.762            | -18.5                     | -18.5  | 0.21 (1)      | 10.00              |       |                  |                           |     |               |
| H-I    | 0.762            | -18.5                     | -18.5  | 0.21 (1)      | 10.00              |       |                  |                           |     |               |
| I-D    | 0.762            | -18.5                     | -18.5  | 0.21 (1)      | 10.00              |       |                  |                           |     |               |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.  | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|-------|------|------|------|-------|------|-------|------|-------|
| G  | 1-5-4 | -710 | -710 | ---  | TOP   | VERT | TOTAL | ---  | C1    |
| H  | 3-5-4 | -710 | -710 | ---  | TOP   | VERT | TOTAL | ---  | C1    |
| I  | 5-5-4 | -609 | -609 | ---  | FRONT | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 32.5 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 45.9 PSF

##### SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.08/1.00 (A-B:1), BC=0.21/1.00 (D-E:1), WB=0.29/1.00 (B-D:1), SSI=0.38/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR (PSI) | SECTION (PLI)      |
|-------|-----------|-------------|--------------------|
| MT20  | 650       | 371         | 1747 788 1987 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.72 (B) (INPUT = 0.90)  
JSI METAL = 0.17 (D) (INPUT = 1.00)



Structural component only  
DWG# T-2028271

CONTINUED ON PAGE 2

|                                 |            |             |     |                    |          |
|---------------------------------|------------|-------------|-----|--------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.          | DRWG NO. |
| 415008                          | T19        | 1           | 2   | BAYVIEW WELLINGTON |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                    |          |

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**PLATES (table is in inches)**

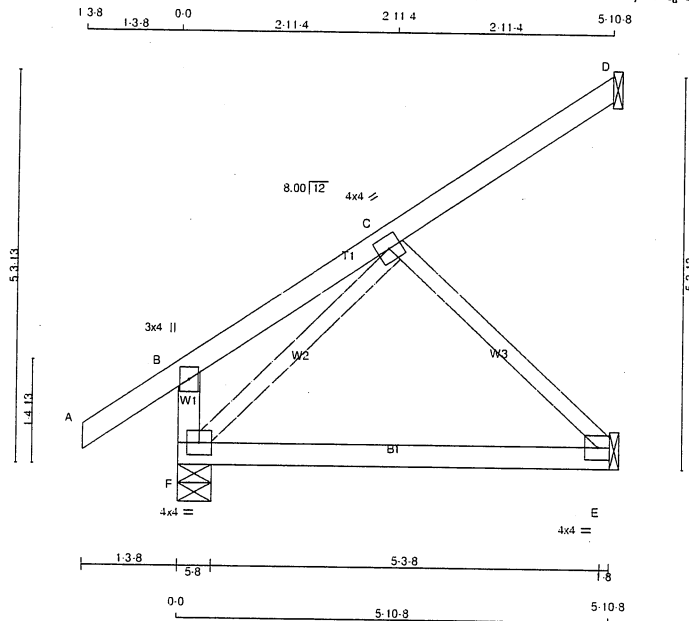
| JT | TYPE    | PLATES | W   | LEN | Y | X |
|----|---------|--------|-----|-----|---|---|
| D  | BMVW1+p | MT20   | 4.0 | 6.0 |   |   |
| E  | BMWW-1  | MT20   | 5.0 | 6.0 |   |   |
| F  | BMV1+p  | MT20   | 3.0 | 6.0 |   |   |



Structural component only  
DWG# T-2028271

|                                 |            |          |     |                    |          |
|---------------------------------|------------|----------|-----|--------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.          | DRWG NO. |
| 415008                          | J2         | 22       | 1   | BAYVIEW WELLINGTON |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.        |          |

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TOTAL WEIGHT = 22 X 24 = 531 lb

| LUMBER                |      |        |        |     |
|-----------------------|------|--------|--------|-----|
| N. L. G. A. RULES     |      |        |        |     |
| CHORDS                | SIZE | LUMBER | DESCR. |     |
| F - B                 | 2x4  | DRY    | No.2   | SPF |
| A - D                 | 2x4  | DRY    | No.2   | SPF |
| F - 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  |
| B                           | TMV+p   | MT20   | 3.0 | 4.0 |      |
| C                           | TMWW-t  | MT20   | 4.0 | 4.0 |      |
| E                           | BMW1-t  | MT20   | 4.0 | 4.0 | Edge |
| F                           | BMVW1-t | MT20   | 4.0 | 4.0 |      |

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

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQRD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|-----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                 |
| F  | 536                     | 0    | 536                             | 0    | 5-8             | 5-8             |
| D  | 133                     | 0    | 133                             | 0    | 1-8             | 1-8             |
| E  | 253                     | 0    | 253                             | 0    | 1-8             | 1-8             |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) D, E

#### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED |      | MAX. MIN. COMPONENT REACTIONS |      | WIND | DEAD | SOIL |
|----|--------------------|------|-------------------------------|------|------|------|------|
|    | SNOW               | LIVE | PERM. LIVE                    | WIND |      |      |      |
| F  | 373                | 278  | 0                             | 0    | 0    | 94   | 0    |
| D  | 91                 | 77   | 0                             | 0    | 0    | 14   | 0    |
| E  | 179                | 115  | 0                             | 0    | 0    | 64   | 0    |

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

#### 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)

| FR-TO | CHORDS MAX. FACTORED MEMB. FORCE (LBS) |     | FACTORED VERT. LOAD (PLF) |        | MAX. CSI (LC) | UNBRAC LENGTH | WEBS MAX. FACTORED MEMB. FORCE (LBS) |      | MAX. CSI (LC) |
|-------|----------------------------------------|-----|---------------------------|--------|---------------|---------------|--------------------------------------|------|---------------|
|       | FROM                                   | TO  | FROM                      | TO     |               |               | FROM                                 | TO   |               |
| F-B   | -272                                   | 0   | 0.0                       | 0.0    | 0.03 (1)      | 7.81          | C-E                                  | -283 | 0             |
| A-B   | 0                                      | 43  | -112.4                    | -112.4 | 0.15 (1)      | 10.00         | F-C                                  | -290 | 0             |
| B-C   | 0                                      | 23  | -112.4                    | -112.4 | 0.16 (1)      | 10.00         |                                      |      | 0.08 (1)      |
| C-D   | -21                                    | 0   | -112.4                    | -112.4 | 0.16 (1)      | 6.25          |                                      |      |               |
| F-E   | 0                                      | 200 | -18.5                     | -18.5  | 0.19 (4)      | 10.00         |                                      |      |               |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 32.5 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 45.9 PSF

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.16/1.00 (B-C:1), BC=0.19/1.00 (E-F:4),  
WB=0.09/1.00 (C-E:1), SSI=0.14/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR (PSI) | SECTION (PLI)      |
|-------|-----------|-------------|--------------------|
|       | MAX       | MIN         | MAX MIN            |
| MT20  | 650       | 371         | 1747 788 1987 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.23 (F) (INPUT = 0.90 )  
JSI METAL = 0.09 (B) (INPUT = 1.00 )

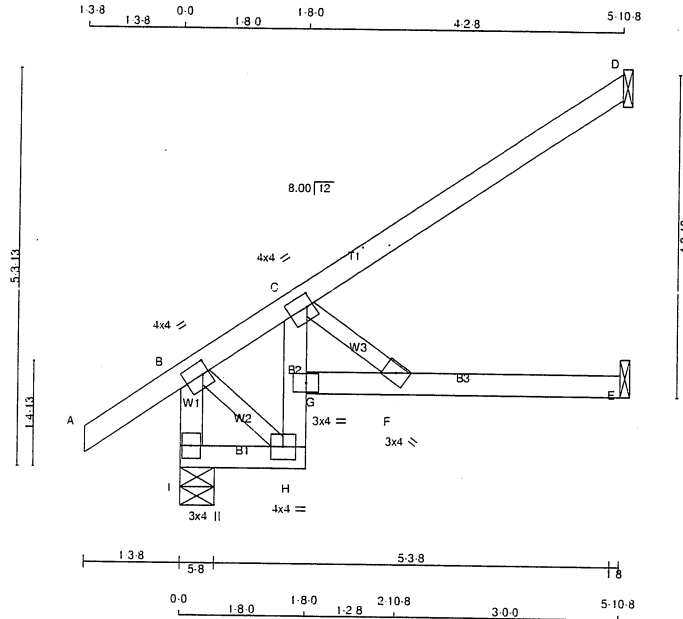


Structural component only  
DWG# T-2028244

|                           |                          |                      |                 |                                        |          |
|---------------------------|--------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b> | TRUSS NAME<br><b>J2S</b> | QUANTITY<br><b>6</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
| TRUSS DESC.               |                          |                      |                 |                                        |          |

Tamarack Roof Truss, Burlington

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Scale = 1:29.4

TOTAL WEIGHT = 6 X 22 = 135 lb

#### LUMBER

N. L. G. A. RULES

| CHORDS                | SIZE | LUMBER | DESCR.   |
|-----------------------|------|--------|----------|
| I - B                 | 2x4  | DRY    | No.2 SPF |
| A - D                 | 2x4  | DRY    | No.2 SPF |
| I - H                 | 2x4  | DRY    | No.2 SPF |
| H - C                 | 2x4  | DRY    | No.2 SPF |
| G - 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    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.00 |
| C  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.00 |
| F  | BMVW-w | MT20   | 3.0 | 4.0 |      |      |
| G  | BMVW-t | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVW-t | MT20   | 4.0 | 4.0 |      |      |
| I  | BMVW-p | MT20   | 3.0 | 4.0 |      |      |

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

##### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| I  | 557                     | 557                             | 0         | 0        |
| D  | 239                     | 239                             | 5-8       | 5-8      |
| E  | 128                     | 128                             | 1-8       | 1-8      |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) D, E

##### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | SNOW | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|----------|-------------------------------|------|------|------------|------|------|------|
| I  | 387      | 290                           | 0    | 0    | 0          | 0    | 97   | 0    |
| D  | 164      | 134                           | 0    | 0    | 0          | 0    | 31   | 0    |
| E  | 93       | 47                            | 0    | 0    | 0          | 0    | 46   | 0    |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 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 (PLF) (LC1) MAX | MEMB.  | FORCE (LBS) MAX |
| FR-TO  |               | FROM TO                    | FR-TO  |                 |
| I-B    | -543          | 0.0                        | 0.0    | 0.06 (1)        |
| A-B    | 0             | -112.4                     | -112.4 | 0.15 (1)        |
| B-C    | -248          | 0                          | -112.4 | 0.14 (1)        |
| C-D    | -3            | -112.4                     | -112.4 | 0.35 (1)        |
| I-H    | 0             | -18.5                      | -18.5  | 0.01 (4)        |
| H-G    | -115          | 0                          | 0      | 0.25 (1)        |
| G-C    | 0             | 119                        | 0      | 0.27 (1)        |
| G-F    | 0             | 348                        | -18.5  | -18.5           |
| F-E    | 0             | 0                          | -18.5  | -18.5           |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |               |
|------------|---------------|
| TOP CH.    | LL = 32.5 PSF |
|            | DL = 6.0 PSF  |
| BOT CH.    | LL = 0.0 PSF  |
|            | DL = 7.4 PSF  |
| TOTAL LOAD | = 45.9 PSF    |

##### SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(LL) = L/897 (0.08")  
ALLOWABLE DEFL.(TL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(TL) = L/470 (0.15")

CSI: TC=0.35/1.00 (C-D:1), BC=0.46/1.00 (F-G:1),  
WB=0.07/1.00 (C-F:1), SSI=0.18/1.00 (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 = 1.00

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

##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
|       | (PSI)     | (PLI) | (PLI)   |
| MT20  | 650       | 371   | 1747    |
|       | 788       | 1987  | 1873    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

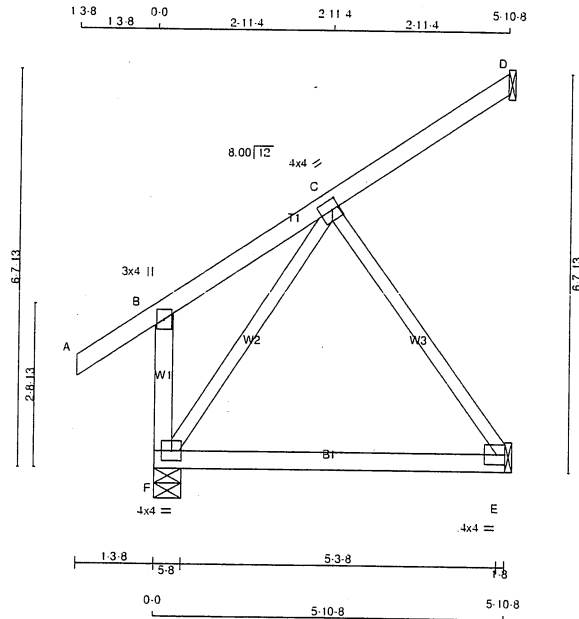
JSI GRIP = 0.35 (C) (INPUT = 0.90)  
JSI METAL = 0.15 (F) (INPUT = 1.00)



Structural component only  
DWG# T-2028245

|                                 |            |          |     |                    |          |
|---------------------------------|------------|----------|-----|--------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.          | DRWG NO. |
| 415008                          | J2S2       | 3        | 1   | BAYVIEW WELLINGTON |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.        |          |

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Scale = 1:36.7

#### LUMBER

N. L. G. A. RULES

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

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

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| E  | BMW1-t  | MT20   | 4.0 | 4.0 |      | Edge |
| F  | BMWV1-t | MT20   | 4.0 | 4.0 |      |      |

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | HORZ                            | DOWN      | HORZ     |
| F        | 536                     | 0                               | 536       | 0        |
| D        | 125                     | 0                               | 125       | 0        |
| E        | 261                     | 0                               | 261       | 0        |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) D, E

#### UNFACTORED REACTIONS

| JT | 1ST LOASE | SNOW | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|-----------|------|------|------------|------|------|------|
| F  | 373       | 279  | 0    | 0          | 0    | 94   | 0    |
| D  | 86        | 72   | 0    | 0          | 0    | 13   | 0    |
| E  | 185       | 120  | 0    | 0          | 0    | 65   | 0    |

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

#### 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 | MAX. FACTORED | FACTORED             | WEBS                     | MAX. FACTORED     |
|--------|---------------|----------------------|--------------------------|-------------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD LC1 (PLF) | MAX. UNBRAC LENGTH FR-TO | MEMB. FORCE (LBS) |
| F-B    | -280          | 0                    | 0.0                      | 0.0               |
| A-B    | 0             | 43                   | -112.4                   | -112.4            |
| B-C    | 0             | 22                   | -112.4                   | -112.4            |
| C-D    | -22           | 0                    | -112.4                   | -112.4            |
| F-E    | 0             | 136                  | -18.5                    | -18.5             |

TOTAL WEIGHT = 3 X 27 = 82 lb

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 32.5 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 45.9 PSF

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (TL) = L/360 (0.19")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.05")

CSI: TC=0.16/1.00 (B-C:1), BC=0.19/1.00 (E-F:4), WB=0.12/1.00 (C-E:1), SSI=0.13/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.22 (C) (INPUT = 0.90)  
JSI METAL = 0.10 (B) (INPUT = 1.00)

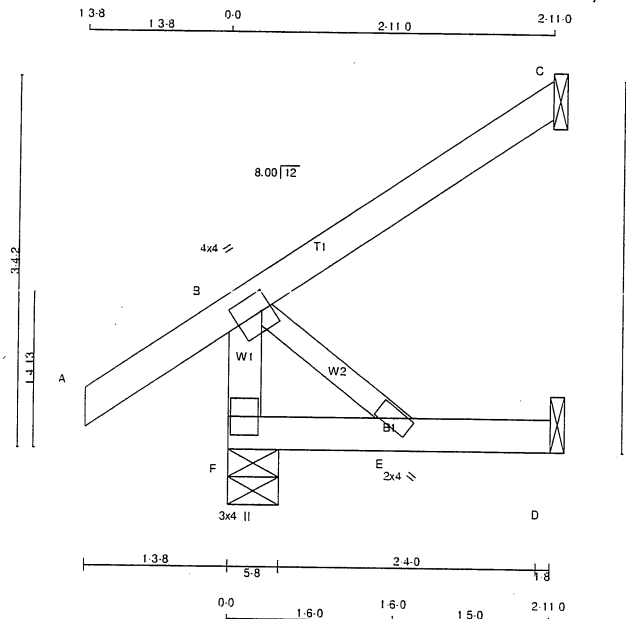


Structural component only  
DWG# T-2028246

|                           |                         |                      |                 |                                        |          |
|---------------------------|-------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b> | TRUSS NAME<br><b>J3</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
|---------------------------|-------------------------|----------------------|-----------------|----------------------------------------|----------|

Tamarack Roof Truss, Burlington

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Scale = 1:19.8

#### LUMBER

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

ALL WEBS 2x3 DRY No.2 7.14 PSF  
DRY: SEASONED LUMBER

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.00 |
| E  | BMV+w  | MT20   | 2.0 | 4.0 |      |      |
| F  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

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

##### BEARINGS

| BEARINGS |                            |      |                                    |      |        |              |             |
|----------|----------------------------|------|------------------------------------|------|--------|--------------|-------------|
| JT       | FACTORED<br>GROSS REACTION |      | MAXIMUM FACTORED<br>GROSS REACTION |      |        | INPUT<br>BRG | REQD<br>BRG |
|          | VERT                       | HORZ | DOWN                               | HORZ | UPLIFT | IN-SX        | IN-SX       |
| F        | 345                        | 0    | 345                                | 0    | 0      | 5-8          | 5-8         |
| C        | 164                        | 0    | 164                                | 0    | 0      | 1-8          | 1-8         |
| D        | 27                         | 0    | 30                                 | 0    | 0      | 1-8          | 1-8         |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

##### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED | MAX. MIN. COMPONENT REACTIONS |      |            |      |      |      |
|----|--------------------|-------------------------------|------|------------|------|------|------|
|    |                    | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
| F  | 239                | 184.0                         | 0.0  | 0.0        | 0.0  | 56.0 | 0.0  |
| C  | 112                | 95.0                          | 0.0  | 0.0        | 0.0  | 18.0 | 0.0  |
| D  | 22                 | 0.0                           | 0.0  | 0.0        | 0.0  | 22.0 | 0.0  |

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

##### 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: (5)

| MEMB. | CHORDS                    |                           | WEBS          |                    |                                 |               |
|-------|---------------------------|---------------------------|---------------|--------------------|---------------------------------|---------------|
|       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS1 (LC) | MAX. UNBRAC LENGTH | MEMB. MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |
| FR-TO |                           | FROM TO                   |               |                    |                                 |               |
| F-B   | -318.0                    | 0.0                       | 0.0           | 0.03 (1)           | 7.81                            | 0.00 (1)      |
| A-B   | 0.43                      | -112.4                    | -112.4        | 0.15 (5)           | 10.00                           |               |
| B-C   | 0.0                       | -112.4                    | -112.4        | 0.16 (1)           | 10.00                           |               |
| F-E   | 0.0                       | -18.5                     | -18.5         | 0.05 (4)           | 10.00                           |               |
| E-D   | 0.0                       | -18.5                     | -18.5         | 0.05 (4)           | 10.00                           |               |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 12 = 24 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |   |      |     |
|------------|---|------|-----|
| TOP CH. LL | = | 32.5 | PSF |
| DL         | = | 6.0  | PSF |
| BOT CH. LL | = | 0.0  | PSF |
| DL         | = | 7.4  | PSF |
| TOTAL LOAD | = | 45.9 | PSF |

##### SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.00")  
ALLOWABLE DEFL.(TL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(TL)= L/999 (0.00")

CS1: TC=0.16/1.00 (B-C:1), BC=0.05/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SSI=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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    | 650 371   | 1747 788 | 1987 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

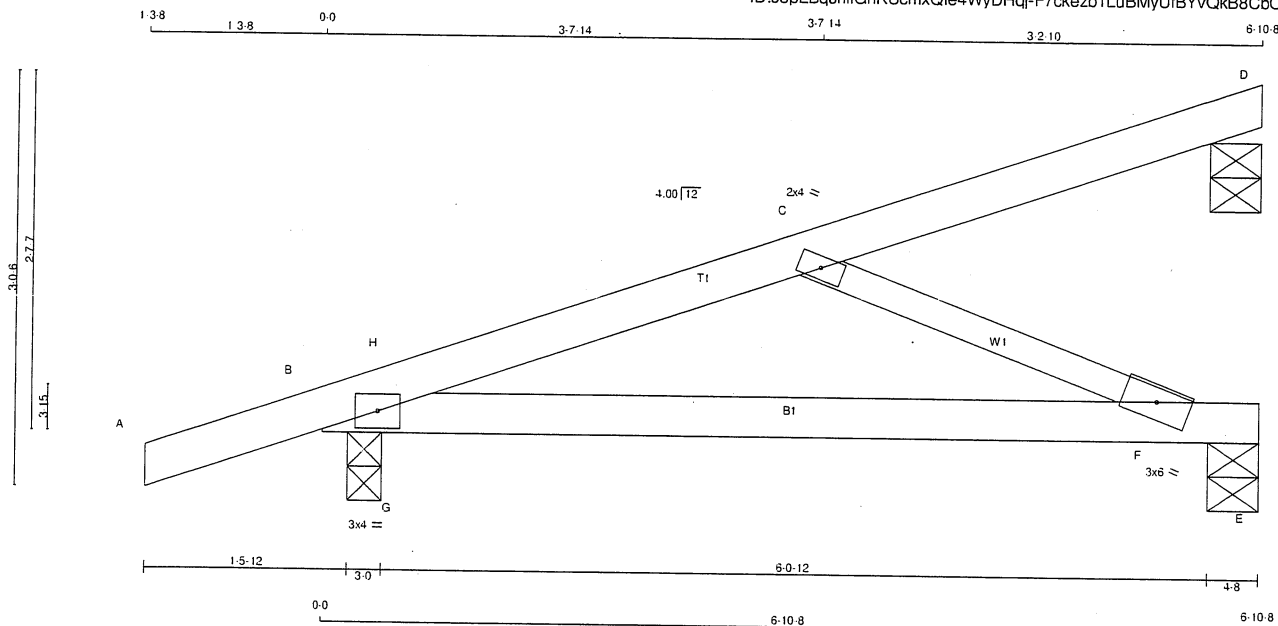
JSI GRIP= 0.20 (B) (INPUT = 0.90)  
JSI METAL= 0.06 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2028247

|                                 |                         |                      |                 |                                        |          |
|---------------------------------|-------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b>       | TRUSS NAME<br><b>J5</b> | QUANTITY<br><b>8</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 | TRUSS DESC.                            |          |

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TOTAL WEIGHT = 8 X 20 = 162 lb [M][F]

#### LUMBER

|                      |      |        |        |     |  |
|----------------------|------|--------|--------|-----|--|
| N. L. G. A. RULES    |      |        |        |     |  |
| CHORDS               | SIZE | LUMBER | DESCR. |     |  |
| A - D                | 2x4  | DRY    | No.2   | SPF |  |
| B - 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 |
|----|--------|--------|-----|-----|---|---|
| B  | TMB1-I | MT20   | 3.0 | 4.0 |   |   |
| C  | TMW+w  | MT20   | 2.0 | 4.0 |   |   |
| F  | BMW+w  | MT20   | 3.0 | 6.0 |   |   |

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED DOWN REACTION |      | INPUT BRG UPLIFT |       | REORD BRG IN-SX |       |
|----|-------------------------|------|--------------------------------|------|------------------|-------|-----------------|-------|
|    | VERT                    | HORZ | DOWN                           | HORZ | IN-SX            | IN-SX | IN-SX           | IN-SX |
| D  | 148                     | 0    | 148                            | 0    | 0                | 4-8   | 4-8             | 4-8   |
| E  | 302                     | 0    | 302                            | 0    | 0                | 4-8   | 4-8             | 4-8   |
| B  | 600                     | 0    | 600                            | 0    | 0                | 3-0   | 3-0             | 3-0   |

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): D

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | SNOW | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|-----------|------|------|------------|------|------|------|
| D  | 101       | 86   | 0    | 0          | 0    | 15   | 0    |
| E  | 214       | 137  | 0    | 0          | 0    | 77   | 0    |
| B  | 418       | 310  | 0    | 0          | 0    | 108  | 0    |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               | WEBS  |                           |               |          |
|--------|---------------------------|---------------------------|---------------|-------|---------------------------|---------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |          |
| FR-TO  |                           |                           |               | FR-TO |                           |               |          |
| A-B    | 0 22                      | -112.4 -112.4             | 0.14 (1)      | 10.00 | C-F                       | -644 0        | 0.14 (1) |
| B-H    | -706 0                    | -112.4 -112.4             | 0.16 (1)      | 6.25  | G-H                       | 0 162         | 0.00 (1) |
| H-C    | -582 0                    | -112.4 -112.4             | 0.25 (1)      | 6.25  |                           |               |          |
| C-D    | -11 0                     | -112.4 -112.4             | 0.12 (1)      | 6.25  |                           |               |          |
| B-G    | 0 579                     | -18.5 -18.5               | 0.14 (1)      | 10.00 |                           |               |          |
| G-F    | 0 579                     | -18.5 -18.5               | 0.39 (1)      | 10.00 |                           |               |          |
| F-E    | 0 0                       | -18.5 -18.5               | 0.30 (1)      | 10.00 |                           |               |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |      |      |     |
|------------|----|------|------|-----|
| TOP CH.    | LL | =    | 32.5 | PSF |
|            | DL | =    | 6.0  | PSF |
| BOT CH.    | LL | =    | 0.0  | PSF |
|            | DL | =    | 7.4  | PSF |
| TOTAL LOAD | =  | 45.9 | PSF  |     |

##### SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.23")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")  
ALLOWABLE DEFL.(TL) = L/360 (0.23")  
CALCULATED VERT. DEFL.(TL) = L/464 (0.18")

CSI: TC=0.25/1.00 (C-H:1), BC=0.39/1.00 (F-G:1), WB=0.14/1.00 (C-F:1), SS=0.24/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

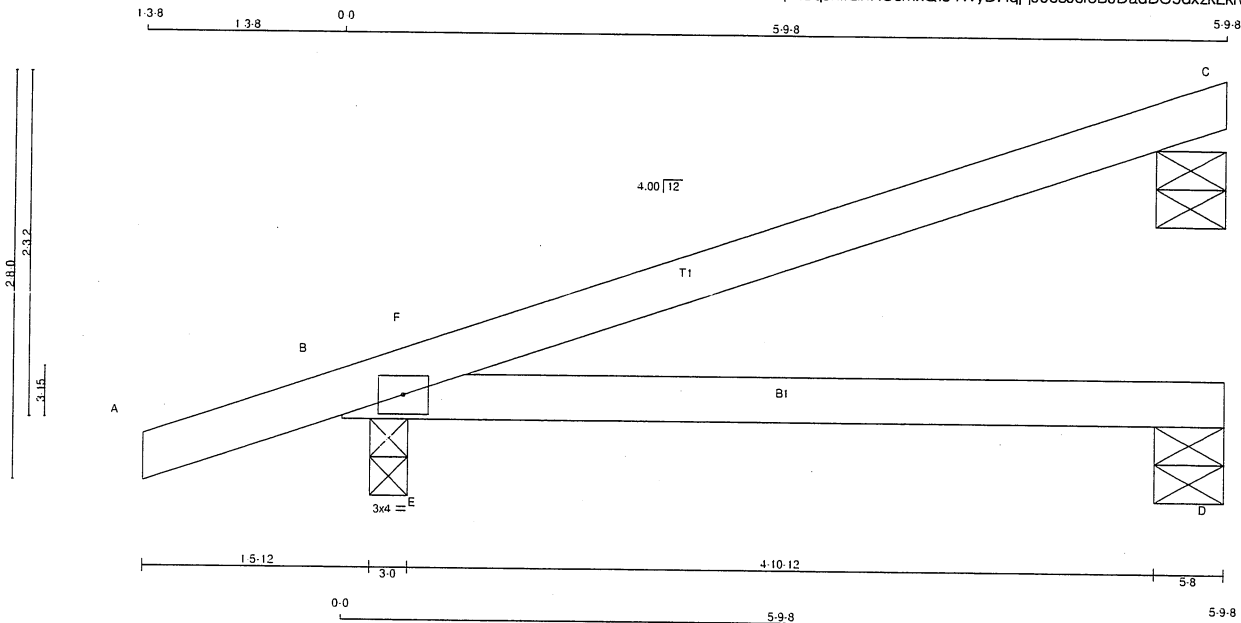
JSI GRIP = 0.54 (C) (INPUT = 0.90)  
JSI METAL = 0.32 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2028248

|                                 |                         |                      |                 |                                        |          |
|---------------------------------|-------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b>       | TRUSS NAME<br><b>J6</b> | QUANTITY<br><b>6</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 | TRUSS DESC.                            |          |

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TOTAL WEIGHT = 6 X 15 = 91 lb [M]

#### LUMBER

N. L. G. A. RULES  
CHORDS SIZE  
A - C 2x4 DRY  
B - D 2x4 DRY

LUMBER  
No.2  
No.2

DESCR.  
SPF  
SPF

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT TYPE | PLATES | W    | LEN | Y   | X |
|---------|--------|------|-----|-----|---|
| B       | TMB1-I | MT20 | 3.0 | 4.0 |   |

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

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG UPLIFT IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|------------------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                        |                |
| C  | 283                     | 0    | 283                             | 0    | 5-8                    | 5-8            |
| D  | 97                      | 0    | 97                              | 0    | 5-8                    | 5-8            |
| B  | 530                     | 0    | 530                             | 0    | 3-0                    | 3-0            |

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): C

##### UNFACTORED REACTIONS

| JT | 1ST LOASE COMBINED | MAX. MIN. COMPONENT REACTIONS |      |            |      |      |      |
|----|--------------------|-------------------------------|------|------------|------|------|------|
|    |                    | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
| C  | 194                | 159 0                         | 0 0  | 0 0        | 0 0  | 36 0 | 0 0  |
| D  | 71                 | 29 0                          | 0 0  | 0 0        | 0 0  | 42 0 | 0 0  |
| B  | 369                | 275 0                         | 0 0  | 0 0        | 0 0  | 94 0 | 0 0  |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                   | WEBS  |                           |                      |                                 |
|--------|---------------------------|---------------------------|-------------------|-------|---------------------------|----------------------|---------------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX. CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH | MEMB. MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           |                           |                   | FR-TO |                           |                      |                                 |
| A-B    | 0 22                      | -112.4                    | -112.4 0.14 (1)   | E-F   | 409 12                    | 10.00                | 0.00 (1)                        |
| B-F    | -19 27                    | -112.4                    | -112.4 0.07 (4)   |       |                           |                      |                                 |
| F-C    | -3 2                      | -112.4                    | -112.4 0.48 (1)   |       |                           |                      |                                 |
| B-E    | 0 0                       | -18.5                     | -18.5 0.34 (1)    |       |                           |                      |                                 |
| E-D    | 0 0                       | -18.5                     | -18.5 0.34 (1)    |       |                           |                      |                                 |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 32.5 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 45.9 PSF

##### SPACING = 24.0 IN. C/C

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

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/823 (0.08")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/435 (0.16")

CSI: TC=0.48/1.00 (C-F:1), BC=0.34/1.00 (B-E:1), WB=0.00/1.00 (E-F:1), SSI=0.33/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) | MAX MIN | MAX MIN | MAX MIN |
|-------|-----------|-------------|---------------|---------|---------|---------|
| MT20  | 650       | 371         | 1747          | 788     | 1987    | 1873    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.36 (B) (INPUT = 0.90)  
JSI METAL = 0.09 (B) (INPUT = 1.00)

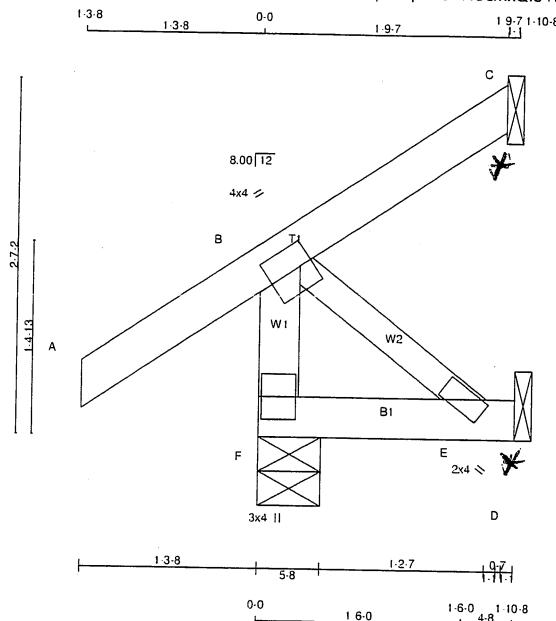


Structural component only  
DWG# T-2028249

|                                 |            |          |     |                    |          |
|---------------------------------|------------|----------|-----|--------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.          | DRWG NO. |
| 415008                          | C1         | 7        | 1   | BAYVIEW WELLINGTON |          |
| Tamarack Roof Truss, Burlington |            |          |     |                    |          |

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Scale: 3/4"=1'



#### LUMBER

| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER | DESCR. |
|-----------------------|--------|------|--------|--------|
| F - B                 | 2x4    | DRY  | No.2   | SPF    |
| A - C                 | 2x4    | DRY  | No.2   | SPF    |
| F - D                 | 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  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.00 |
| E  | BMW-w  | MT20   | 2.0 | 4.0 |      |      |
| F  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

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

| JT | FACTORED<br>GROSS REACTION |      | MAXIMUM FACTORED<br>GROSS REACTION |      | INPUT<br>BRG    | REQRD<br>BRG |
|----|----------------------------|------|------------------------------------|------|-----------------|--------------|
|    | VERT                       | HORZ | DOWN                               | HORZ | UPLIFT<br>IN-SX | IN-SX        |
| F  | 331                        | 0    | 331                                | 0    | 0               | 5-8          |
| C  | 41                         | 0    | 41                                 | 0    | -50             | 1-8          |
| D  | 17                         | 0    | 19                                 | 0    | 0               | 1-8          |

SEE MITK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS. FACTORED UPLIFT

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX. MIN. COMPONENT REACTIONS |      |            |      |      |      |
|----|-----------|-------------------------------|------|------------|------|------|------|
|    | COMBINED  | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
| F  | 229       | 181                           | 0 0  | 0 0        | 0 0  | 47 0 | 0 0  |
| C  | 28        | 24 -34                        | 0 0  | 0 0        | 0 0  | 4 0  | 0 0  |
| D  | 14        | 0 0                           | 0 0  | 0 0        | 0 0  | 14 0 | 0 0  |

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

#### 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: (5)

| MEMB. | CHORDS      |                  | FACTORED |           | MAX. UNBRACED LENGTH | MEMB. | WEBS        |           |
|-------|-------------|------------------|----------|-----------|----------------------|-------|-------------|-----------|
|       | FORCE (LBS) | VERT. LOAD (PLF) | LC1 (LC) | MAX. (LC) |                      |       | FORCE (LBS) | MAX. (LC) |
| FR-TO |             |                  |          |           |                      | FR-TO |             |           |
| F-B   | -314        | 0                | 0.0      | 0.0       | 0.03 (1)             | 7.81  | 0           | 0         |
| A-B   | 0           | 43               | -112.4   | -112.4    | 0.15 (1)             | 10.00 |             |           |
| B-C   | -33         | 0                | -112.4   | -112.4    | 0.14 (1)             | 6.25  |             |           |
| F-E   | 0           | 0                | -18.5    | -18.5     | 0.02 (4)             | 10.00 |             |           |
| E-D   | 0           | 0                | -18.5    | -18.5     | 0.01 (4)             | 10.00 |             |           |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 7 X 9 = 63 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 32.5 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 45.9 | PSF |

##### SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.15/1.00 (A-B:1), BC=0.02/1.00 (E-F:4),  
WB=0.00/1.00 (B-E:1), SSI=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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) | (PLI)   |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 650       | 371   | 1747    |
|       | 788       | 1987  | 1873    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (B) (INPUT = 0.90)  
JSI METAL= 0.06 (B) (INPUT = 1.00)



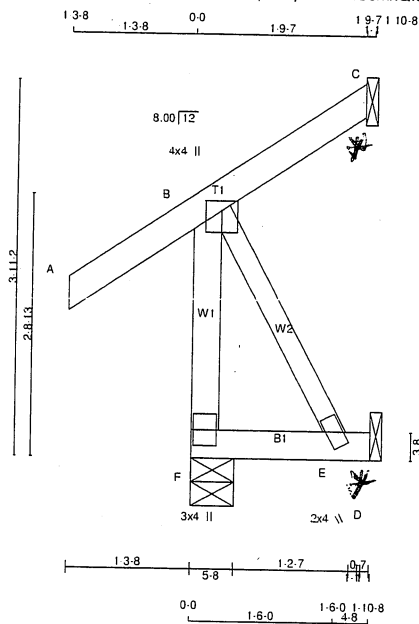
Structural component only  
DWG# T-2028235

|                           |                          |                      |                 |                                        |          |
|---------------------------|--------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b> | TRUSS NAME<br><b>C1S</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
| TRUSS DESC.               |                          |                      |                 |                                        |          |

Tamarack Roof Truss, Burlington

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Scale = 1:22.9



#### LUMBER

| N. L. G. A. RULES    | CHORDS | SIZE | LUMBER | DESCR. |
|----------------------|--------|------|--------|--------|
| F - B                | 2x4    | DRY  | No.2   | SPF    |
| A - C                | 2x4    | DRY  | No.2   | SPF    |
| F - D                | 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  | TMVW+p | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| E  | BMW+w  | MT20   | 2.0 | 4.0 |      |      |
| F  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

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

##### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| F  | 331                     | 331                             | 0         | 5-8      |
| C  | 41                      | 41                              | 0         | 1-8      |
| D  | 17                      | 19                              | 0         | 1-8      |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS. FACTORED UPLIFT

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | SNOW | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|-----------|------|------|------------|------|------|------|
| F  | 229       | 181  | 0    | 0          | 0    | 47   | 0    |
| C  | 28        | 24   | 34   | 0          | 0    | 4    | 0    |
| D  | 14        | 0    | 0    | 0          | 0    | 14   | 0    |

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

##### 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: (5)

| MEMB. | CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC) | MAX. FACTORED UNBRACED LENGTH (LC) | MEMB.    | WEBS | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC) |
|-------|--------|---------------------------|---------------------------|-------------------------------|------------------------------------|----------|------|---------------------------|-------------------------------|
|       |        |                           |                           |                               |                                    |          |      |                           |                               |
| F-B   |        | -314                      | 0                         | 0.0                           | 0.05 (1)                           | 7.81     | B-E  | 0                         | 0.00 (1)                      |
| A-B   |        | 0                         | 43                        | -112.4                        | -112.4                             | 0.15 (1) |      |                           |                               |
| B-C   |        | -33                       | 0                         | -112.4                        | -112.4                             | 0.14 (1) |      |                           |                               |
| F-E   |        | 0                         | 0                         | -18.5                         | -18.5                              | 0.02 (4) |      |                           |                               |
| E-D   |        | 0                         | 0                         | -18.5                         | -18.5                              | 0.01 (4) |      |                           |                               |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 32.5 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 45.9 | PSF |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.15/1.00 (A-B:1), BC=0.02/1.00 (E-F:4),  
WB=0.00/1.00 (B-E:1), SSI=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) | (PLI)   |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 650       | 371   | 1747    |
|       | 788       | 1987  | 1873    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

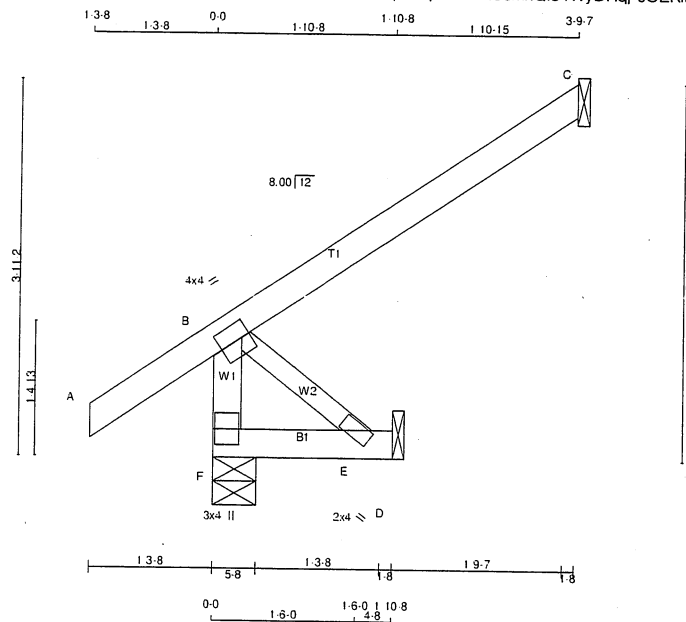
JSI GRIP= 0.21 (B) (INPUT = 0.90)  
JSI METAL= 0.06 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2028236

|                                 |                  |               |          |                                 |          |
|---------------------------------|------------------|---------------|----------|---------------------------------|----------|
| JOB NAME<br>415008              | TRUSS NAME<br>C2 | QUANTITY<br>6 | PLY<br>1 | JOB DESC.<br>BAYVIEW WELLINGTON | DRWG NO. |
| Tamarack Roof Truss, Burlington |                  |               |          | TRUSS DESC.                     |          |

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Scale = 1:22.9

| LUMBER               |        |      |        |  | DESCR. |
|----------------------|--------|------|--------|--|--------|
| N. L. G. A. RULES    | CHORDS | SIZE | LUMBER |  |        |
| F - B                | 2x4    | DRY  | No.2   |  | SPF    |
| A - C                | 2x4    | DRY  | No.2   |  | SPF    |
| F - D                | 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                           | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.00 |
| E                           | BMW+w  | MT20   | 2.0 | 4.0 |      |      |
| F                           | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| F  | 385                     | 0    | 385                             | 0    | 5-8             | 5-8            |
| C  | 213                     | 0    | 213                             | 0    | 1-8             | 1-8            |
| D  | 17                      | 0    | 17                              | 0    | 1-8             | 1-8            |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED |      | MAX. MIN. COMPONENT REACTIONS |      | PERM. LIVE | WIND | DEAD | SOIL |
|----|--------------------|------|-------------------------------|------|------------|------|------|------|
|    | SNOW               | LIVE | SNOW                          | LIVE |            |      |      |      |
| F  | 265                | 212  | 0                             | 0    | 0          | 0    | 53   | 0    |
| C  | 146                | 123  | 0                             | 0    | 0          | 0    | 23   | 0    |
| D  | 14                 | 0    | 0                             | 0    | 0          | 0    | 14   | 0    |

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

#### 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: (5)

| CHORDS |                           | WEBS  |                           |
|--------|---------------------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           | FR-TO |                           |
| F-B    | -367                      | B-E   | 0                         |
| A-B    | 0                         |       |                           |
| B-C    | 0                         |       |                           |
| F-E    | 0                         |       |                           |
| E-D    | 0                         |       |                           |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 6 X 12 = 71 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 32.5 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 45.9 | PSF |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.27/1.00 (B-C:1), BC=0.02/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SSI=0.14/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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) | (PLI)   |
| MAX   | MIN        | MAX   | MIN     |
| MT20  | 650        | 371   | 1747    |
|       |            | 788   | 1987    |
|       |            | 1873  |         |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

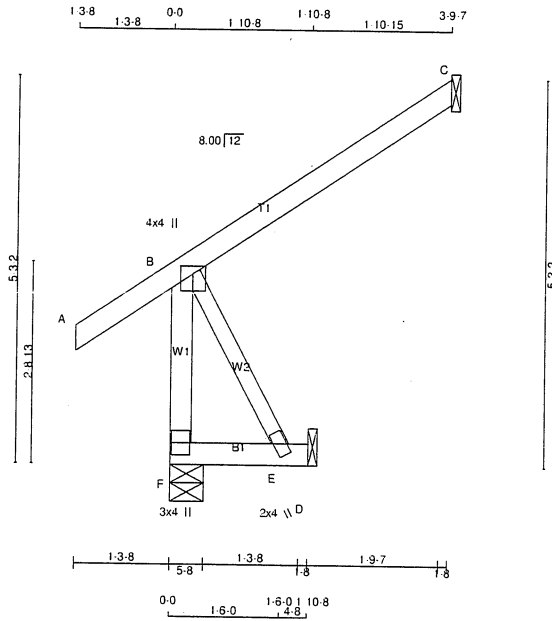
JSI GRIP= 0.23 (B) (INPUT = 0.90)  
JSI METAL= 0.07 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2028237

|                                 |                          |                      |                 |                                        |          |
|---------------------------------|--------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b>       | TRUSS NAME<br><b>C2S</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                        |          |

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Scale = 1/20.8

| LUMBER               |        |      |        |        |
|----------------------|--------|------|--------|--------|
| N. L. G. A. RULES    | CHORDS | SIZE | LUMBER | DESCR. |
| F - B                | 2x4    | DRY  | No.2   | SPF    |
| A - C                | 2x4    | DRY  | No.2   | SPF    |
| F - D                | 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                           | TMVW+p | MT20   | 4.0 | 4.0 | 1.25 2.00 |
| E                           | BMW+w  | MT20   | 2.0 | 4.0 |           |
| F                           | BMV1+p | MT20   | 3.0 | 4.0 |           |

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

| BEARINGS |      | FACTORED       |      | MAXIMUM FACTORED |      | INPUT  |       | RECORD |     |
|----------|------|----------------|------|------------------|------|--------|-------|--------|-----|
| JT       | VERT | GROSS REACTION | HORZ | DOWN             | HORZ | UPLIFT | IN-SX | IN-SX  | BRG |
| F        | 385  | 0              | 385  | 0                | 0    | 5-8    | 5-8   | 5-8    |     |
| C        | 213  | 0              | 213  | 0                | 0    | 1-8    | 1-8   | 1-8    |     |
| D        | 17   | 0              | 19   | 0                | 0    | 1-8    | 1-8   | 1-8    |     |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

| 1ST CASE |          | MAX. MIN. COMPONENT REACTIONS |      | WIND       |      | DEAD |      | SOIL |      |
|----------|----------|-------------------------------|------|------------|------|------|------|------|------|
| JT       | COMBINED | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD | SOIL | DEAD | SOIL |
| F        | 265      | 212                           | 0    | 0          | 0    | 0    | 0    | 53   | 0    |
| C        | 146      | 123                           | 0    | 0          | 0    | 0    | 0    | 23   | 0    |
| D        | 14       | 0                             | 0    | 0          | 0    | 0    | 0    | 14   | 0    |

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

#### 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: (5)

| CHORDS |             | FACTORED   |         | W E B S  |             | FACTORED    |               |
|--------|-------------|------------|---------|----------|-------------|-------------|---------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD | LC1 MAX | MEMB.    | FORCE (LBS) | MAX. UNBRAC | MAX. CSI (LC) |
| FR-TO  |             | FROM       | TO      | FR-TO    |             | LENGTH      |               |
| F-B    | -367        | 0          | 0.0     | 0.05 (1) | 7.81        | B-E         | 0 0 0.00 (1)  |
| A-B    | 0           | 43         | -112.4  | -112.4   | 0.15 (1)    | 10.00       |               |
| B-C    | 0           | 0          | -112.4  | -112.4   | 0.27 (1)    | 10.00       |               |
| F-E    | 0           | 0          | -18.5   | -18.5    | 0.02 (4)    | 10.00       |               |
| E-D    | 0           | 0          | -18.5   | -18.5    | 0.01 (4)    | 10.00       |               |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 14 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 32.5 | PSF |
|            | DL = 6.0  | PSF |
| BOT CH.    | LL = 0.0  | PSF |
|            | DL = 7.4  | PSF |
| TOTAL LOAD | 45.9      | PSF |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.27/1.00 (B-C:1), BC=0.02/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SSI=0.14/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

#### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR   | SECTION            |
|-----------------|---------|--------------------|
| (PSI)           | (PLI)   | (PLI)              |
| MAX MIN         | MAX MIN | MAX MIN            |
| MT20            | 650 371 | 1747 788 1987 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

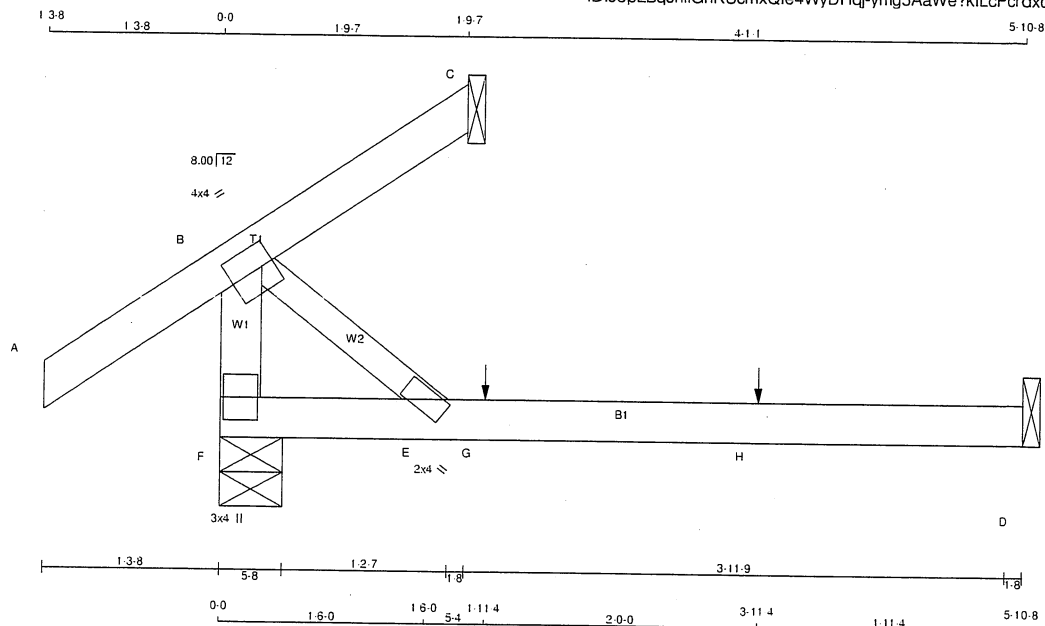
JSI GRIP = 0.24 (B) (INPUT = 0.90)  
JSI METAL = 0.07 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2028238

|                                 |            |          |     |                    |          |
|---------------------------------|------------|----------|-----|--------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.          | DRWG NO. |
| 415008                          | C5         | 6        | 1   | BAYVIEW WELLINGTON |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.        |          |

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Scale: 3/4\"=1'

TOTAL WEIGHT = 6 X 14 = 82 lb

#### LUMBER

|                       |      |        |        |     |  |
|-----------------------|------|--------|--------|-----|--|
| N. L. G. A. RULES     |      |        |        |     |  |
| CHORDS                | SIZE | LUMBER | DESCR. |     |  |
| F - B                 | 2x4  | DRY    | No.2   | SPF |  |
| A - C                 | 2x4  | DRY    | No.2   | SPF |  |
| F - D                 | 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  | TMVW-1 | MT20   | 4.0 | 4.0 | 2.00 | 1.00 |
| E  | BMV+w  | MT20   | 2.0 | 4.0 |      |      |
| F  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

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

##### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG IN-SX | REQD BRG IN-SX |
|----|-------------------------|---------------------------------|-----------------|----------------|
| F  | 368                     | 368                             | 0               | 5-8            |
| C  | 41                      | 41                              | 0               | 1-8            |
| D  | 54                      | 61                              | 0               | 1-8            |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

##### UNFACTORED REACTIONS

| JT | 1ST LOASE COMBINED | MAX. MIN. SNOW | MIN. LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|--------------------|----------------|-----------|------------|------|------|------|
| F  | 258                | 181            | 0         | 0          | 0    | 77   | 0    |
| C  | 28                 | 24             | 0         | 0          | 0    | 4    | 0    |
| D  | 43                 | 0              | 0         | 0          | 0    | 43   | 0    |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                        | WEBS  |                           |                        |  |
|--------|---------------------------|---------------------------|------------------------|-------|---------------------------|------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |  |
| FR-TO  |                           | FROM TO                   |                        | FR-TO |                           |                        |  |
| F-B    | -314                      | 0.0                       | 0.03 (1)               | B-E   | 0                         | 0.00 (1)               |  |
| A-B    | 0                         | -112.4                    | 0.15 (1)               |       |                           |                        |  |
| B-C    | -33                       | -112.4                    | 0.14 (1)               |       |                           |                        |  |
| F-E    | 0                         | -18.5                     | 0.14 (4)               |       |                           |                        |  |
| E-G    | 0                         | -18.5                     | 0.19 (4)               |       |                           |                        |  |
| G-H    | 0                         | -18.5                     | 0.19 (4)               |       |                           |                        |  |
| H-D    | 0                         | -18.5                     | 0.19 (4)               |       |                           |                        |  |

##### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1 | MAX. | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-----|------|------|------|------|-------|------|-------|
| G  | 1-11.4 | 1   | 1    | ---  | BACK | VERT | TOTAL | ---  | C1    |
| H  | 3-11.4 | 1   | 1    | ---  | BACK | VERT | TOTAL | ---  | C1    |

##### CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |      |      |     |
|------------|----|------|------|-----|
| TOP CH.    | LL | =    | 32.5 | PSF |
|            | DL | =    | 6.0  | PSF |
| BOT. CH.   | LL | =    | 0.0  | PSF |
|            | DL | =    | 7.4  | PSF |
| TOTAL LOAD | =  | 45.9 | PSF  |     |

##### SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.00")  
ALLOWABLE DEFL.(TL)= L/360 (0.20")  
CALCULATED VERT. DEFL.(TL)= L/999 (0.05")

CSI: TC=0.15/1.00 (A-B:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR   | SECTION  |
|-------|-----------|---------|----------|
|       | (PSI)     | (PLI)   | (PLI)    |
| MT20  | MAX 650   | MIN 371 | MAX 1747 |
|       | MIN 371   | MIN 788 | MIN 1987 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (B) (INPUT = 0.90)

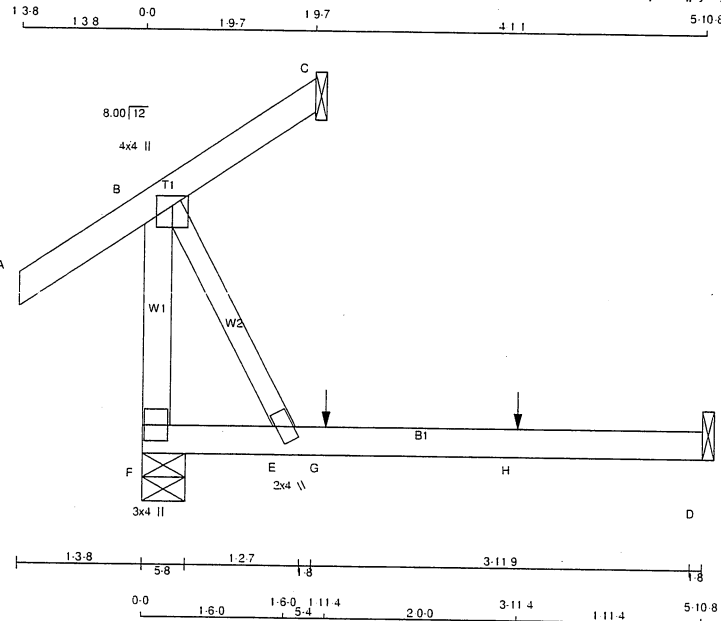
JSI METAL= 0.06 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2028239

|                                 |            |          |     |                    |          |
|---------------------------------|------------|----------|-----|--------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.          | DRWG NO. |
| 415008                          | C5S        | 1        | 1   | BAYVIEW WELLINGTON |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.        |          |

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Scale = 1:22.9

#### LUMBER

|                      |      |        |        |     |  |
|----------------------|------|--------|--------|-----|--|
| N. L. G. A. RULES    |      |        |        |     |  |
| CHORDS               | SIZE | LUMBER | DESCR. | SPF |  |
| F - B                | 2x4  | DRY    | No.2   | SPF |  |
| A - C                | 2x4  | DRY    | No.2   | SPF |  |
| F - D                | 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  | TMVW+p | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| E  | BMW+w  | MT20   | 2.0 | 4.0 |      |      |
| F  | BMW1+p | MT20   | 3.0 | 4.0 |      |      |

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| F  | 368                     | 0    | 368                             | 0    | 5-8             | 5-8            |
| C  | 41                      | 0    | 41                              | 0    | 1-8             | 1-8            |
| D  | 54                      | 0    | 61                              | 0    | 1-8             | 1-8            |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

| JT | 1ST CASE COMBINED | MAX. MIN. COMPONENT REACTIONS |      |            |      |      |      |
|----|-------------------|-------------------------------|------|------------|------|------|------|
|    |                   | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
| F  | 258               | 181                           | 0    | 0          | 0    | 77   | 0    |
| C  | 28                | 24                            | 0    | 0          | 0    | 4    | 0    |
| D  | 43                | 0                             | 0    | 0          | 0    | 43   | 0    |

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

#### 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)

| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) |        |          | MAX. UNBRACED LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) |    |          |
|-------|---------------------------|---------------------------|--------|----------|----------------------------|-------|---------------------------|----|----------|
|       |                           | FROM                      | TO     | CSI (LC) |                            |       | FROM                      | TO | CSI (LC) |
| F-B   | -314                      | 0                         | 0      | 0.05 (1) | 7.81                       | B-E   | 0                         | 0  | 0.00 (1) |
| A-B   | 0                         | 43                        | -112.4 | -112.4   | 0.15 (1)                   | 10.00 |                           |    |          |
| B-C   | -33                       | 0                         | -112.4 | -112.4   | 0.14 (1)                   | 6.25  |                           |    |          |
| F-E   | 0                         | 0                         | -18.5  | -18.5    | 0.14 (4)                   | 10.00 |                           |    |          |
| E-G   | 0                         | 0                         | -18.5  | -18.5    | 0.19 (4)                   | 10.00 |                           |    |          |
| G-H   | 0                         | 0                         | -18.5  | -18.5    | 0.19 (4)                   | 10.00 |                           |    |          |
| H-D   | 0                         | 0                         | -18.5  | -18.5    | 0.19 (4)                   | 10.00 |                           |    |          |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1 | MAX. | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-----|------|------|------|------|-------|------|-------|
| G  | 1-11.4 | 1   | 1    | ---  | BACK | VERT | TOTAL | ---  | C1    |
| H  | 3-11.4 | 1   | 1    | ---  | BACK | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 32.5 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 45.9 | PSF |

SPACING = 24.0 IN. C/C

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

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")  
ALLOWABLE DEFL. (TL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.05")

CSI: TC=0.15/1.00 (A-B:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE | GRIP (DRY) | SHEAR | SECTION |
|-------|------------|-------|---------|
| (PSI) | (PLI)      | (PLI) | (PLI)   |
| MT20  | 650        | 371   | 1747    |
|       | 788        | 1987  | 1873    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

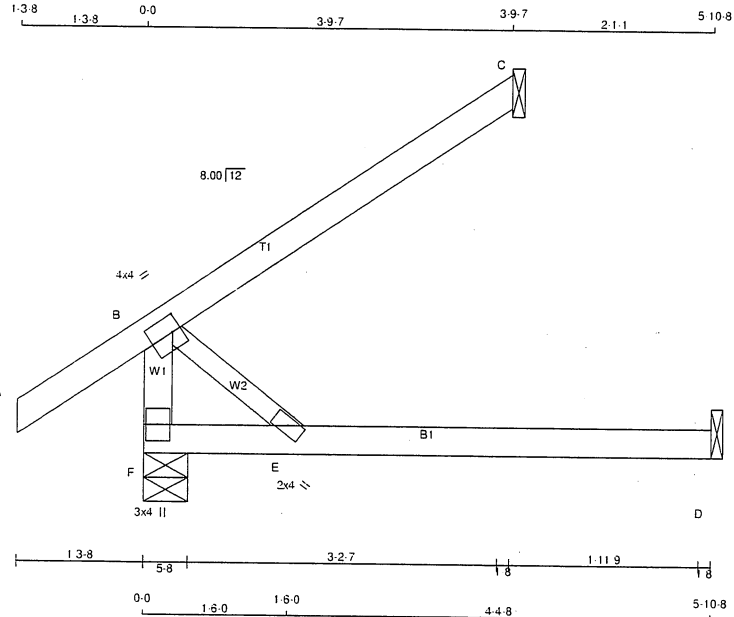
JSI GRIP = 0.21 (B) (INPUT = 0.90)  
JSI METAL = 0.06 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2028240

|                                 |                         |                      |                 |                                        |          |
|---------------------------------|-------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b>       | TRUSS NAME<br><b>C6</b> | QUANTITY<br><b>6</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 | TRUSS DESC.                            |          |

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Scale = 1:22.7

TOTAL WEIGHT = 6 X 16 = 96 lb

#### LUMBER

| N. L. G. A. RULES    | CHORDS | SIZE | LUMBER | DESCR. |
|----------------------|--------|------|--------|--------|
| F - B                | 2x4    | DRY  | No.2   | SPF    |
| A - C                | 2x4    | DRY  | No.2   | SPF    |
| F - D                | 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  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.00 |
| E  | BMW+w  | MT20   | 2.0 | 4.0 |      |      |
| F  | BMW1+p | MT20   | 3.0 | 4.0 |      |      |

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | RECORD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|------------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                  |
| F  | 422                     | 0    | 422                             | 0    | 5-8             | 5-8              |
| C  | 213                     | 0    | 213                             | 0    | 1-8             | 1-8              |
| D  | 54                      | 0    | 61                              | 0    | 1-8             | 1-8              |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED | MAX. MIN. COMPONENT REACTIONS |      |            |      |      |      |
|----|--------------------|-------------------------------|------|------------|------|------|------|
|    |                    | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
| F  | 295                | 212                           | 0    | 0          | 0    | 83   | 0    |
| C  | 146                | 123                           | 0    | 0          | 0    | 23   | 0    |
| D  | 43                 | 0                             | 0    | 0          | 0    | 43   | 0    |

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

#### 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.  | MAX. FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1    | MAX CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FORCE (LBS) | FACTORED MAX CSI (LC) |  |
| FR-TO  |                  | FROM                      | TO     |              |                    | FR-TO |                  |                       |  |
| F-B    | -367             | 0                         | 0      | 0.04 (1)     | 7.81               | B-E   | 0                | 0.00 (1)              |  |
| A-B    | 0                | 43                        | -112.4 | 0.15 (1)     | 10.00              |       |                  |                       |  |
| B-C    | 0                | 0                         | -112.4 | 0.27 (1)     | 10.00              |       |                  |                       |  |
| F-E    | 0                | 0                         | -18.5  | 0.14 (4)     | 10.00              |       |                  |                       |  |
| E-D    | 0                | 0                         | -18.5  | 0.19 (4)     | 10.00              |       |                  |                       |  |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |      |      |     |
|------------|----|------|------|-----|
| TOP CH.    | LL | =    | 32.5 | PSF |
|            | DL | =    | 6.0  | PSF |
| BOT CH.    | LL | =    | 0.0  | PSF |
|            | DL | =    | 7.4  | PSF |
| TOTAL LOAD | =  | 45.9 | -    | PSF |

##### SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.00")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.05")

CSI: TC=0.27/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.14/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

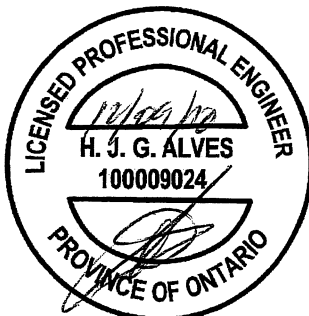
#### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) |         |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 650       | 371   | 1747    |
|       |           | 788   | 1987    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

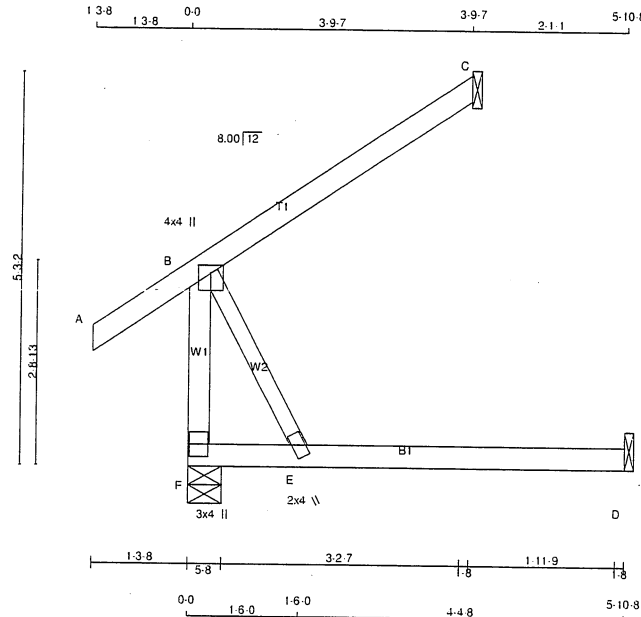
JSI GRIP= 0.23 (B) (INPUT = 0.90)  
JSI METAL= 0.07 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2028241

|                                 |                          |                      |                 |                                        |          |
|---------------------------------|--------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b>       | TRUSS NAME<br><b>C6S</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                        |          |

Version 8.330 S May 6 2020 Mitek Industries, Inc. Wed Dec 9 16:36:18 2020 Page 1  
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Scale = 1:29.5

#### LUMBER

|                      |      |        |        |     |  |
|----------------------|------|--------|--------|-----|--|
| N. L. G. A. RULES    |      |        |        |     |  |
| CHORDS               | SIZE | LUMBER | DESCR. |     |  |
| F - B                | 2x4  | DRY    | No.2   | SPF |  |
| A - C                | 2x4  | DRY    | No.2   | SPF |  |
| F - D                | 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  | TMVW+p | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| E  | BMW+w  | MT20   | 2.0 | 4.0 |      |      |
| F  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

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

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| F  | 422                     | 0                               | 422       | 0        |
| C  | 213                     | 0                               | 213       | 0        |
| D  | 54                      | 0                               | 61        | 0        |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | SNOW | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|-----------|------|------|------------|------|------|------|
| F  | 295       | 212  | 0    | 0          | 0    | 83   | 0    |
| C  | 146       | 123  | 0    | 0          | 0    | 23   | 0    |
| D  | 43        | 0    | 0    | 0          | 0    | 43   | 0    |

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

#### 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.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |  |
| FR-TO  |                           | FROM TO                   |                        | FR-TO |                           |                        |  |
| F-B    | -367                      | 0.0                       | 0.05 (1)               | B-E   | 0                         | 0.00 (1)               |  |
| A-B    | 0                         | -112.4                    | 0.15 (1)               |       |                           |                        |  |
| B-C    | 0                         | -112.4                    | 0.27 (1)               |       |                           |                        |  |
| F-E    | 0                         | -18.5                     | 0.14 (4)               |       |                           |                        |  |
| E-D    | 0                         | -18.5                     | 0.19 (4)               |       |                           |                        |  |

TOTAL WEIGHT = 19 lb

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 32.5 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 45.9 PSF

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55% OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.00")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.05")

CSI: TC=0.27/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.14/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

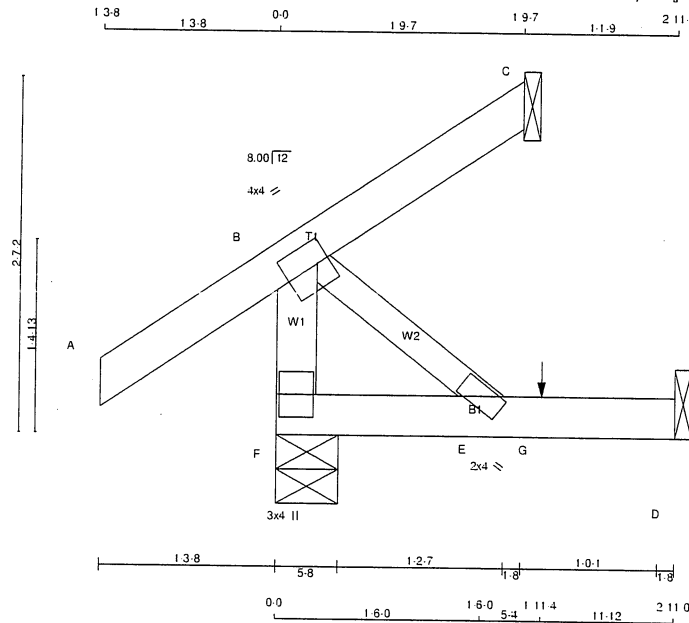
JSI GRIP = 0.24 (B) (INPUT = 0.90)  
JSI METAL = 0.07 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2028242

|                                 |                         |                      |                 |                                        |          |
|---------------------------------|-------------------------|----------------------|-----------------|----------------------------------------|----------|
| JOB NAME<br><b>415008</b>       | TRUSS NAME<br><b>C7</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>BAYVIEW WELLINGTON</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 | TRUSS DESC.                            |          |

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Scale: 3/4"=1'

#### LUMBER

| N. L. G. A. RULES    | CHORDS | SIZE | LUMBER | DESCR. |
|----------------------|--------|------|--------|--------|
| F - B                | 2x4    | DRY  | No.2   | SPF    |
| A - C                | 2x4    | DRY  | No.2   | SPF    |
| F - D                | 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  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.00 |
| E  | BMW+w  | MT20   | 2.0 | 4.0 |      |      |
| F  | BMW1+p | MT20   | 3.0 | 4.0 |      |      |

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| F  | 341                     | 0    | 341                             | 0    | 5-8             | 5-8            |
| C  | 41                      | 0    | 41                              | 0    | 1-8             | 1-8            |
| D  | 27                      | 0    | 30                              | 0    | 1-8             | 1-8            |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

#### UNFACTORED REACTIONS

| 1ST CASE |          | MAX. MIN. COMPONENT REACTIONS |      |           |      |      |      |
|----------|----------|-------------------------------|------|-----------|------|------|------|
| JT       | COMBINED | SNOW                          | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| F        | 237      | 181                           | 0    | 0         | 0    | 55   | 0    |
| C        | 28       | 24                            | -34  | 0         | 0    | 4    | 0    |
| D        | 22       | 0                             | 0    | 0         | 0    | 22   | 0    |

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

#### 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: (5)

| CHORDS |                           |    | FACTORED         |        |              | WEBS               |             |                           |              |
|--------|---------------------------|----|------------------|--------|--------------|--------------------|-------------|---------------------------|--------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) |    | VERT. LOAD (PLF) | LC1    | MAX CSI (LC) | MAX. UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
| FR-TO  |                           |    | FROM             | TO     |              |                    |             |                           |              |
| F-B    | -314                      | 0  | 0.0              | 0.0    | 0.03 (1)     | 7.81               |             |                           |              |
| A-B    | 0                         | 43 | -112.4           | -112.4 | 0.16 (5)     | 10.00              | B-E         | 0                         | 0.00 (1)     |
| B-C    | -33                       | 0  | -112.4           | -112.4 | 0.15 (5)     | 6.25               |             |                           |              |
| F-E    | 0                         | 0  | -18.5            | -18.5  | 0.05 (4)     | 10.00              |             |                           |              |
| E-G    | 0                         | 0  | -18.5            | -18.5  | 0.05 (4)     | 10.00              |             |                           |              |
| G-D    | 0                         | 0  | -18.5            | -18.5  | 0.05 (4)     | 10.00              |             |                           |              |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1 | MAX. | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-----|------|------|------|------|-------|------|-------|
| G  | 1-11.4 | 1   | 1    | ---  | BACK | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 32.5 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 45.9 | PSF |

SPACING = 24.0 IN. C/C

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

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 43.9 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 32.5 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.19")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.00")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.19")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.00")

CSI: TC=0.16/1.00 (A-B-5), BC=0.05/1.00 (E-F-4), WB=0.00/1.00 (B-E-1), SSI=0.10/1.00 (A-B-5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) |         |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 650       | 371   | 1747    |
|       | 788       | 1987  | 1873    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.19 (B) (INPUT = 0.90)

JSI METAL = 0.06 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2028243



## Alves Engineering Services Inc.

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

### RESPONSABILITIES

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

### SPECIFICATIONS

1-Truss components sealed by Alves Engineering Services Inc. conform to the relevant sections of the current Building Code of Ontario and Canada (part 4 or part 9) or the current Canadian code for Farm Buildings in accordance with the application specified on the sealed truss component drawing. All truss component design procedures must conform to the current design standard issued by the truss plate institute of Canada (TPIC). All lumber and nailing stresses to conform to the current CSA wood design standard identified on the current Building Code and TPIC.

- 2- Lumber is to be the sizes and grade specified on the truss drawing.
- 3- Moist content of lumber is not to exceed 19% in service unless otherwise specified.
- 4- Plates shall be applied to both faces of the each truss joint and shall be positioned as shown on the truss drawings
- 5- Lumber used on manufacture of trusses is not to be treated with chemicals unless otherwise specified on the truss drawings.
- 6- The top chord is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals specified on the truss drawing but not exceeding 24" c/c for (part 9) and not exceeding 48" for (part 4 or farm design)

7- When rigid ceiling is not attached directly to the bottom chord, lateral bracing is required and it should not exceed more than 3m or 10' intervals.

8-Refer to Mitek sheet MII7473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

*T-1300213*

Feb 09, 2018

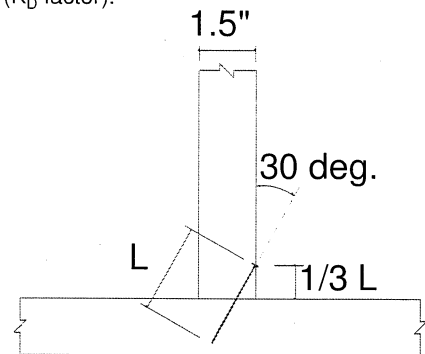
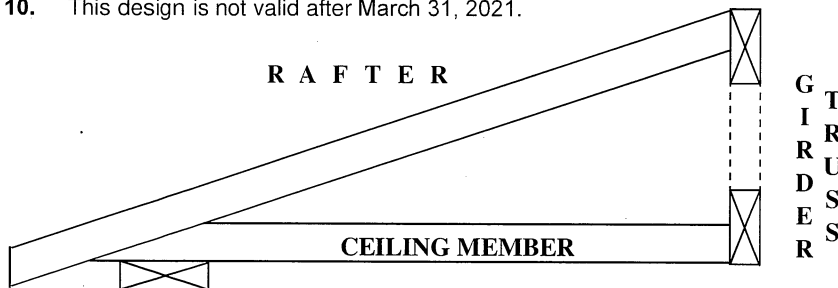
# BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

| NAIL TYPE        | LENGTH<br>(IN) | DIAMETER<br>(IN) | NAIL LATERAL CAPACITY (LB) |        |
|------------------|----------------|------------------|----------------------------|--------|
|                  |                |                  | S-P-F                      | D. FIR |
| COMMON<br>WIRE   | 3.00           | 0.144            | 132                        | 147    |
|                  | 3.25           | 0.144            | 132                        | 147    |
|                  | 3.50           | 0.160            | 159                        | 177    |
| COMMON<br>SPIRAL | 3.00           | 0.122            | 97                         | 108    |
|                  | 3.25           | 0.122            | 97                         | 108    |
|                  | 3.50           | 0.152            | 145                        | 162    |

## NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor  $J_A$  in CSA O86-14, section 12.9.4.1.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities:  $G = 0.42$  (SPF),  $G = 0.49$  (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to **wind** the nail lateral capacity in this table may be multiplied by 1.15 ( $K_D$  factor).
8. Lumber must be dry ( < 19% moisture content ) at the time of nail installation.
9. Nail values in this table comply with CSA O86-14, section 12.9.4
10. This design is not valid after March 31, 2021.



TOE-NAIL INSTALLATION

|                |                             |               |                       |               |
|----------------|-----------------------------|---------------|-----------------------|---------------|
| Nail type      | Common wire                 | Common spiral | Common wire           | Common spiral |
| Nail dia. (in) | 0.160                       | 0.152         | 0.144                 | 0.122         |
|                | ( 3.5" nail )               |               | ( 3" and 3.25" nail ) |               |
| LUMBER SIZE    | MAXIMUM NUMBER OF TOE-NAILS |               |                       |               |
| 2X4 SPF        | 2                           | 2             | 3                     | 3             |
| 2X4 D. Fir     | 2                           | 2             | 2                     | 2             |
|                |                             |               |                       |               |
| 2X6 SPF        | 4                           | 4             | 4                     | 5             |
| 2X6 D. Fir     | 3                           | 3             | 3                     | 4             |

**MiTek**®

MiTek Canada Inc  
100 Industrial Rd.  
Bradford, Ontario L3Z 3G7

December 2, 2019

PEO  
Certificate No. 10889485



# BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

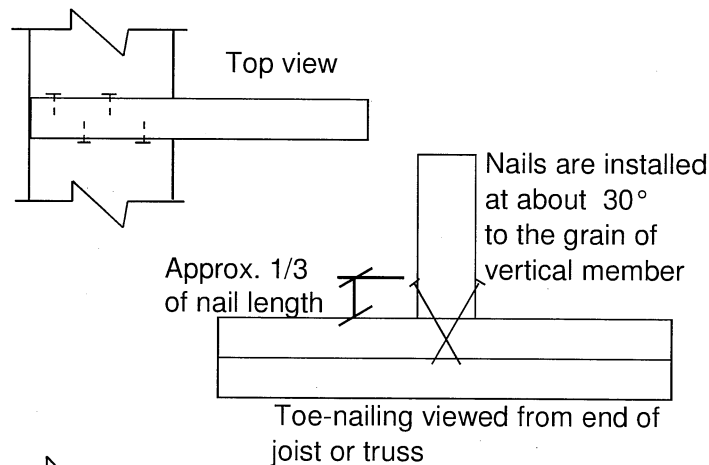
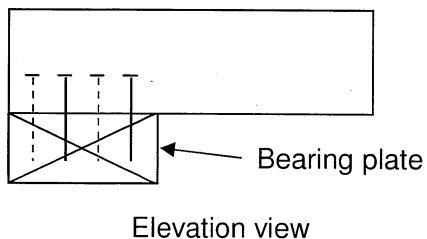
| NAIL TYPE        | LENGTH<br>(IN) | DIAMETER<br>(IN) | NAIL WITHDRAWAL CAPACITY (LB) |        |
|------------------|----------------|------------------|-------------------------------|--------|
|                  |                |                  | S-P-F                         | D. FIR |
| COMMON<br>WIRE   | 3.00           | 0.144            | 30                            | 42     |
|                  | 3.25           | 0.144            | 32                            | 45     |
|                  | 3.50           | 0.160            | 38                            | 52     |
| COMMON<br>SPIRAL | 3.00           | 0.122            | 26                            | 36     |
|                  | 3.25           | 0.122            | 28                            | 40     |
|                  | 3.50           | 0.152            | 36                            | 50     |

**Note:** If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

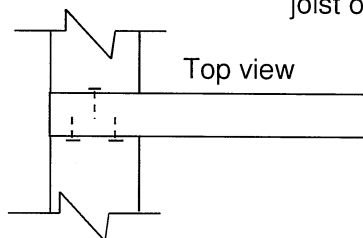
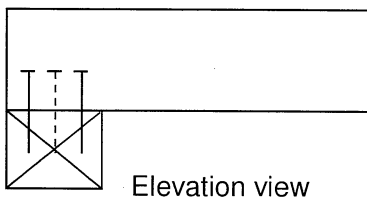
## NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to **wind** or **earthquake** load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor  $J_A$  in CSA O86-14, section 12.9.5.2.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities:  $G = 0.42$ (SPF),  $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry ( < 19% moisture content ) at the time of nail installation.
8. Nail values in this table comply with CSA O86-14, section 12.9.5
9. This design is not valid after March 31, 2021.

## Toe-nailing on 2x6 Bearing Plate



## Toe-nailing on 2x4 Bearing Plate



**MiTek**® MiTek Canada Inc  
100 Industrial Rd.  
Bradford, Ontario L3Z 3G7

PEO  
Certificate No. 10889485



December 2, 2019

# HUS/LJS – Double Shear Joist Hangers



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

**Material:** See table

**Finish:** G90 galvanized

**Design:**

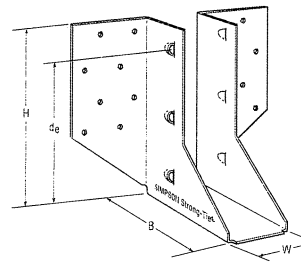
- Factored resistances are in accordance with CSA O86 -14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

**Installation:**

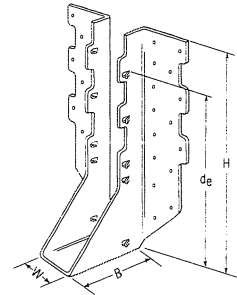
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

**Options:**

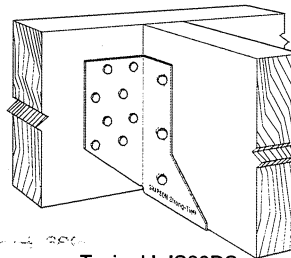
- See current catalogue for options



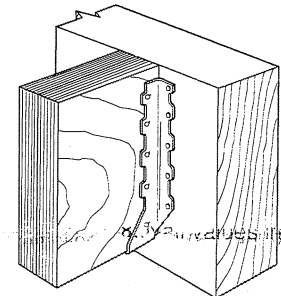
LJS26DS



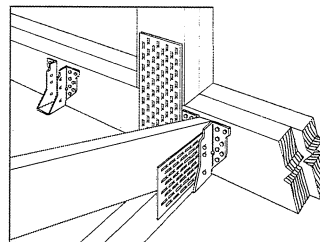
HUS210  
(HUS26, HUS28, similar)



Typical LJS26DS  
Installation



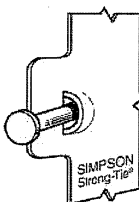
Typical HUS  
Installation



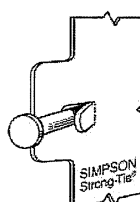
Typical HUS Installation  
(Truss Designer to provide fastener  
quantity for connecting multiple  
members together)

| Model No.  | Ga. | Dimensions (in.) |    |    |                             | Fasteners |          | Factored Resistance (lb.)        |                                  |                                  |                                  |
|------------|-----|------------------|----|----|-----------------------------|-----------|----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|            |     | W                | H  | B  | d <sub>e</sub> <sup>1</sup> | Face      | Joist    | D.Fir-L                          |                                  | S-P-F                            |                                  |
|            |     |                  |    |    |                             |           |          | Uplift<br>(K <sub>0</sub> =1.15) | Normal<br>(K <sub>0</sub> =1.00) | Uplift<br>(K <sub>0</sub> =1.15) | Normal<br>(K <sub>0</sub> =1.00) |
| LJS26DS    | 18  | 1⅞               | 5  | 3½ | 4⅝                          | (16) 16d  | (6) 16d  | 2055                             | 4265                             | 1460                             | 4115                             |
| HUS26      | 16  | 1⅞               | 5⅝ | 3  | 3⅞                          | (14) 16d  | (6) 16d  | 2705                             | 4940                             | 2065                             | 3875                             |
| HUS28      | 16  | 1⅞               | 7⅝ | 3  | 6⅝                          | (22) 16d  | (8) 16d  | 3605                             | 5365                             | 2675                             | 4345                             |
| HUS210     | 16  | 1⅞               | 9⅝ | 3  | 7⅝                          | (30) 16d  | (10) 16d | 4505                             | 5795                             | 4010                             | 4740                             |
| HUS1.81/10 | 16  | 1⅞               | 9  | 3  | 8                           | (30) 16d  | (10) 16d | 4505                             | 6450                             | 4010                             | 5200                             |

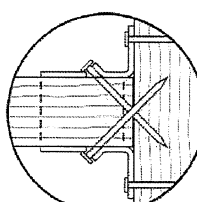
1. d<sub>e</sub> is the distance from the seat of the hanger to the highest joist nail.



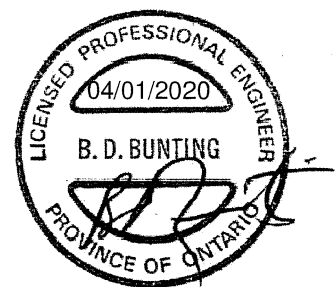
Dome Double  
Shear Nailing  
prevents tabs  
breaking off  
(available on  
some models).  
U.S. Patent  
5,603,580



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, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see [strongtie.com](http://strongtie.com).

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T-SPECHUS20 3/20 exp. 6/22

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# 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:

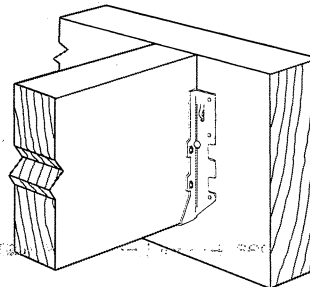
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

## Installation:

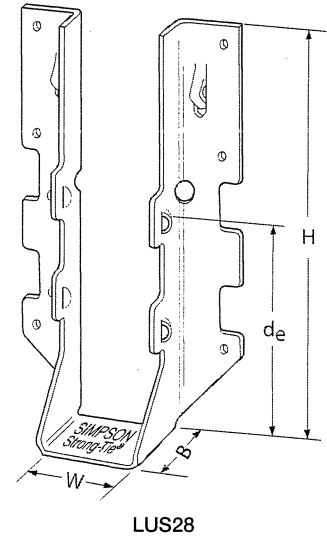
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3½" long common wire, 10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

## Options:

- These hangers cannot be modified

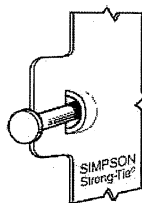


Typical LUS Installation



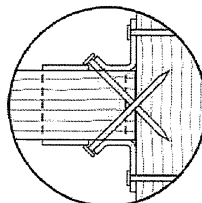
| Model No. | Ga. | Dimensions (in.) |    |    |                             | Fasteners |         | Factored Resistance (lb.)        |                                  |                                  |                                  |
|-----------|-----|------------------|----|----|-----------------------------|-----------|---------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |     | W                | H  | B  | d <sub>e</sub> <sup>1</sup> | Face      | Joist   | D.Fir-L                          |                                  | S-P-F                            |                                  |
|           |     |                  |    |    |                             |           |         | Uplift<br>(K <sub>0</sub> =1.15) | Normal<br>(K <sub>0</sub> =1.00) | Uplift<br>(K <sub>0</sub> =1.15) | Normal<br>(K <sub>0</sub> =1.00) |
| LUS24     | 18  | 1⅞               | 3⅞ | 1¾ | 1⅝                          | (4) 10d   | (2) 10d | 710                              | 1630                             | 645                              | 1155                             |
| LUS24-2   | 18  | 3⅞               | 3⅞ | 2  | 1⅝                          | (4) 16d   | (2) 16d | 835                              | 2020                             | 590                              | 1435                             |
| LUS26     | 18  | 1⅞               | 4¾ | 1¾ | 3⅞                          | (4) 10d   | (4) 10d | 1420                             | 2170                             | 1290                             | 1630                             |
| LUS26-2   | 18  | 3⅞               | 4¾ | 2  | 4                           | (4) 16d   | (4) 16d | 1720                             | 2595                             | 1545                             | 1920                             |
| LUS26-3   | 18  | 4⅞               | 4⅞ | 2  | 3¼                          | (4) 16d   | (4) 16d | 1720                             | 2595                             | 1545                             | 2340                             |
| LUS28     | 18  | 1⅞               | 6⅞ | 1¾ | 3¾                          | (6) 10d   | (6) 10d | 1420                             | 2520                             | 1290                             | 1790                             |
| LUS28-2   | 18  | 3⅞               | 7  | 2  | 4                           | (6) 16d   | (4) 16d | 1720                             | 3325                             | 1545                             | 2575                             |
| LUS28-3   | 18  | 4⅞               | 6¼ | 2  | 3¼                          | (6) 16d   | (4) 16d | 1720                             | 3325                             | 1545                             | 2375                             |
| LUS210    | 18  | 1⅞               | 7⅞ | 1¾ | 3⅞                          | (8) 10d   | (4) 10d | 1420                             | 2785                             | 1290                             | 2210                             |
| LUS210-2  | 18  | 3⅞               | 9  | 2  | 6                           | (8) 16d   | (6) 16d | 2580                             | 4500                             | 2320                             | 3195                             |
| LUS210-3  | 18  | 4⅞               | 8⅞ | 2  | 5¼                          | (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.



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

U.S. Patent  
5,603,580



Double Shear Nailing  
Top View.



LIMIT  
STATES  
DESIGN

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see [strongtie.com](http://strongtie.com).

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T-SPEC LUS20 3/20 exp. 6/22

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# 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:**

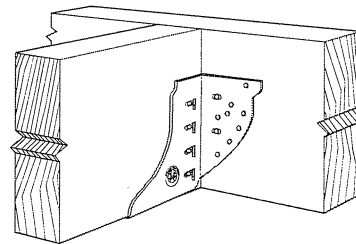
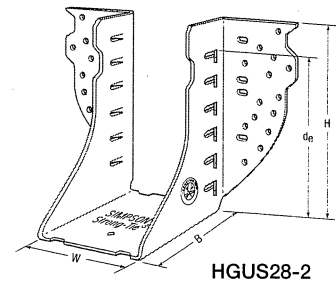
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%.  
No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

**Installation:**

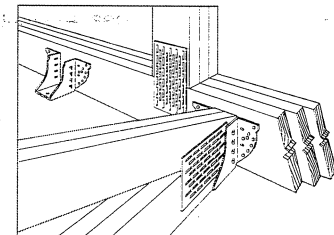
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

**Options:**

- See current catalogue for options



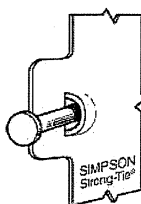
Typical HGUS Installation



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

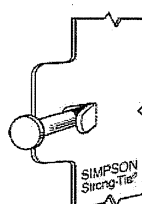
| Model No. | Ga. | Dimensions (in.) |        |   |                             | Fasteners |          | Factored Resistance (lb.)        |                                  |                                  |                                  |
|-----------|-----|------------------|--------|---|-----------------------------|-----------|----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |     | W                | H      | B | d <sub>e</sub> <sup>1</sup> | Face      | Joist    | D.Fir-L                          |                                  | S-P-F                            |                                  |
|           |     |                  |        |   |                             |           |          | Uplift<br>(K <sub>b</sub> =1.15) | Normal<br>(K <sub>b</sub> =1.00) | Uplift<br>(K <sub>b</sub> =1.15) | Normal<br>(K <sub>b</sub> =1.00) |
| HGUS26    | 12  | 1 5/8            | 5 3/8  | 5 | 4 3/32                      | (20) 16d  | (8) 16d  | 2685                             | 6625                             | 2685                             | 5700                             |
| HGUS26-2  | 12  | 3 3/8            | 5 1/8  | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS26-3  | 12  | 4 15/16          | 5 1/2  | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS26-4  | 12  | 6 3/8            | 5 1/8  | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS28    | 12  | 1 5/8            | 7 1/8  | 5 | 6 1/8                       | (36) 16d  | (12) 16d | 3310                             | 7675                             | 3100                             | 6900                             |
| HGUS28-2  | 12  | 3 3/8            | 7 3/8  | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-3  | 12  | 4 15/16          | 7 1/4  | 4 | 6 3/8                       | (36) 16d  | (12) 16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-4  | 12  | 6 3/8            | 7 3/8  | 4 | 6 3/8                       | (36) 16d  | (12) 16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS210   | 12  | 1 5/8            | 9 1/8  | 5 | 7 7/8                       | (46) 16d  | (16) 16d | 3535                             | 11070                            | 2510                             | 8090                             |
| HGUS210-2 | 12  | 3 3/8            | 9 3/8  | 4 | 8 1/8                       | (46) 16d  | (16) 16d | 6840                             | 14015                            | 4855                             | 10270                            |
| HGUS210-3 | 12  | 4 15/16          | 9 1/4  | 4 | 8 3/8                       | (46) 16d  | (16) 16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS210-4 | 12  | 6 3/8            | 9 3/8  | 4 | 8 1/8                       | (46) 16d  | (16) 16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS212-4 | 12  | 6 3/8            | 10 3/8 | 4 | 10 1/8                      | (56) 16d  | (20) 16d | 7640                             | 14995                            | 5425                             | 10645                            |
| HGUS214-4 | 12  | 6 3/8            | 12 3/8 | 4 | 11 1/8                      | (66) 16d  | (22) 16d | 10130                            | 16400                            | 7195                             | 11645                            |

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

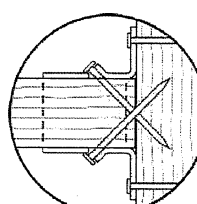


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

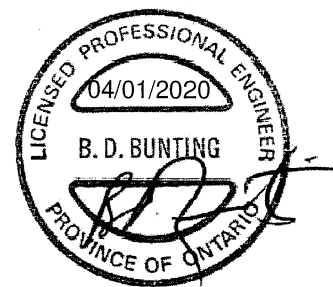
U.S. Patent 5,603,580



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, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see [strongtie.com](http://strongtie.com).

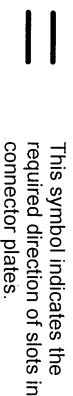
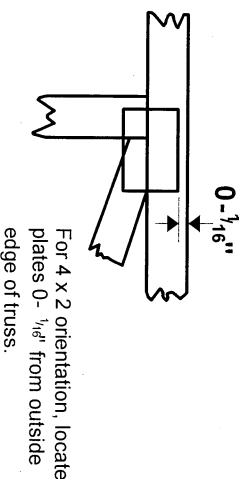
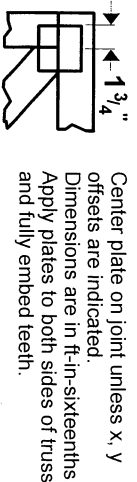
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T-SPECHGUS20 3/20 exp. 6/22

(800) 999-5099  
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# Symbols

## PLATE LOCATION AND ORIENTATION



\* Plate location details available in **MITek 2020** software or upon request.

## PLATE SIZE

**4 X 4**

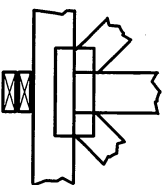
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

## BEARING



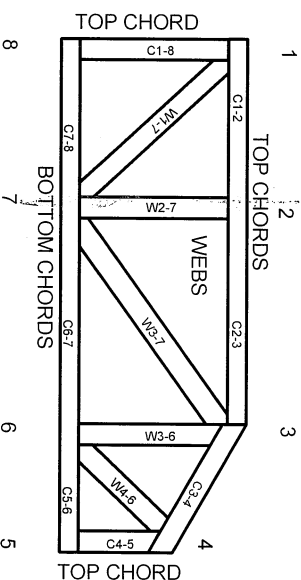
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988  
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MIL-7473 rev. 10/03/2015

# 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 "for I" bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.