

A COMPLETE SET OF REVIEWED DRAWINGS & SPECIFICATIONS MUST BE KEPT ON SITE AT ALL TIME DURING CONSTRUCTION AS PER O.B.C.

CERTIFIED MODEL  
**PRE-APPROVED**  
FOR PERMIT APPLICATION AS PER THE  
ONTARIO BUILDING CODE  
TOWN OF CALEDON BUILDING DIVISION  
REVIEWED BY *M. T. [Signature]*  
DATE *July 29/2019*  
FILE # *Horizon 12*

HORIZON 12  
TH 96-1 / 1  
401795

HORIZON 2  
TH 96-2 / 1  
401796

HORIZON 2  
TH 96-3 / 1  
401797

HORIZON 1  
TH 96-4 / 1  
401798

HORIZON 3E  
TH 96-5 / 1  
401799

25-07-00

22-03-12

22-03-12

22-03-12

20-10-00

11" PLATE DIFF.  
PLEASE CONFIRM

6/12

ASPHALT SHINGLES  
12" FINISHED OH.  
R.T.M.C.  
2X6 EXTERIOR WALLS  
2X6 FASCIA BOARD

HARDWARE:  
LUS24 - (O)  
LUS26-2 - (VV)  
LJS26DS - (V)  
HGUS26-2 - (XX)  
HGUS28-3 - (SSS)

DENOTES  
CONV.  
FRAMING

DESIGN CONFORMS  
WITH O.B.C.2012 PART 9  
DESIGN LOADS:  
SNOW LOAD 29.02 PSF  
TC DEAD 6 PSF  
BC LIVE 10.5 PSF  
BC DEAD 7 PSF

BM1 - BM6 = 2-2X10

**APPLICANT COPY**

ALL CONV. FRAMING TO CONFORM WITH PART 9 OF O.B.C.2012  
ROOF RAFTERS THAT CROSS MEET OVER TRUSSES TO BE 2X4  
SPF @ 24" O.C. WITH A 2X4 VERT. POST TO THE TRUSS  
UNDER NEATH AT EACH CROSS PT. VERT. POST LONGER THAN 6"  
TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN  
END PT. & BETWEEN ROWS OF BRACING DOES NOT EXCEED 6"

**RECEIVED**  
JUN 13 2019  
TOWN OF CALEDON  
BUILDING SECTION  
FILE NO. *22-3-228*

**PACKAGE  
2 OF 2**

THIS STRUCTURE MUST BE  
CONSTRUCTED TO MEET OR  
EXCEED THE PROVISIONS OF  
THE ONTARIO BUILDING CODE



*1 HR PRR (FIRE RESISTANCE)  
RATING*

*(2019-102162)*

Job Track: 50033  
Plan Log: 200648  
Layout ID: 401794

Builder / Location:  
**GREEN PARK HOMES / CALEDON**  
Project: **LAMBERT LANE PH.2**  
Date: 3/12/2019 Sales: Mario DiCano Designer: AC

Model / Elevation:  
**BLOCK 96 / TH96-1 - TH96-5**

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



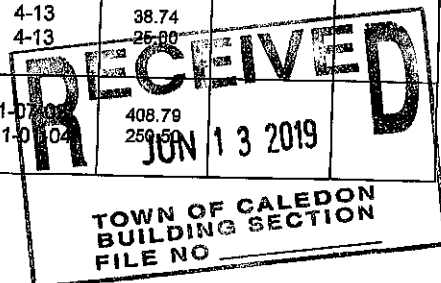
# DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: GREEN PARK HOMES  
 Project: LAMBERT LANE PH.2  
 Location: CALEDON  
 Model: BLOCK 96  
 Lot #:  
 Elevation:

Job Track: 50033  
 PlanLog: 200648  
 Layout ID: 401796  
 Ref #  
 Page: 1 of 2  
 Date: 03/12/2019  
 Designer: Andrew Conway  
 Sales Rep: Mario DiCano

## 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 |
|---------|------------|---------------------------------------------|-------|----------|----------|----------------|---------------------------|------------------------------|------------------|---------------------|--------------------|
|         | 1<br>2-ply | T18<br>Half Hip<br>Girder                   | 8/12  | 21-10-12 | 4-01-04  | 2 x 4<br>2 x 6 |                           | 1-07-02<br>4-01-04           | 203.49<br>126.67 |                     |                    |
|         | 1<br>2-ply | T18Z<br>Half Hip<br>Girder                  | 8/12  | 21-10-12 | 4-01-04  | 2 x 4<br>2 x 6 |                           | 1-07-02<br>4-01-04           | 203.49<br>126.67 |                     |                    |
|         | 2          | T19<br>Half Hip                             | 8/12  | 21-10-12 | 5-01-04  | 2 x 4          |                           | 1-07-02<br>5-01-04           | 179.88<br>112.67 |                     |                    |
|         | 2          | T20<br>Half Hip                             | 8/12  | 21-10-12 | 6-01-04  | 2 x 4          |                           | 1-07-02<br>6-01-04           | 196.04<br>125.33 |                     |                    |
|         | 2          | T21<br>Half Hip                             | 8/12  | 21-10-12 | 7-01-04  | 2 x 4          |                           | 1-07-02<br>7-01-04           | 194.51<br>123.67 |                     |                    |
|         | 2          | T22<br>Half Hip                             | 8/12  | 21-10-12 | 8-01-04  | 2 x 4          |                           | 1-07-02<br>8-01-04           | 205.03<br>129.00 |                     |                    |
|         | 2          | T23<br>Half Hip                             | 8/12  | 21-10-12 | 9-01-04  | 2 x 4          |                           | 1-07-02<br>9-01-04           | 218.07<br>134.33 |                     |                    |
|         | 2          | T24<br>Half Hip                             | 8/12  | 21-10-12 | 10-01-04 | 2 x 4          |                           | 1-07-02<br>10-01-04          | 241.13<br>151.33 |                     |                    |
|         | 1          | T25<br>Common                               | 8/12  | 16-03-00 | 6-09-13  | 2 x 4          | 1-03-08<br>1-03-08        | 1-04-13<br>1-04-13           | 72.46<br>45.67   |                     |                    |
|         | 1          | T25A<br>Common                              | 8/12  | 15-11-08 | 6-09-13  | 2 x 4          | 1-03-08                   | 1-04-13<br>1-04-13           | 70.01<br>44.50   |                     |                    |
|         | 2          | T25S<br>Roof Special<br>Structural<br>Gable | 8/12  | 16-03-00 | 6-09-13  | 2 x 4          | 1-03-08                   | 1-04-13<br>4-13              | 145.59<br>92.00  |                     |                    |
|         | 1          | T51<br>Common                               | 8/12  | 11-03-00 | 4-11-09  | 2 x 4          | 1-03-08<br>1-03-08        | 4-13<br>4-13                 | 38.09<br>23.33   |                     |                    |
|         | 1          | G51<br>GABLE                                | 8/12  | 11-03-00 | 4-11-09  | 2 x 4          | 1-03-08<br>1-03-08        | 4-13<br>4-13                 | 38.74<br>25.60   |                     |                    |
|         | 3          | T54<br>Half Hip                             | 8/12  | 21-10-12 | 11-01-04 | 2 x 4          |                           | 1-07-02<br>11-01-04          | 408.79<br>250.50 |                     |                    |



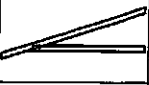
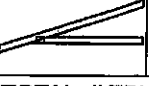
# DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER  
 Builder: GREEN PARK HOMES  
 Project: LAMBERT LANE PH.2  
 Location: CALEDON  
 Model: BLOCK 96  
 Lot #:  
 Elevation:

Job Track: 50033  
 PlanLog: 200648  
 Layout ID: 401796  
 Ref #  
 Page: 2 of 2  
 Date: 03/12/2019  
 Designer: Andrew Conway  
 Sales Rep: Mario DiCano

## 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 |
|----------------------------------------------------------------------------------|------------|------------------|-------|---------|---------|--------|---------------------------|------------------------------|------------------|---------------------|--------------------|
|  | 14         | J1<br>Jack-Open  | 6 /12 | 5-10-08 | 4-01-04 | 2 x 4  | 1-03-08                   | 1-02-00<br>4-01-04           | 235.12<br>149.33 |                     |                    |
|  | 4          | J54<br>Jack-Open | 4 /12 | 6-00-00 | 2-08-14 | 2 x 4  | 1-03-08                   | 3-15<br>2-00-15              | 62.87<br>37.33   |                     |                    |
|  | 3          | J55<br>Jack-Open | 4 /12 | 4-10-00 | 2-04-03 | 2 x 4  | 1-03-08                   | 3-15<br>1-08-04              | 38.96<br>24.00   |                     |                    |

TOTAL # TRUSS= 46

TOTAL BFT OF ALL TRUSSES= 1721.33

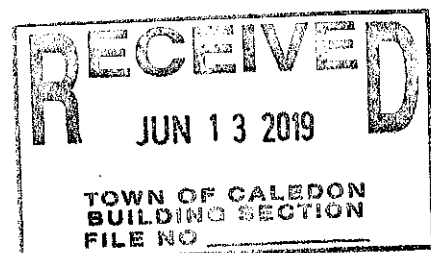
BFT.

TOTAL WEIGHT OF ALL TRSSES 2748.28 LBS

## HARDWARE

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 3   | Hardware | LJS28DS  |        |
| 1   | Hardware | HGUS28-2 |        |

TOTAL NUMBER OF ITEMS= 4





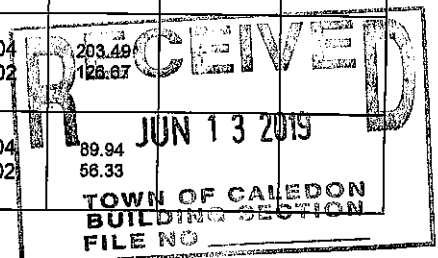
## DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: GREEN PARK HOMES  
 Project: LAMBERT LANE PH.2  
 Location: CALEDON  
 Model: BLOCK 96  
 Lot #:  
 Elevation:

Job Track: 50033  
 Plan Log: 200648  
 Layout ID: 401797  
 Ref #  
 Page: 1 of 2  
 Date: 03/12/2019  
 Designer: Andrew Conway  
 Sales Rep: Mario DiCano

### 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 |
|---------|------------|---------------------------------------------|-------|----------|----------|----------------|---------------------------|------------------------------|------------------|---------------------|--------------------|
|         | 1<br>2-ply | T11<br>Flat Girder                          | 0/12  | 21-10-12 | 4-01-04  | 2 x 4          |                           | 4-01-04<br>4-01-04           | 173.9<br>109.33  |                     |                    |
|         | 1          | T12<br>Flat                                 | 0/12  | 21-10-12 | 5-01-04  | 2 x 4          |                           | 5-01-04<br>5-01-04           | 87.9<br>54.50    |                     |                    |
|         | 1          | T13<br>Flat                                 | 0/12  | 21-10-12 | 6-01-04  | 2 x 4          |                           | 6-01-04<br>6-01-04           | 93.24<br>56.83   |                     |                    |
|         | 1          | T14<br>Flat                                 | 0/12  | 21-10-12 | 7-01-04  | 2 x 4          |                           | 7-01-04<br>7-01-04           | 98.74<br>60.87   |                     |                    |
|         | 2          | T15<br>Flat                                 | 0/12  | 21-10-12 | 8-01-04  | 2 x 4          |                           | 8-01-04<br>8-01-04           | 228.81<br>140.00 |                     |                    |
|         | 2          | T16<br>Flat                                 | 0/12  | 21-10-12 | 9-01-04  | 2 x 4          |                           | 9-01-04<br>9-01-04           | 241.79<br>148.67 |                     |                    |
|         | 3          | T17<br>Flat                                 | 0/12  | 21-10-12 | 10-01-04 | 2 x 4          |                           | 10-01-04<br>10-01-04         | 382.54<br>230.00 |                     |                    |
|         | 1          | T25<br>Common                               | 8/12  | 16-03-00 | 6-09-13  | 2 x 4          | 1-03-08<br>1-03-08        | 1-04-13<br>1-04-13           | 72.46<br>45.67   |                     |                    |
|         | 1          | T25A<br>Common                              | 8/12  | 15-11-08 | 6-09-13  | 2 x 4          | 1-03-08                   | 1-04-13<br>1-04-13           | 70.01<br>44.50   |                     |                    |
|         | 2          | T25S<br>Roof Special<br>Structural<br>Gable | 8/12  | 16-03-00 | 6-09-13  | 2 x 4          | 1-03-08                   | 1-04-13<br>4-13              | 145.59<br>92.00  |                     |                    |
|         | 1          | T51<br>Common                               | 8/12  | 11-03-00 | 4-11-09  | 2 x 4          | 1-03-08<br>1-03-08        | 4-13<br>4-13                 | 36.09<br>23.33   |                     |                    |
|         | 1          | G51<br>GABLE                                | 8/12  | 11-03-00 | 4-11-09  | 2 x 4          | 1-03-08<br>1-03-08        | 4-13<br>4-13                 | 38.74<br>25.00   |                     |                    |
|         | 1<br>2-ply | T55<br>Roof Special<br>Girder               | -8/12 | 21-10-12 | 4-01-04  | 2 x 4<br>2 x 6 |                           | 4-01-04<br>1-07-02           | 203.49<br>128.67 |                     |                    |
|         | 1          | T56<br>Roof Special                         | -8/12 | 21-10-12 | 5-01-04  | 2 x 4          |                           | 5-01-04<br>1-07-02           | 89.94<br>56.33   |                     |                    |





## DELIVERY SHIPLIST

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 Builder: GREEN PARK HOMES  
 Project: LAMBERT LANE PH.2  
 Location: CALEDON  
 Model: BLOCK 96  
 Lot #:  
 Elevation:

Job Track: 50033  
 PlanLog: 200648  
 Layout ID: 401797  
 Ref #  
 Page: 2 of 2  
 Date: 03/12/2019  
 Designer: Andrew Conway  
 Sales Rep: Mario DiCano

### 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 |
|---------|------------|---------------------|--------|----------|---------|--------|---------------------------|------------------------------|------------------|---------------------|--------------------|
|         | 1          | T57<br>Roof Special | -8 /12 | 21-10-12 | 6-01-04 | 2 x 4  |                           | 6-01-04<br>1-07-02           | 98.05<br>62.67   |                     |                    |
|         | 1          | T58<br>Roof Special | -8 /12 | 21-10-12 | 7-01-04 | 2 x 4  |                           | 7-01-04<br>1-07-02           | 97.25<br>61.83   |                     |                    |
|         | 1          | T59<br>Roof Special | -8 /12 | 21-10-12 | 8-01-04 | 2 x 4  |                           | 8-01-04<br>1-07-02           | 102.52<br>64.50  |                     |                    |
|         | 1          | T60<br>Roof Special | -8 /12 | 21-10-12 | 9-01-04 | 2 x 4  |                           | 9-01-04<br>1-07-02           | 108.04<br>67.17  |                     |                    |
|         | 14         | J1<br>Jack-Open     | 6 /12  | 5-10-08  | 4-01-04 | 2 x 4  | 1-03-08                   | 1-02-00<br>4-01-04           | 235.12<br>149.33 |                     |                    |
|         | 4          | J54<br>Jack-Open    | 4 /12  | 6-00-00  | 2-08-14 | 2 x 4  | 1-03-08                   | 3-15<br>2-00-15              | 62.87<br>37.33   |                     |                    |
|         | 3          | J55<br>Jack-Open    | 4 /12  | 4-10-00  | 2-04-03 | 2 x 4  | 1-03-08                   | 3-15<br>1-08-04              | 38.95<br>24.00   |                     |                    |

TOTAL # TRUSS= 46

TOTAL BFT OF ALL TRUSSES= 1680.33

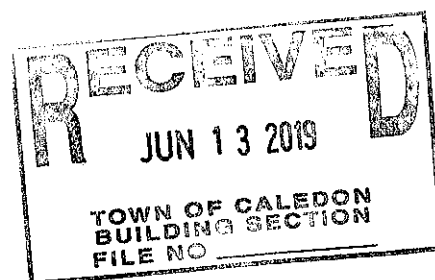
BFT.

TOTAL WEIGHT OF ALL TRSSES 2706.06 LBS

### HARDWARE

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 3   | Hardware | LJS26DS  |        |
| 1   | Hardware | HGUS26-2 |        |

TOTAL NUMBER OF ITEMS= 4





## DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: GREEN PARK HOMES  
 Project: LAMBERT LANE PH.2  
 Location: CALEDON  
 Model: BLOCK 96  
 Lot #:  
 Elevation:

Job Track: 50033  
 PlanLog: 200648  
 Layout ID: 401795  
 Ref #  
 Page: 1 of 3  
 Date: 03/12/2019  
 Designer: Andrew Conway  
 Sales Rep: Mario DiCano

### 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 |
|---------|------------|---------------------------|-------|----------|----------|----------------|---------------------------|------------------------------|------------------|---------------------|--------------------|
|         | 1          | T65<br>Half Hip           | 8/12  | 21-00-08 | 8-01-04  | 2 x 4          | 1-03-08                   | 1-04-13<br>8-01-04           | 101.67<br>63.83  |                     |                    |
|         | 1          | T66<br>Half Hip           | 8/12  | 21-00-08 | 9-01-04  | 2 x 4          | 1-03-08                   | 1-04-13<br>9-01-04           | 107.3<br>67.17   |                     |                    |
|         | 2          | T67<br>Half Hip           | 8/12  | 21-00-08 | 10-01-04 | 2 x 4          | 1-03-08                   | 1-04-13<br>10-01-04          | 224.23<br>140.00 |                     |                    |
|         | 1<br>3-ply | T68<br>Half Hip<br>Girder | 8/12  | 21-00-08 | 9-09-08  | 2 x 4<br>2 x 8 |                           | 1-04-13<br>9-09-08           | 410.81<br>253.00 |                     |                    |
|         | 1          | T70S<br>Roof Special      | 6/12  | 10-10-00 | 3-10-08  | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 45.46<br>31.50   |                     |                    |
|         | 1          | T70SA<br>Roof Special     | 6/12  | 10-07-00 | 3-10-08  | 2 x 4          | 1-03-08                   | 1-02-00<br>1-02-00           | 43.33<br>30.00   |                     |                    |
|         | 1          | T71<br>Half Hip           | 6/12  | 10-07-00 | 4-02-02  | 2 x 4          | 1-03-08                   | 1-02-00<br>4-02-02           | 43.7<br>28.00    |                     |                    |
|         | 1<br>3-ply | T72<br>Hip Girder         | 6/12  | 17-03-00 | 5-03-13  | 2 x 4<br>2 x 6 | 1-03-08                   | 1-02-00<br>2-06-00           | 255.5<br>162.00  |                     |                    |
|         | 1<br>2-ply | T73<br>Flat Girder        | 0/12  | 18-10-08 | 4-01-04  | 2 x 4          |                           | 4-01-04<br>4-01-04           | 156.16<br>97.33  |                     |                    |
|         | 1          | T74<br>Flat               | 0/12  | 18-10-08 | 5-01-04  | 2 x 4          |                           | 5-01-04<br>5-01-04           | 79<br>49.00      |                     |                    |
|         | 1          | T75<br>Half Hip           | 8/12  | 18-10-08 | 6-01-04  | 2 x 4          |                           | 2-10-02<br>6-01-04           | 80.7<br>50.67    |                     |                    |
|         | 1          | T76<br>Half Hip           | 8/12  | 18-10-08 | 7-01-04  | 2 x 4          |                           | 2-10-02<br>7-01-04           | 88.49<br>55.33   |                     |                    |
|         | 1          | T77<br>Half Hip           | 8/12  | 18-10-08 | 8-01-04  | 2 x 4          |                           | 2-10-02<br>8-01-04           | 93.51<br>59.00   |                     |                    |
|         | 1          | T78<br>Half Hip           | 8/12  | 18-10-08 | 9-01-04  | 2 x 4          |                           | 2-10-02<br>9-01-04           | 101.68<br>64.33  |                     |                    |



## DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: GREEN PARK HOMES  
 Project: LAMBERT LANE PH.2  
 Location: CALEDON  
 Model: BLOCK 96  
 Lot #:  
 Elevation:

Job Track: 50033  
 PlanLog: 200648  
 Layout ID: 401795  
 Ref #  
 Page: 2 of 3  
 Date: 03/12/2019  
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### Roof Trusses

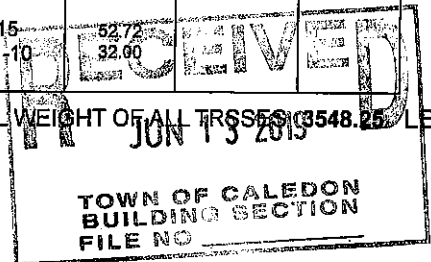
| PROFILE | QTY<br>PLY | MARK<br>TYPE              | PITCH | SPAN     | HEIGHT  | LUMBER         | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|---------|------------|---------------------------|-------|----------|---------|----------------|---------------------------|------------------------------|------------------|---------------------|--------------------|
|         | 2          | T79S<br>Roof Special      | 6/12  | 12-00-00 | 4-02-00 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 102.86<br>68.33  |                     |                    |
|         | 1<br>2-ply | T80<br>Common<br>Girder   | 6/12  | 12-00-00 | 4-02-00 | 2 x 4<br>2 x 6 |                           | 1-02-00<br>1-02-00           | 112.13<br>70.00  |                     |                    |
|         | 1<br>2-ply | T81<br>Flat Girder        | 0/12  | 17-09-08 | 4-01-04 | 2 x 4<br>2 x 6 |                           | 4-01-04<br>4-01-04           | 170.78<br>108.67 |                     |                    |
|         | 1          | T82<br>Half Hip           | 8/12  | 17-09-08 | 5-01-04 | 2 x 4          |                           | 1-06-13<br>5-01-04           | 78.2<br>49.50    |                     |                    |
|         | 1          | T83<br>Half Hip           | 8/12  | 17-09-08 | 6-01-04 | 2 x 4          |                           | 1-06-13<br>6-01-04           | 78.66<br>49.67   |                     |                    |
|         | 1          | T84<br>Half Hip           | 8/12  | 17-09-08 | 6-10-04 | 2 x 4          |                           | 1-06-13<br>6-10-04           | 82.45<br>52.33   |                     |                    |
|         | 1<br>3-ply | T85<br>Half Hip<br>Girder | 8/12  | 21-00-08 | 7-02-00 | 2 x 4<br>2 x 6 |                           | 1-04-13<br>7-02-00           | 348.49<br>218.00 |                     |                    |
|         | 3          | T86<br>Common             | 8/12  | 10-07-00 | 5-00-02 | 2 x 4          | 1-03-08<br>1-03-08        | 1-06-13<br>1-04-13           | 133.9<br>86.00   |                     |                    |
|         | 1          | G86<br>GABLE              | 8/12  | 10-10-00 | 5-00-02 | 2 x 4          | 1-03-08<br>1-03-08        | 1-04-13<br>1-04-13           | 47.14<br>31.17   |                     |                    |
|         | 14         | J1<br>Jack-Open           | 6/12  | 5-10-08  | 4-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-01-04           | 235.12<br>149.33 |                     |                    |
|         | 3          | J51S<br>Jack-Open         | -8/12 | 3-10-08  | 5-03-13 | 2 x 4          | 1-03-08                   | 5-03-13<br>1-04-13           | 53.99<br>36.50   |                     |                    |
|         | 12         | J52<br>Jack-Open          | 4/12  | 6-03-00  | 2-09-14 | 2 x 4          | 1-03-08                   | 3-15<br>2-00-04              | 220.28<br>146.00 |                     |                    |
|         | 4          | J53<br>Jack-Open          | 4/12  | 4-11-00  | 2-04-08 | 2 x 4          | 1-03-08                   | 3-15<br>1-11-10              | 52.72<br>32.00   |                     |                    |

TOTAL # TRUSS= 69

TOTAL BFT OF ALL TRUSSES= 2246.66

BFT.

TOTAL WEIGHT OF ALL TRUSSES= 3548.25 LBS



## DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER  
Builder: GREEN PARK HOMES  
Project: LAMBERT LANE PH.2  
Location: CALEDON  
Model: BLOCK 96  
Lot #:  
Elevation:

Job Track: 50033  
PlanLog: 200648  
Layout ID: 401795  
Ref #  
Page: 3 of 3  
Date: 03/12/2019  
Designer: Andrew Conway  
Sales Rep: Mario DiCano

## HARDWARE

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 4   | Hardware | HGUS26-2 |        |
| 1   | Hardware | HGUS28-3 |        |
| 6   | Hardware | LUS24    |        |
| 1   | Hardware | LUS26-2  |        |
| 10  | Hardware | LJS26DS  |        |

TOTAL NUMBER OF ITEMS= 22



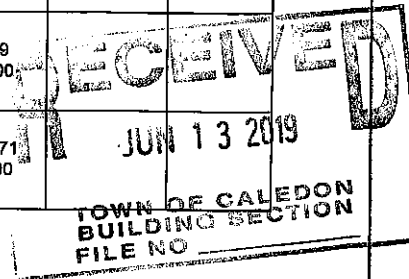
# DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: GREEN PARK HOMES  
 Project: LAMBERT LANE PH.2  
 Location: CALEDON  
 Model: BLOCK 96  
 Lot #:  
 Elevation:

Job Track: 50033  
 Plan Log: 200648  
 Layout ID: 401798  
 Ref #  
 Page: 1 of 2  
 Date: 03/12/2019  
 Designer: Andrew Conway  
 Sales Rep: Mario DiCano

## 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 |
|---------|------------|---------------------|-------|----------|----------|----------------|---------------------------|------------------------------|------------------|---------------------|--------------------|
|         | 1<br>2-ply | T11<br>Flat Girder  | 0/12  | 21-10-12 | 4-01-04  | 2 x 4          |                           | 4-01-04<br>4-01-04           | 173.9<br>109.33  |                     |                    |
|         | 2          | T12<br>Flat         | 0/12  | 21-10-12 | 5-01-04  | 2 x 4          |                           | 5-01-04<br>5-01-04           | 175.8<br>109.00  |                     |                    |
|         | 2          | T13<br>Flat         | 0/12  | 21-10-12 | 6-01-04  | 2 x 4          |                           | 6-01-04<br>6-01-04           | 186.48<br>113.67 |                     |                    |
|         | 2          | T14<br>Flat         | 0/12  | 21-10-12 | 7-01-04  | 2 x 4          |                           | 7-01-04<br>7-01-04           | 197.49<br>121.33 |                     |                    |
|         | 2          | T15<br>Flat         | 0/12  | 21-10-12 | 8-01-04  | 2 x 4          |                           | 8-01-04<br>8-01-04           | 228.81<br>140.00 |                     |                    |
|         | 2          | T16<br>Flat         | 0/12  | 21-10-12 | 9-01-04  | 2 x 4          |                           | 9-01-04<br>9-01-04           | 241.79<br>148.67 |                     |                    |
|         | 3          | T17<br>Flat         | 0/12  | 21-10-12 | 10-01-04 | 2 x 4          |                           | 10-01-04<br>10-01-04         | 382.54<br>230.00 |                     |                    |
|         | 2          | T52<br>Common       | 8/12  | 10-02-08 | 4-11-13  | 2 x 4          |                           | 1-06-13<br>1-07-02           | 80.17<br>53.67   |                     |                    |
|         | 1          | T53<br>Common       | 8/12  | 10-05-08 | 4-09-09  | 2 x 4          | 1-03-08                   | 4-13<br>7-02                 | 31.69<br>20.67   |                     |                    |
|         | 1          | G53<br>GABLE        | 8/12  | 10-09-00 | 4-09-09  | 2 x 4          | 1-03-08<br>1-03-08        | 4-13<br>4-13                 | 37.08<br>24.33   |                     |                    |
|         | 1<br>2-ply | T110<br>Flat Girder | 0/12  | 21-10-12 | 4-01-04  | 2 x 4<br>2 x 6 |                           | 4-01-04<br>4-01-04           | 200.24<br>124.00 |                     |                    |
|         | 11         | J1<br>Jack-Open     | 6/12  | 5-10-08  | 4-01-04  | 2 x 4          | 1-03-08                   | 1-02-00<br>4-01-04           | 184.74<br>117.33 |                     |                    |
|         | 6          | J11<br>Jack-Open    | 6/12  | 5-07-08  | 4-01-04  | 2 x 4          | 1-06-08                   | 1-03-08<br>4-01-04           | 99.9<br>64.00    |                     |                    |
|         | 6          | J56<br>Jack-Open    | 4/12  | 6-05-00  | 3-01-08  | 2 x 4          | 1-03-08                   | 3-15<br>2-05-10              | 127.71<br>87.00  |                     |                    |



## DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER  
 Builder: GREEN PARK HOMES  
 Project: LAMBERT LANE PH.2  
 Location: CALEDON  
 Model: BLOCK 96  
 Lot #:  
 Elevation:

Job Track: 50033  
 PlanLog: 200648  
 Layout ID: 401798  
 Ref #  
 Page: 2 of 2  
 Date: 03/12/2019  
 Designer: Andrew Conway  
 Sales Rep: Mario DiCano

### 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 |
|---------|------------|--------------|-------|------|--------|--------|---------------------------|------------------------------|--------------|---------------------|--------------------|
|---------|------------|--------------|-------|------|--------|--------|---------------------------|------------------------------|--------------|---------------------|--------------------|

TOTAL # TRUSS= 44

TOTAL BFT OF ALL TRUSSES= 1463

BFT.

TOTAL WEIGHT OF ALL TRSSES 2348.35 LBS

### HARDWARE

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 3   | Hardware | LUS24    |        |
| 1   | Hardware | HGUS26-2 |        |

TOTAL NUMBER OF ITEMS= 4



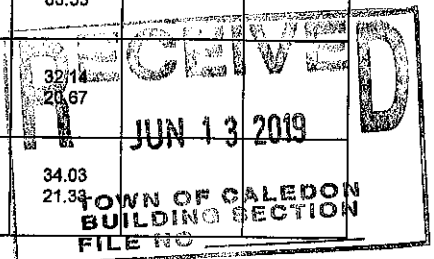
## DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: GREEN PARK HOMES  
 Project: LAMBERT LANE PH.2  
 Location: CALEDON  
 Model: BLOCK 96  
 Lot #:  
 Elevation:

Job Track: 50033  
 PlanLog: 200648  
 Layout ID: 401799  
 Ref #  
 Page: 1 of 2  
 Date: 03/12/2019  
 Designer: Andrew Conway  
 Sales Rep: Mario DiCano

### 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 |
|---------|------------|--------------------------------------------|-------|----------|----------|----------------|---------------------------|------------------------------|------------------|---------------------|--------------------|
|         | 1<br>2-ply | T1<br>Half Hip<br>Girder                   | 8/12  | 20-02-08 | 4-01-04  | 2 x 4<br>2 x 6 | 1-03-08                   | 1-04-13<br>4-01-04           | 187.4<br>118.33  |                     |                    |
|         | 1<br>2-ply | T1Z<br>Half Hip<br>Girder                  | 8/12  | 20-02-08 | 4-01-04  | 2 x 4<br>2 x 6 | 1-03-08                   | 1-04-13<br>4-01-04           | 187.4<br>118.33  |                     |                    |
|         | 2          | T2<br>Half Hip                             | 8/12  | 20-02-08 | 5-01-04  | 2 x 4          | 1-03-08                   | 1-04-13<br>5-01-04           | 173.45<br>110.00 |                     |                    |
|         | 2          | T3<br>Half Hip                             | 8/12  | 20-02-08 | 6-01-04  | 2 x 4          | 1-03-08                   | 1-04-13<br>6-01-04           | 174.28<br>110.67 |                     |                    |
|         | 2          | T4<br>Half Hip                             | 8/12  | 20-02-08 | 7-01-04  | 2 x 4          | 1-03-08                   | 1-04-13<br>7-01-04           | 187.92<br>119.00 |                     |                    |
|         | 2          | T5<br>Half Hip                             | 8/12  | 20-02-08 | 8-01-04  | 2 x 4          | 1-03-08                   | 1-04-13<br>8-01-04           | 198.8<br>124.33  |                     |                    |
|         | 2          | T6<br>Half Hip                             | 8/12  | 20-02-08 | 9-01-04  | 2 x 4          | 1-03-08                   | 1-04-13<br>9-01-04           | 210.2<br>131.67  |                     |                    |
|         | 3          | T7<br>Half Hip                             | 8/12  | 20-02-08 | 10-01-04 | 2 x 4          | 1-03-08                   | 1-04-13<br>10-01-04          | 328.66<br>208.00 |                     |                    |
|         | 2          | T8<br>Common                               | 8/12  | 14-09-00 | 6-03-13  | 2 x 4          | 1-03-08<br>1-03-08        | 1-04-13<br>1-04-13           | 126.65<br>78.00  |                     |                    |
|         | 1          | G8<br>GABLE                                | 8/12  | 14-09-00 | 6-03-13  | 2 x 4          | 1-03-08<br>1-03-08        | 1-04-13<br>1-04-13           | 65.08<br>42.00   |                     |                    |
|         | 2          | T9<br>Common                               | 8/12  | 14-03-00 | 6-01-13  | 2 x 4          | 1-03-08<br>1-03-08        | 1-04-13<br>1-04-13           | 122.89<br>78.00  |                     |                    |
|         | 2          | T9S<br>Roof Special<br>Structural<br>Gable | 8/12  | 14-03-00 | 6-01-13  | 2 x 4          | 1-03-08<br>1-03-08        | 1-04-13<br>4-13              | 128.67<br>83.33  |                     |                    |
|         | 1          | T10<br>Common                              | 8/12  | 9-10-00  | 4-05-14  | 2 x 4          | 1-03-08<br>1-03-08        | 4-13<br>4-13                 | 32/14<br>20.67   |                     |                    |
|         | 1          | G10<br>GABLE                               | 8/12  | 9-10-00  | 4-05-14  | 2 x 4          | 1-03-08<br>1-03-08        | 4-13<br>4-13                 | 34.03<br>21.34   |                     |                    |





## DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: GREEN PARK HOMES  
 Project: LAMBERT LANE PH.2  
 Location: CALEDON  
 Model: BLOCK 96  
 Lot #:  
 Elevation:

Job Track: 50033  
 PlanLog: 200648  
 Layout ID: 401799  
 Ref #  
 Page: 2 of 2  
 Date: 03/12/2019  
 Designer: Andrew Conway  
 Sales Rep: Mario DiCano

### 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 |
|---------|------------|------------------|-------|---------|---------|--------|---------------------------|------------------------------|-----------------|---------------------|--------------------|
|         | 3          | T87<br>Monopitch | 4 /12 | 8-02-00 | 3-05-08 | 2 x 4  | 1-03-08                   | 3-15<br>3-00-10              | 87.89<br>57.00  |                     |                    |
|         | 6          | J1<br>Jack-Open  | 6 /12 | 5-10-08 | 4-01-04 | 2 x 4  | 1-03-08                   | 1-02-00<br>4-01-04           | 100.77<br>64.00 |                     |                    |
|         | 6          | J52<br>Jack-Open | 4 /12 | 6-03-00 | 2-09-14 | 2 x 4  | 1-03-08                   | 3-15<br>2-00-04              | 110.14<br>73.00 |                     |                    |
|         | 3          | J67<br>Jack-Open | 4 /12 | 6-03-00 | 3-00-14 | 2 x 4  | 1-03-08                   | 3-15<br>2-04-15              | 62.43<br>39.50  |                     |                    |

TOTAL # TRUSS= 44

TOTAL BFT OF ALL TRUSSES= 1597.16

BFT.

TOTAL WEIGHT OF ALL TRSSES 2519.6 LBS

### HARDWARE

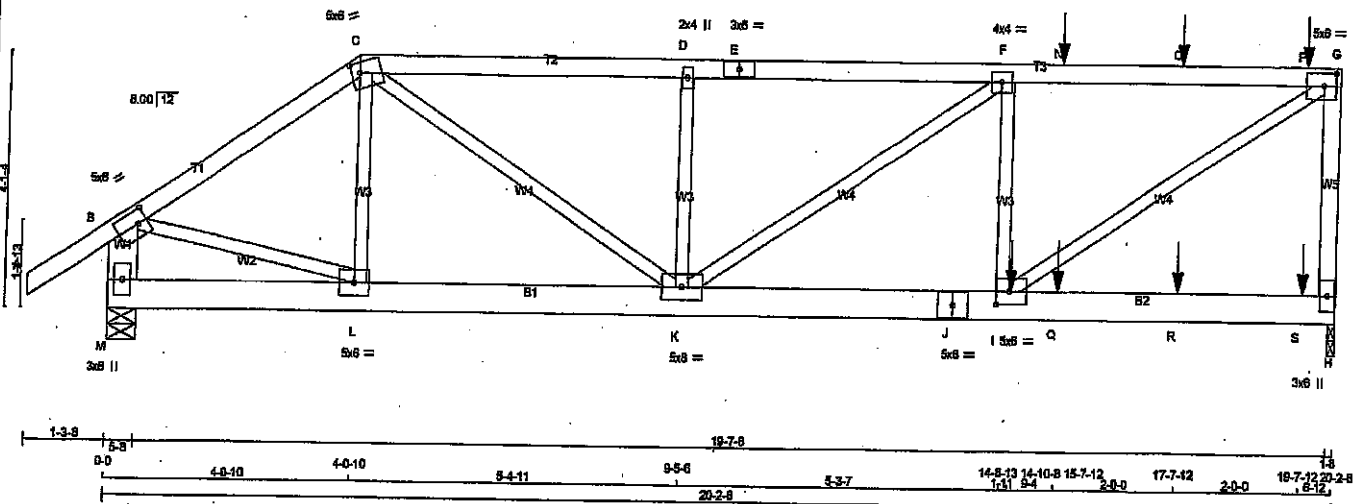
| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 4   | Hardware | LJS26DS  |        |
| 2   | Hardware | HGUS26-2 |        |

TOTAL NUMBER OF ITEMS= 6

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESO.   | GREEN PARK HOMES | DRWG NO. |
|----------|------------|----------|-----|-------------|------------------|----------|
| 401769   | T1         | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MTek Industries, Inc. Mon Mar 18 12:18:40 2019 Page 1  
ID:FkpukmLuzMYa3V15z5b8\_zdJ7d-8VWnF1VYsv2n7MuKInDm7VqvEseMeHfZ3pLpZJ[E7  
14-8-13 18-7-12 2-0-0 17-7-12 2-0-0 19-7-12 20-2-8 6-1-6  
Scale = 1:24.5



| CHORDS | SIZE | LUMBER   | DESCR. |
|--------|------|----------|--------|
| A - C  | 2x4  | DRY No.2 | SPF    |
| C - E  | 2x4  | DRY No.2 | SPF    |
| E - G  | 2x4  | DRY No.2 | SPF    |
| H - G  | 2x4  | DRY No.2 | SPF    |
| M - B  | 2x6  | DRY No.2 | SPF    |
| M - J  | 2x6  | DRY No.2 | SPF    |
| J - 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 1                                    | 12                   | TOP         |
| C-E 1                                    | 12                   | TOP         |
| E-G 1                                    | 12                   | SIDE(0.0)   |
| G-H 1                                    | 12                   | TOP         |
| M-B 2                                    | 12                   | TOP         |
| BOTTOM CHORDS : (0.122'X3') SPIRAL NAILS |                      |             |
| M-J 2                                    | 12                   | SIDE(0.1)   |
| J-H 2                                    | 12                   | SIDE(183.1) |
| WEBS : (0.122'X3') SPIRAL NAILS          |                      |             |
| L-F 1                                    | 6                    | SIDE(177.3) |
| 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    |
|-----------|--------|-----|-----|------|------|
| B TMWV-t  | MT20   | 5.0 | 6.0 | 2.50 | 1.75 |
| C TTWW-m  | MT20   | 5.0 | 6.0 | 2.00 | 1.75 |
| D TMWV-w  | MT20   | 2.0 | 4.0 |      |      |
| E TS-t    | MT20   | 3.0 | 6.0 |      |      |
| F TMWV-t  | MT20   | 4.0 | 4.0 |      |      |
| G TMWV-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| H BMV1+p  | MT20   | 3.0 | 6.0 |      |      |
| I BMWV-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| J BS-t    | MT20   | 5.0 | 6.0 |      |      |
| K BMWVW-t | MT20   | 5.0 | 6.0 |      |      |
| L BMWV-t  | MT20   | 5.0 | 6.0 |      |      |
| M BMV1+p  | MT20   | 3.0 | 6.0 |      |      |

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | DOWN                            | IN-SX     | IN-SX    |
| H        | 2628                    | 0                               | 0         | 1-8      |
| M        | 1760                    | 0                               | 0         | 5-8      |

UNFACTORED REACTIONS

| JT | COMBINED | SNOW     | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|----------|----------|-------|-----------|-------|---------|-------|
| H  | 1844     | 1289 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 552 / 0 | 0 / 0 |
| M  | 1247     | 883 / 0  | 0 / 0 | 0 / 0     | 0 / 0 | 384 / 0 | 0 / 0 |

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.78 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.     | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX. CSI (LC) | MAX. UNBRACED LENGTH | WEBS | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH |
|--------|-----------|---------------------------|---------------------------|-------------------|----------------------|------|----------|---------------------------|----------------------|
| A-B    | 0 / 38    | -102.1                    | -102.1                    | 0.08 (1)          | 10.00                | L-C  | -265 / 0 | 0.03 (1)                  |                      |
| B-C    | -1860 / 0 | -102.1                    | -102.1                    | 0.18 (1)          | 6.18                 | B-L  | 0 / 1589 | 0.20 (1)                  |                      |
| C-D    | -2779 / 0 | -102.1                    | -102.1                    | 0.25 (1)          | 5.23                 | I-G  | 0 / 3735 | 0.46 (1)                  |                      |
| D-E    | -2779 / 0 | -102.1                    | -102.1                    | 0.38 (1)          | 5.07                 | C-K  | 0 / 1507 | 0.19 (1)                  |                      |
| E-F    | -2779 / 0 | -102.1                    | -102.1                    | 0.35 (1)          | 5.07                 | L-F  | -610 / 0 | 0.08 (1)                  |                      |
| F-N    | -3087 / 0 | -102.1                    | -102.1                    | 0.42 (1)          | 4.78                 | K-D  | -552 / 0 | 0.07 (1)                  |                      |
| N-O    | -3087 / 0 | -102.1                    | -102.1                    | 0.42 (1)          | 4.78                 | K-F  | -552 / 0 | 0.07 (1)                  |                      |
| O-P    | -3087 / 0 | -102.1                    | -102.1                    | 0.42 (1)          | 4.78                 |      |          |                           |                      |
| P-G    | -3087 / 0 | -102.1                    | -102.1                    | 0.42 (1)          | 4.78                 |      |          |                           |                      |
| H-G    | -2526 / 0 | 0.0                       | 0.0                       | 0.31 (1)          | 7.13                 |      |          |                           |                      |
| M-B    | -1753 / 0 | 0.0                       | 0.0                       | 0.09 (1)          | 7.81                 |      |          |                           |                      |
| M-L    | 0 / 0     | -17.5                     | -17.5                     | 0.03 (4)          | 10.00                |      |          |                           |                      |
| L-K    | 0 / 1538  | -17.5                     | -17.5                     | 0.12 (1)          | 10.00                |      |          |                           |                      |
| K-J    | 0 / 3087  | -17.5                     | -17.5                     | 0.24 (1)          | 10.00                |      |          |                           |                      |
| J-I    | 0 / 3087  | -17.5                     | -17.5                     | 0.24 (1)          | 10.00                |      |          |                           |                      |
| I-Q    | 0 / 0     | -17.5                     | -17.5                     | 0.06 (4)          | 10.00                |      |          |                           |                      |
| Q-R    | 0 / 0     | -17.5                     | -17.5                     | 0.06 (4)          | 10.00                |      |          |                           |                      |
| R-S    | 0 / 0     | -17.5                     | -17.5                     | 0.06 (4)          | 10.00                |      |          |                           |                      |
| S-H    | 0 / 0     | -17.5                     | -17.5                     | 0.06 (4)          | 10.00                |      |          |                           |                      |

FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1   | MAX.  | MAX+ | FACE | DIR. | TOTAL |
|----|---------|-------|-------|------|------|------|-------|
| I  | 14-10-6 | -1361 | -1361 |      | BACK | VERT |       |
| N  | 15-7-12 | -123  | -123  |      | BACK | VERT |       |
| O  | 17-7-12 | -123  | -123  |      | BACK | VERT |       |
| P  | 19-7-12 | -145  | -145  |      | BACK | VERT |       |
| Q  | 15-7-12 | -25   | -25   |      | BACK | VERT |       |
| R  | 17-7-12 | -25   | -25   |      | BACK | VERT |       |
| S  | 19-7-12 | -29   | -29   |      | BACK | VERT |       |

TOTAL WEIGHT = 2 X 84 = 167 lb

DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(55 % OF 37.8 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/380 (0.67")  
CALCULATED VERT. DEFL.(LL) = L/989 (0.05")  
ALLOWABLE DEFL.(TL) = L/380 (0.67")  
CALCULATED VERT. DEFL.(TL) = L/989 (0.09")

CSI: TC=0.42/1.00 (F-G-1), BC=0.24/1.00 (H-K-1),  
WB=0.46/1.00 (G-1), SS=0.23/1.00 (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

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 818 354 1867 788 1987 1656

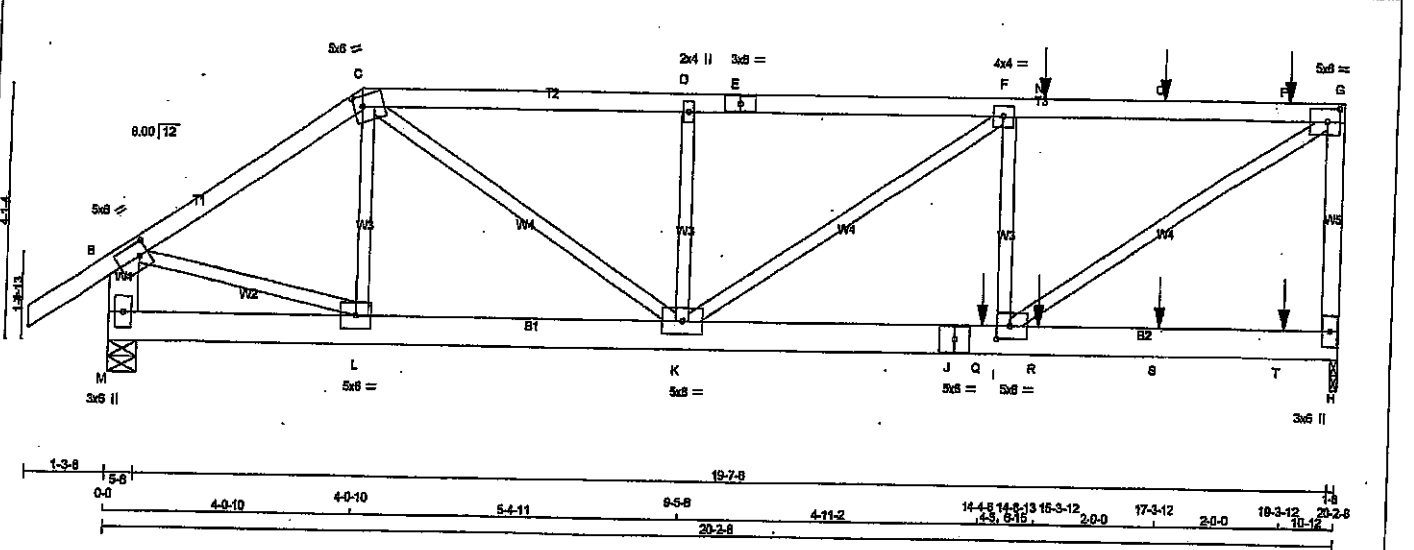
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

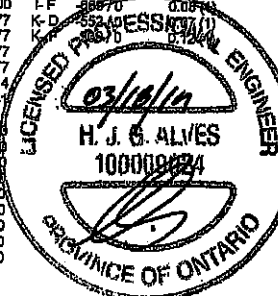
JSI GRIP= 0.76 (G) (INPUT = 0.90)  
JSI METAL= 0.39 (I) (INPUT = 1.00)

DWG NO. TAM 71905362  
STRUCTURAL  
COMPONENT ONLY

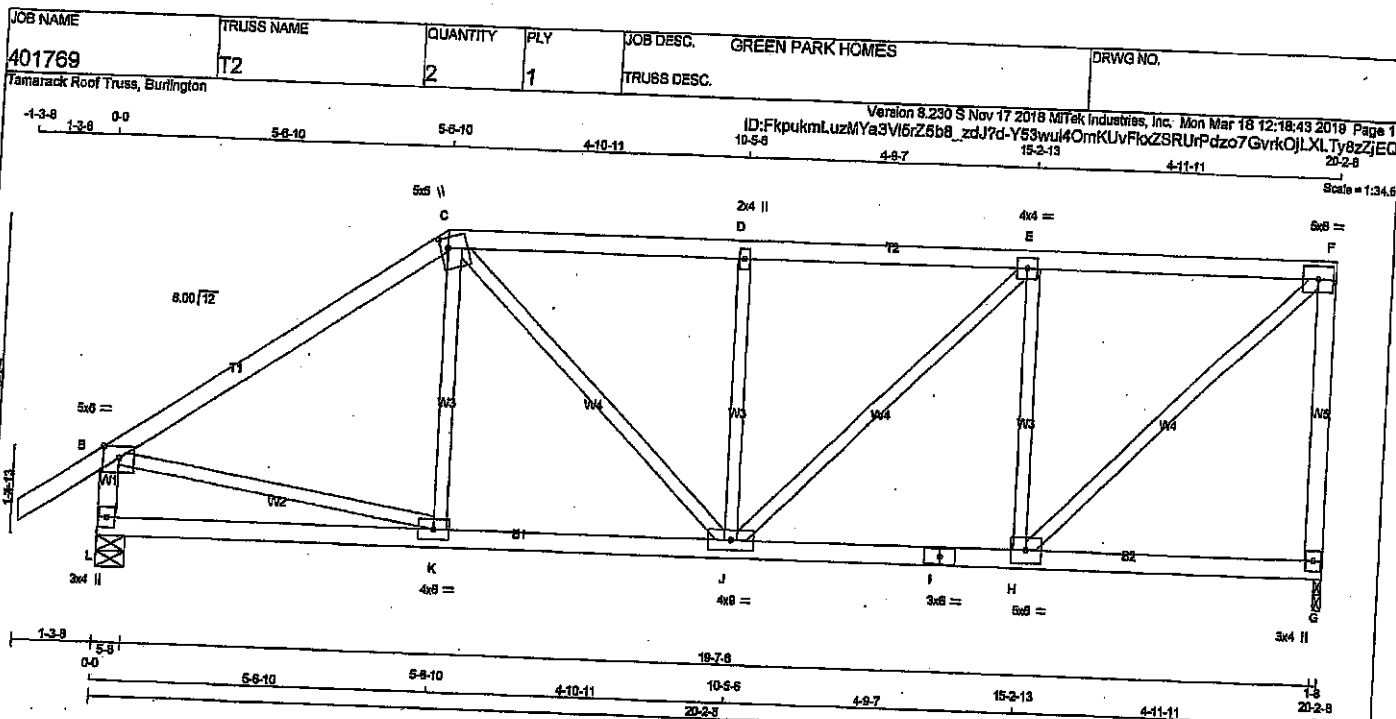
|                                 |                          |                                                                                                                                                               |                 |                                      |          |
|---------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>401769</b>       | TRUSS NAME<br><b>T1Z</b> | QUANTITY<br><b>1</b>                                                                                                                                          | PLY<br><b>2</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          | Version 8.230 8 Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 12:18:42 2019 Page 1<br>ID:FkpukmLuzMYa3V5rZ5b8_zdJ7d-4uVYgP5m4TCd159k7wF1B5rZjuAGF1a6bwQlZzJER |                 |                                      |          |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |
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-------------------------------------------------------------------------------------------------------------------|--|--|--|
| <b>LUMBER</b><br>N. L. G. A. RULES<br>CHORDS SIZE LUMBER DESCR.<br>A - C 2x4 DRY No.2 SPF<br>C - E 2x4 DRY No.2 SPF<br>E - G 2x4 DRY No.2 SPF<br>H - G 2x4 DRY No.2 SPF<br>M - B 2x6 DRY No.2 SPF<br>J - H 2x6 DRY No.2 SPF<br>ALL WEBS 2x3 DRY No.2 SPF<br>DRY: SEASONED LUMBER.<br>DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:<br>CHORDS #ROWS SURFACE SPACING (IN) LOAD (PLF)<br>TOP CHORDS: (0.122"x3") SPIRAL NAILS<br>A-C 1 12 TOP<br>C-E 1 12 TOP<br>E-G 1 12 TOP<br>G-H 1 12 TOP<br>M-B 2 12 TOP<br>BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS<br>M-J 2 12 TOP<br>J-H 2 12 TOP<br>WEBS: (0.122"x3") SPIRAL NAILS<br>2x3 1 6<br>NAILS TO BE DRIVEN FROM ONE SIDE ONLY.<br>GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.<br>TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLYS FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.<br>SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERRING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP. |  |  |  | <b>DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</b><br><b>BEARINGS</b><br>FACTORED MAXIMUM FACTORED INPUT RECD<br>GROSS REACTION GROSS REACTION BRG BRG<br>JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX<br>H 2575 0 2575 0 0 1-8 1-8<br>M 1810 0 1810 0 0 5-8 5-8<br><b>UNFACTORED REACTIONS</b><br>1ST LCASE MAX/MIN COMPONENT REACTIONS<br>JT COMBINED SNOW LIVE PERMLIVE WIND DEAD SOIL<br>H 1806 1266 / 0 0 / 0 0 / 0 540 / 0 0 / 0<br>M 1266 888 / 0 0 / 0 0 / 0 370 / 0 0 / 0<br>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) H, M<br><b>BRACING</b><br>TOP CHORD TO BE SHEATHED OR MAX. FURLIN SPACING = 4.77 FT.<br>MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.<br>ALL FITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.<br><b>LOADING</b><br>TOTAL LOAD CASES: (4)<br>CHORDS MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD LC1 MAX. MAX. UNBRAC LENGTH FR-TO<br>FR-TO A-B 0 / 89 -102.1 -102.1 0.08 (1) 10.00 L-C -293 / 0 0.04 (1)<br>B-C -1695 / 0 -102.1 -102.1 0.18 (1) 8.13 B-L 0 / 1618 0.20 (1)<br>C-D -2875 / 0 -102.1 -102.1 0.25 (1) 5.16 I-G 0 / 3784 0.47 (1)<br>D-E -2875 / 0 -102.1 -102.1 0.56 (1) 5.00 C-K 0 / 1590 0.20 (1)<br>E-F -2875 / 0 -102.1 -102.1 0.36 (1) 5.00 I-F -2875 / 0 0.08 (1)<br>F-N -3128 / 0 -102.1 -102.1 0.40 (1) 4.77 K-D -552 / 0 0.08 (1)<br>N-O -3128 / 0 -102.1 -102.1 0.40 (1) 4.77 K-E -552 / 0 0.08 (1)<br>O-P -3128 / 0 -102.1 -102.1 0.40 (1) 4.77 K-F -552 / 0 0.08 (1)<br>P-G -3128 / 0 -102.1 -102.1 0.40 (1) 4.77 K-H -552 / 0 0.08 (1)<br>H-G -2516 / 0 0.0 0.0 0.31 (1) 7.14<br>M-B -1779 / 0 0.0 0.0 0.08 (1) 7.81<br>WEBS MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD LC1 MAX. MAX. UNBRAC LENGTH FR-TO<br>M-L 0 / 0 -17.5 -17.5 0.02 (4) 10.00<br>L-K 0 / 1586 -17.5 -17.5 0.12 (1) 10.00<br>K-J 0 / 3128 -17.5 -17.5 0.33 (1) 10.00<br>J-I 0 / 3128 -17.5 -17.5 0.33 (1) 10.00<br>I-H 0 / 3128 -17.5 -17.5 0.33 (1) 10.00<br>H-G 0 / 0 -17.5 -17.5 0.08 (4) 10.00<br>G-F 0 / 0 -17.5 -17.5 0.08 (4) 10.00<br>F-E 0 / 0 -17.5 -17.5 0.08 (4) 10.00<br>E-D 0 / 0 -17.5 -17.5 0.08 (4) 10.00<br>D-C 0 / 0 -17.5 -17.5 0.08 (4) 10.00<br>C-B 0 / 0 -17.5 -17.5 0.08 (4) 10.00<br>B-A 0 / 0 -17.5 -17.5 0.08 (4) 10.00<br>FACTORED CONCENTRATED LOADS (LBS)<br>JT LOC. LC1 MAX. MAX. FACE DIR. TYPE HEEL CONN.<br>N 15-3-12 -123 -123 - - FRONT VERT TOTAL - -<br>O 17-3-12 -123 -123 - - FRONT VERT TOTAL - -<br>P 19-3-12 -128 -128 - - FRONT VERT TOTAL - -<br>Q 14-4-8 -1378 -1378 - - FRONT VERT TOTAL - -<br>R 15-3-12 -25 -25 - - FRONT VERT TOTAL - -<br>S 17-3-12 -25 -25 - - FRONT VERT TOTAL - -<br>T 19-3-12 -28 -28 - - FRONT VERT TOTAL - - |  |  |  | <b>DESIGN CRITERIA</b><br>SPECIFIED LOADS:<br>TOP CH. LL = 28.0 PSF<br>BOT CH. LL = 6.0 PSF<br>DL = 0.0 PSF<br>DL = 7.0 PSF<br>TOTAL LOAD = 42.0 PSF<br><b>SPACING = 24.0 IN. OC</b><br>LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM<br>THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015<br>THIS DESIGN COMPLIES WITH:<br>- PART 9 OF BCBC 2018, OBC 2012<br>- CSA 086-09, CSA 086-14<br>- TPIC 2011, TPIC 2014<br>(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD<br>ALLOWABLE DEFL. (LL) = 1/360 (0.67")<br>CALCULATED VERT. DEFL. (LL) = 1/999 (0.06")<br>ALLOWABLE DEFL. (TL) = 1/360 (0.67")<br>CALCULATED VERT. DEFL. (TL) = 1/999 (0.11")<br>CSI: TC=0.40/1.00 (F-G:1), BC=0.33/1.00 (H-K:1), WB=0.47/1.00 (G-H:1), SSI=0.45/1.00 (H-K:1)<br>DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00<br>COMPANION LIVE LOAD FACTOR = 1.00<br>AUTOSOLVE RIGHT HEEL ONLY<br>TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.<br>NAIL VALUES<br>PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)<br>MAX MIN MAX MIN MAX MIN<br>MT20 818 354 1867 788 1987 1656<br>PLATE PLACEMENT TOL = 0.250 inches<br>PLATE ROTATION TOL = 5.0 Deg.<br>JSI GRIP = 0.77 (G) (INPUT = 0.90)<br>JSI METAL = 0.42 (J) (INPUT = 1.00) |  |  |  |
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DWG NO. TAM 7105353  
STRUCTURAL  
COMPONENT ONLY



**LUMBER**

N. L. G. A. RULES

| CHORDS | SIZE | LUMBER   |
|--------|------|----------|
| A - C  | 2x4  | DRY No.2 |
| C - F  | 2x4  | DRY No.2 |
| G - B  | 2x4  | DRY No.2 |
| L - I  | 2x4  | DRY No.2 |
| I - G  | 2x4  | DRY No.2 |

ALL WEBS 2x3 DRY No.2  
EXCEPT

DRY: SEASONED LUMBER.

**PLATES (table in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-p | MT20   | 5.0 | 6.0 | Edge |      |
| C  | TMVW-m | MT20   | 5.0 | 6.0 | 2.00 | 1.80 |
| D  | TMVW-w | MT20   | 2.0 | 4.0 |      |      |
| E  | TMVW-t | MT20   | 4.0 | 4.0 |      |      |
| F  | TMVW-t | MT20   | 5.0 | 6.0 |      |      |
| G  | BMV1-p | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| I  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| J  | BMVW-w | MT20   | 4.0 | 9.0 |      |      |
| K  | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| L  | 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 IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| G  | 1208                    | 0    | 1208                            | 0    | 1-8             | 1-8            |
| L  | 1349                    | 0    | 1349                            | 0    | 5-8             | 5-8            |

**UNFACTORED REACTIONS**

| JT | 1ST CASE |       | MAX/MIN COMPONENT REACTIONS |           | WIND | DEAD  | SOIL |
|----|----------|-------|-----------------------------|-----------|------|-------|------|
|    | COMBINED | SNOW  | LIVE                        | PERM LIVE |      |       |      |
| G  | 849      | 587/0 | 0/0                         | 0/0       | 0/0  | 263/0 | 0/0  |
| L  | 946      | 656/0 | 0/0                         | 0/0       | 0/0  | 279/0 | 0/0  |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. FURLIN SPACING = 4.86 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

| CHORDS |                           |                           |          |              | WEBS                 |       |                           |              |  |
|--------|---------------------------|---------------------------|----------|--------------|----------------------|-------|---------------------------|--------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LOAD LC1 | MAX CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |  |
| FR-TO  |                           | FROM                      | TO       |              | FR-TO                |       |                           |              |  |
| A-B    | 0/38                      | -102.1                    | -102.1   | 0.14 (1)     | 10.00                | K-C   | -88/59                    | 0.03 (1)     |  |
| B-C    | -1237/0                   | -102.1                    | -102.1   | 0.63 (1)     | 4.86                 | B-K   | 0/1047                    | 0.24 (1)     |  |
| C-D    | -1317/0                   | -102.1                    | -102.1   | 0.35 (1)     | 5.20                 | H-F   | 0/1360                    | 0.31 (1)     |  |
| D-E    | -1317/0                   | -102.1                    | -102.1   | 0.37 (1)     | 5.17                 | C-J   | 0/407                     | 0.03 (1)     |  |
| E-F    | -999/0                    | -102.1                    | -102.1   | 0.35 (1)     | 5.76                 | H-E   | -885/0                    | 0.33 (1)     |  |
| F-G    | -1173/0                   | 0.0                       | 0.0      | 0.52 (1)     | 7.36                 | J-D   | -834/0                    | 0.21 (1)     |  |
| G-H    | -1308/0                   | 0.0                       | 0.0      | 0.13 (1)     | 7.06                 | J-E   | 0/451                     | 0.10 (1)     |  |
| L-K    | 0/0                       | -17.5                     | -17.5    | 0.12 (4)     | 10.00                |       |                           |              |  |
| K-J    | 0/1026                    | -17.5                     | -17.5    | 0.23 (1)     | 10.00                |       |                           |              |  |
| J-I    | 0/999                     | -17.5                     | -17.5    | 0.21 (1)     | 10.00                |       |                           |              |  |
| I-H    | 0/999                     | -17.5                     | -17.5    | 0.21 (1)     | 10.00                |       |                           |              |  |
| H-G    | 0/0                       | -17.5                     | -17.5    | 0.10 (4)     | 10.00                |       |                           |              |  |

**DESIGN CRITERIA**

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2010, CBC 2012  
- CSA C88-09, CSA C88-14  
- TRC 2011, TRC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.67")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.04")  
ALLOWABLE DEFL. (TL) = L/360 (0.67")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.08")

CSI: TC=0.63/1.00 (B-C-1), BC=0.23/1.00 (J-K-1), WB=0.33/1.00 (E-H-1), SF=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

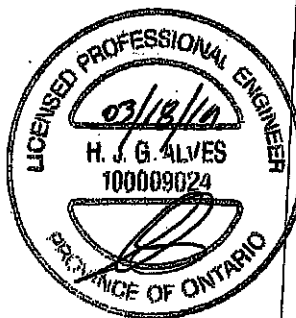
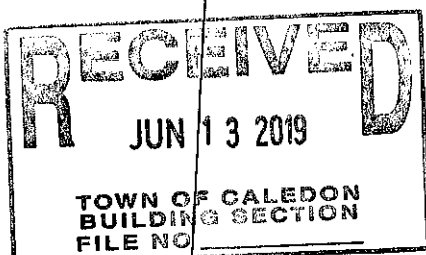
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP (DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1667 1666

PLATE PLACEMENT TOL. = 0.250 inches

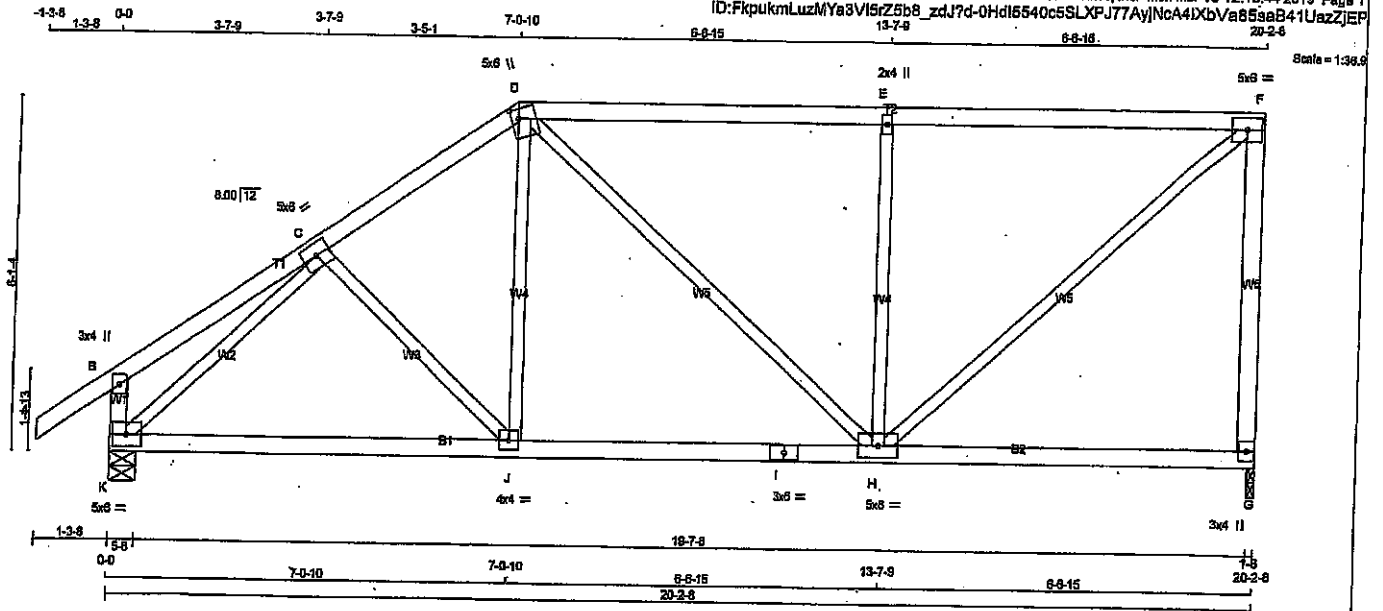
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.77 (B) (INPUT = 0.90)  
JSI METAL= 0.80 (I) (INPUT = 1.00)



DWG NO. TAM 7105354  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401769   | T3         | 2        | 1   | TRUSS DESC. |                  |          |



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

ALL WEBS 2x3 DRY No.2  
EXCEPT

DRY: SEASONED LUMBER.

| PLATES (table in inches) | W    | LEN | Y   | X         |
|--------------------------|------|-----|-----|-----------|
| JT TYPE                  |      |     |     |           |
| B TMV+p                  | MT20 | 3.0 | 4.0 |           |
| C TMWV-4                 | MT20 | 5.0 | 8.0 |           |
| D TTWV+m                 | MT20 | 5.0 | 8.0 | 2.00 1.50 |
| E TMW+V                  | MT20 | 2.0 | 4.0 |           |
| F TMW-4                  | MT20 | 5.0 | 8.0 |           |
| G BMV1+p                 | MT20 | 3.0 | 4.0 |           |
| H BMWVW-4                | MT20 | 5.0 | 8.0 |           |
| I BS-4                   | MT20 | 3.0 | 8.0 |           |
| J BMWV-4                 | MT20 | 4.0 | 4.0 |           |
| K BMVW1-4                | MT20 | 5.0 | 8.0 |           |

#### 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                    | DOWN                            | IN-SX     | IN-SX    |
| G        | 1208                    | 0                               | 1-8       | 1-8      |
| K        | 1349                    | 0                               | 5-8       | 5-8      |

| UNFACTORED REACTIONS | 1ST CASE | MAX/MIN COMPONENT REACTIONS             |
|----------------------|----------|-----------------------------------------|
| JT                   | COMBINED | SNOW LIVE PERM LIVE WIND DEAD SOIL      |
| G                    | 849      | 587 / 0 0 / 0 0 / 0 283 / 0 0 / 0       |
| K                    | 948      | 668 / 0 0 / 0 0 / 0 0 / 0 279 / 0 0 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.81 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

| CHORDS | MEMB.     | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS1 (LC) | MAX. UNBRAC LENGTH | WEBS  | MEMB.     | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |
|--------|-----------|---------------------------|---------------------------|---------------|--------------------|-------|-----------|---------------------------|---------------|
| FR-TO  |           |                           |                           |               |                    | FR-TO |           |                           |               |
| A-B    | 0 / 39    | -102.1                    | -102.1                    | 0.14 (1)      | 10.00              | C-J   | -105 / 18 | 0.04 (1)                  |               |
| B-C    | 0 / 22    | -102.1                    | -102.1                    | 0.19 (1)      | 10.00              | J-D   | 0 / 204   | 0.05 (4)                  |               |
| C-D    | -1188 / 0 | -102.1                    | -102.1                    | 0.22 (1)      | 5.60               | D-H   | 0 / 76    | 0.02 (1)                  |               |
| D-E    | -1029 / 0 | -102.1                    | -102.1                    | 0.82 (1)      | 4.81               | H-E   | -833 / 0  | 0.48 (1)                  |               |
| E-F    | -1029 / 0 | -102.1                    | -102.1                    | 0.82 (1)      | 4.81               | H-F   | 0 / 1868  | 0.31 (1)                  |               |
| G-F    | -1180 / 0 | 0.0                       | 0.0                       | 0.84 (1)      | 7.39               | K-C   | -1458 / 0 | 0.58 (1)                  |               |
| K-B    | -280 / 0  | 0.0                       | 0.0                       | 0.03 (1)      | 7.81               |       |           |                           |               |
| K-J    | 0 / 1044  | -17.5                     | -17.5                     | 0.27 (1)      | 10.00              |       |           |                           |               |
| J-I    | 0 / 972   | -17.5                     | -17.5                     | 0.27 (4)      | 10.00              |       |           |                           |               |
| I-H    | 0 / 972   | -17.5                     | -17.5                     | 0.27 (4)      | 10.00              |       |           |                           |               |
| H-G    | 0 / 0     | -17.5                     | -17.5                     | 0.16 (4)      | 10.00              |       |           |                           |               |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

SPACING = 24.0 IN/CIC

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(55% OF 37.6 P.S.F. - G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.67")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL) = L/360 (0.67")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CS1 TC=0.84/1.00 (F-G:1), BC=0.27/1.00 (H-K:1),  
WB=0.58/1.00 (C-K:1), SS1=0.33/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

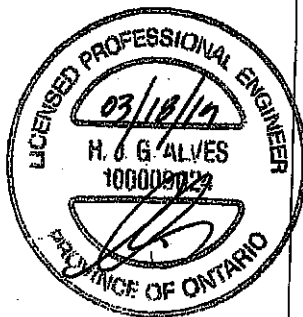
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PS) (PL) (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1867 788 1867 1868

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

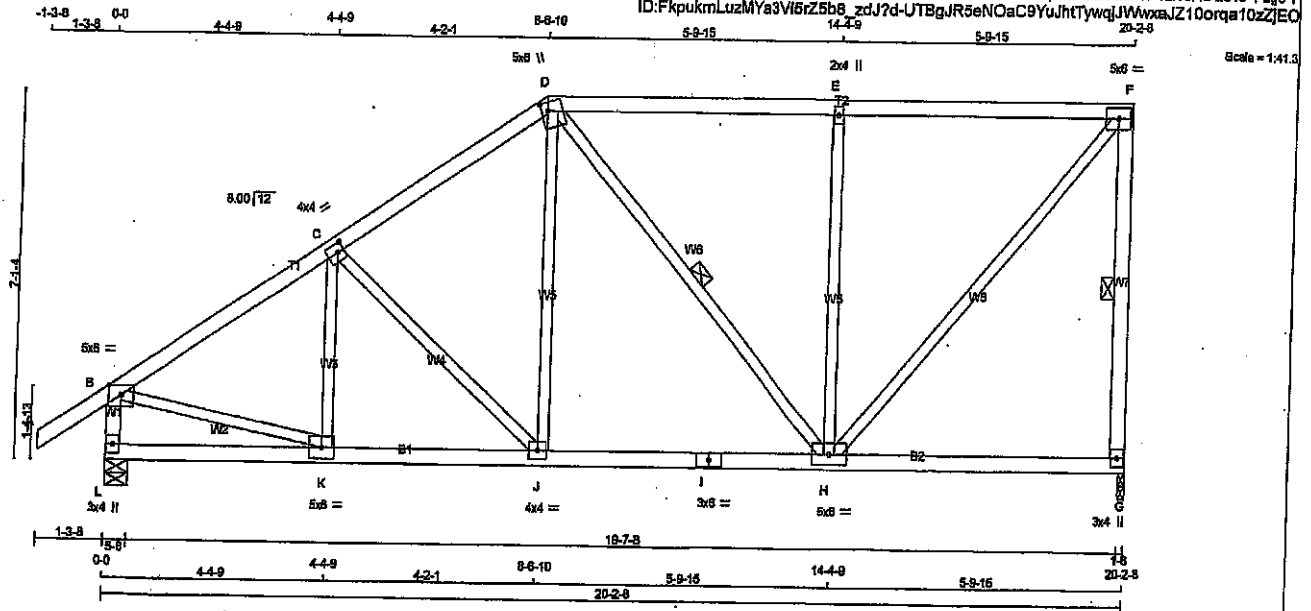
ISI GRIP= 0.73 (H) (INPUT = 0.80)  
ISI METAL= 0.35 (C) (INPUT = 1.00)



DRWG NO. TAM 71905355  
STRUCTURAL  
COMPONENT ONLY

|                                 |                         |                      |                 |                                      |          |
|---------------------------------|-------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>401769</b>       | TRUSS NAME<br><b>T4</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 | TRUSS DESC.                          |          |

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| LUMBER          | N.L.G.A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|-----------------|----------------|--------|------|--------|--------|
| A - D           | 2x4 DRY        | No.2   |      |        |        |
| D - F           | 2x4 DRY        | No.2   |      |        |        |
| G - F           | 2x4 DRY        | No.2   |      |        |        |
| L - B           | 2x4 DRY        | No.2   |      |        |        |
| L - I           | 2x4 DRY        | No.2   |      |        |        |
| J - G           | 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-p  | MT20   | 5.0 | 6.0 | Edge |      |
| C                           | TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D                           | TMVW+m  | MT20   | 5.0 | 6.0 | 2.00 | 1.50 |
| E                           | TMVW-w  | MT20   | 2.0 | 4.0 |      |      |
| F                           | TMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| G                           | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| H                           | BMVWV-t | MT20   | 5.0 | 6.0 |      |      |
| I                           | BS-t    | MT20   | 3.0 | 6.0 |      |      |
| J                           | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| K                           | BMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| L                           | 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                    | DOWN                            | UP        | IN-SX    |
| G        | 1208                    | 0                               | 0         | 1-8      |
| L        | 1349                    | 0                               | 0         | 5-8      |

| UNFACTORED REACTIONS | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |
|----------------------|----------|-------------------------------|
| JT                   | COMBINED | SNOW                          |
| G                    | 849      | 587 / 0                       |
| L                    | 946      | 665 / 0                       |

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

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

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-G, D-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 | FACTORED                 | WEBS            | MAX. FACTORED              |
|--------|---------------|--------------------------|-----------------|----------------------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD LC1 MAX (PLF) | CS1 (LC) UNBRAC | MEMB. FORCE (LBS) CS1 (LC) |
| FR-TO  |               | FROM TO                  | LENGTH          | FR-TO                      |
| A-B    | 0 / 39        | -102.1                   | -102.1 0.14 (1) | 10.00                      |
| B-C    | -1280 / 0     | -102.1                   | -102.1 0.35 (1) | 5.28                       |
| C-D    | -1088 / 0     | -102.1                   | -102.1 0.33 (1) | 5.62                       |
| D-E    | -808 / 0      | -102.1                   | -102.1 0.61 (1) | 5.68                       |
| E-F    | -809 / 0      | -102.1                   | -102.1 0.61 (1) | 5.68                       |
| G-F    | -1167 / 0     | 0.0                      | 0.0 0.27 (1)    | 5.80                       |
| L-B    | -1315 / 0     | 0.0                      | 0.0 0.14 (1)    | 7.05                       |
| L-K    | 0 / 0         | -17.5                    | -17.5 0.07 (4)  | 10.00                      |
| K-J    | 0 / 1098      | -17.5                    | -17.5 0.22 (1)  | 10.00                      |
| J-I    | 0 / 882       | -17.5                    | -17.5 0.22 (1)  | 10.00                      |
| I-H    | 0 / 882       | -17.5                    | -17.5 0.22 (1)  | 10.00                      |
| H-G    | 0 / 0         | -17.5                    | -17.5 0.15 (4)  | 10.00                      |

#### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 28.0 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

**SPACING = 24.0 IN. CG**

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2015, CBC 2012  
- CSA 088-09, CSA 086-14  
- TPC 2011, TPC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.67")  
CALCULATED VERT. DEFL.(LL) = L/889 (0.03")  
ALLOWABLE DEFL.(TL) = L/360 (0.67")  
CALCULATED VERT. DEFL.(TL) = L/889 (0.07")

CS1: TC=0.81/1.00 (E-F:1), BC=0.22/1.00 (J-K:1), WB=0.64/1.00 (E-H:1), SS=0.29/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

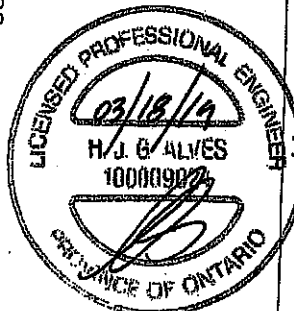
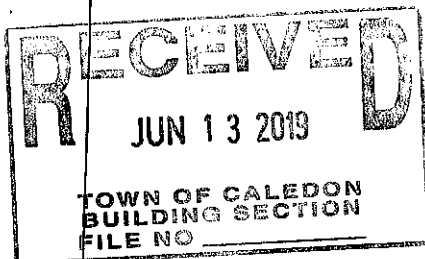
**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1887 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

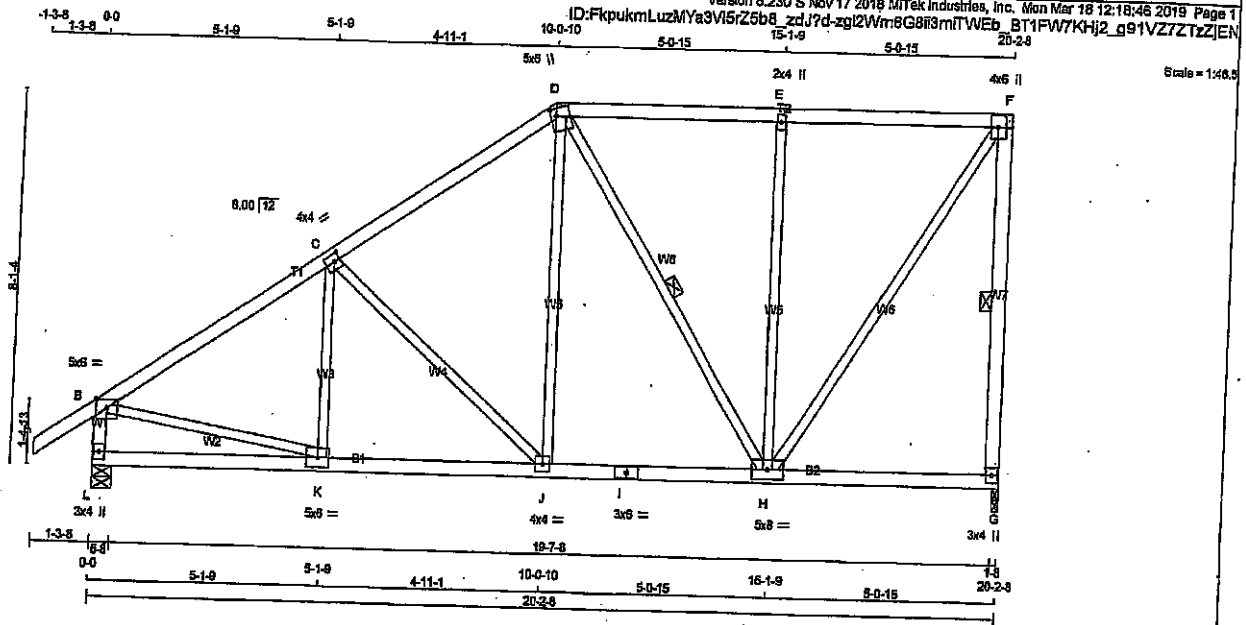
PLATE ROTATION TOL = 5.0 Deg.

J/G GRIP = 0.78 (B) (INPUT = 0.80)  
J/G METAL = 0.31 (I) (INPUT = 1.00)

DRWG NO. TAM **71905356**  
STRUCTURAL  
COMPONENT ONLY



|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 401769                          | T5         | 2        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |



TOTAL WEIGHT = 2 X 89 = 169 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    |        |
| G - F                 | 2x4            | DRY    | No.2 | SPF    |        |
| L - B                 | 2x4            | DRY    | No.2 | SPF    |        |
| L - I                 | 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       | TMVV-p  | MT20 | 5.0 | 8.0 | Edge      |
| C       | TMVV-t  | MT20 | 4.0 | 4.0 | 2.00 1.50 |
| D       | TMVV-t  | MT20 | 5.0 | 6.0 | 2.00 1.50 |
| E       | TMVV-p  | MT20 | 2.0 | 4.0 |           |
| F       | TMVV-p  | MT20 | 4.0 | 6.0 |           |
| G       | BMV1-p  | MT20 | 3.0 | 4.0 |           |
| H       | BMVVW-t | MT20 | 5.0 | 8.0 |           |
| I       | BS-t    | MT20 | 3.0 | 6.0 |           |
| J       | BMVVW-t | MT20 | 4.0 | 4.0 |           |
| K       | BMVVW-t | MT20 | 5.0 | 6.0 |           |
| L       | 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                    | DOWN                            | UP/LIFT   | IN-SX    |
| G        | 1208                    | 0                               | 0         | 1-8      |
| L        | 1349                    | 0                               | 0         | 5-8      |

#### UNFACTORED REACTIONS

| 1ST CASE | MAX/MIN. COMPONENT REACTIONS | 2ND CASE | MAX/MIN. COMPONENT REACTIONS |
|----------|------------------------------|----------|------------------------------|
| JT       | COMBINED                     | SNOW     | LIVE                         |
| G        | 848                          | 587/0    | 0/0                          |
| L        | 946                          | 668/0    | 0/0                          |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.02 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-G, D-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 MEMB. FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC) | MAX. FACTORED UNBRACED LENGTH (FT) | WEBS  | MAX. FACTORED MEMB. FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC) |
|--------|---------------------------------|---------------------------|-------------------------------|------------------------------------|-------|---------------------------------|-------------------------------|
| FR-TO  |                                 |                           |                               |                                    | FR-TO |                                 |                               |
| A-B    | 0/39                            | -102.1                    | -102.1                        | 0.14 (1)                           | 10.00 | K-C                             | -135/42                       |
| B-C    | -1284/0                         | -102.1                    | -102.1                        | 0.50 (1)                           | 5.02  | C-J                             | -433/0                        |
| C-D    | -877/0                          | -102.1                    | -102.1                        | 0.47 (1)                           | 5.82  | J-D                             | 0/373                         |
| D-E    | -858/0                          | -102.1                    | -102.1                        | 0.46 (1)                           | 6.25  | D-H                             | -278/0                        |
| E-F    | -857/0                          | -102.1                    | -102.1                        | 0.45 (1)                           | 6.25  | H-E                             | -641/0                        |
| G-F    | -1171/0                         | 0.0                       | 0.0                           | 0.35 (1)                           | 3.90  | H-F                             | 0/1162                        |
| L-B    | -1311/0                         | 0.0                       | 0.0                           | 0.14 (1)                           | 7.08  | B-K                             | 0/1129                        |
| L-K    | 0/0                             | -17.5                     | -17.5                         | 0.11 (4)                           | 10.00 |                                 |                               |
| K-J    | 0/1105                          | -17.5                     | -17.5                         | 0.23 (1)                           | 10.00 |                                 |                               |
| J-I    | 0/787                           | -17.5                     | -17.5                         | 0.18 (1)                           | 10.00 |                                 |                               |
| I-H    | 0/787                           | -17.5                     | -17.5                         | 0.18 (1)                           | 10.00 |                                 |                               |
| H-G    | 0/0                             | -17.5                     | -17.5                         | 0.11 (4)                           | 10.00 |                                 |                               |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

SPACING = 24.0 IN. G/G

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(95 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.67")  
CALCULATED VERT. DEFL.(LL) =  $L/899$  (0.03")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.67")  
CALCULATED VERT. DEFL.(TL) =  $L/899$  (0.07")

CSI: TC=0.50/1.00 (B-C:1), BC=0.23/1.00 (J-K:1), WB=0.81/1.00 (E-H:1), SS=0.25/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

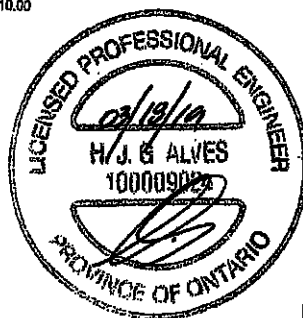
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.77 (B) (INPUT = 0.80)  
JSI METAL= 0.29 (F) (INPUT = 1.00)

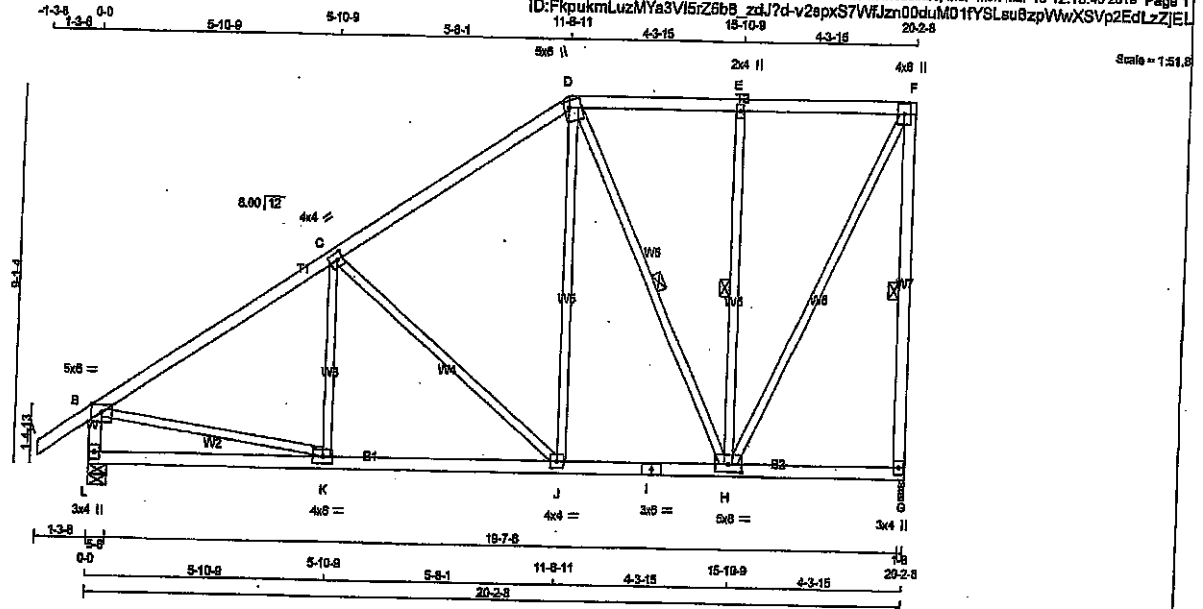


DRWG NO. TAM 1905357  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401769   | T6         | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 105 = 210 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    |
| G - I             | 2x4    | DRY  | No.2   | SPF    |
| L - J             | 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 TMVW-p  | MT20   | 5.0 | 8.0 | Edge |      |
| C TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D TMVW-m  | MT20   | 5.0 | 8.0 | 2.00 | 1.50 |
| E TMVW-w  | MT20   | 2.0 | 4.0 |      |      |
| F TMVW-v  | MT20   | 4.0 | 6.0 |      |      |
| G BMV1-p  | MT20   | 3.0 | 4.0 |      |      |
| H BMVWV-t | MT20   | 5.0 | 8.0 | 2.25 | 4.00 |
| I BS-t    | MT20   | 3.0 | 8.0 |      |      |
| J BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| K BMVW-t  | MT20   | 4.0 | 6.0 |      |      |
| L 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                    | DOWN                            | IN-SX     | IN-SX    |
| G  | 1208                    | 0                               | 0         | 0        |
| L  | 1349                    | 0                               | 0         | 0        |

##### UNFACTORED REACTIONS

|    | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |      |            |      |       |      |
|----|----------|-------------------------------|------|------------|------|-------|------|
| JT | COMBINED | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
| G  | 849      | 587/0                         | 0/0  | 0/0        | 0/0  | 283/0 | 0/0  |
| L  | 946      | 666/0                         | 0/0  | 0/0        | 0/0  | 279/0 | 0/0  |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.09 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS  |                           |                           |          |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) |          |
| FR-TO  |                           | FROM TO                   | CSI (LC)                  | FR-TO |                           | FROM TO                   | CSI (LC) |
| A-B    | 0/39                      | -102.1 -102.1             | 0.14 (1)                  | K-C   | -87/71                    | 0.04 (1)                  |          |
| B-C    | -1285/0                   | -102.1 -102.1             | 0.48 (1)                  | C-J   | -560/0                    | 0.66 (1)                  |          |
| C-D    | -957/0                    | -102.1 -102.1             | 0.45 (1)                  | J-D   | 0/461                     | 0.10 (1)                  |          |
| D-E    | -497/0                    | -102.1 -102.1             | 0.24 (1)                  | D-H   | -425/0                    | 0.29 (1)                  |          |
| E-F    | -498/0                    | -102.1 -102.1             | 0.24 (1)                  | H-E   | -544/0                    | 0.29 (1)                  |          |
| G-F    | -1176/0                   | 0.0 0.0                   | 0.45 (1)                  | H-F   | 0/1120                    | 0.25 (1)                  |          |
| L-B    | -1308/0                   | 0.0 0.0                   | 0.13 (1)                  | B-K   | 0/1120                    | 0.25 (1)                  |          |
| L-K    | 0/0                       | -17.5 -17.5               | 0.15 (4)                  |       |                           |                           |          |
| K-J    | 0/1101                    | -17.5 -17.5               | 0.25 (1)                  |       |                           |                           |          |
| J-I    | 0/664                     | -17.5 -17.5               | 0.15 (1)                  |       |                           |                           |          |
| I-H    | 0/664                     | -17.5 -17.5               | 0.15 (1)                  |       |                           |                           |          |
| H-G    | 0/0                       | -17.5 -17.5               | 0.07 (4)                  |       |                           |                           |          |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

SPACING = 24.0 IN. GC

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2010, CBC 2012  
- CSA 086-08, CSA 086-14  
- TPIC 2011, TPIC 2014

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.67")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL) = L/360 (0.67")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.48/1.00 (B-C:1), BC=0.25/1.00 (J-K:1), WB=0.68/1.00 (C-J:1), SS=0.24/1.00 (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

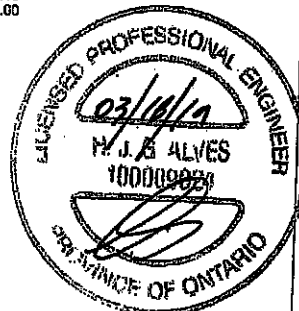
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) (PSI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1667 788 1887 1656

PLATE PLACEMENT TOL. = 0.250 inches

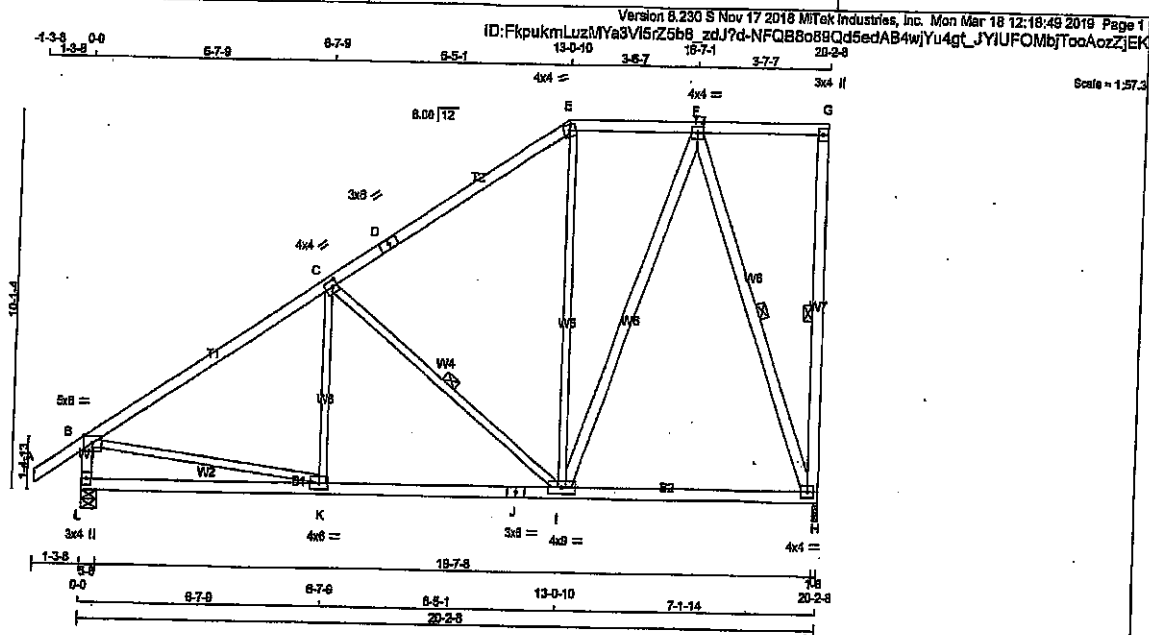
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.77 (B) (INPUT = 0.90)  
JSI METAL= 0.28 (K) (INPUT = 1.00)



DRWG NO. TAM 11905358  
STRUCTURAL  
COMPONENT ONLY

|                                 |                         |                      |                 |                                      |          |
|---------------------------------|-------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>401769</b>       | TRUSS NAME<br><b>T7</b> | QUANTITY<br><b>3</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 | TRUSS DESC.                          |          |



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ID: FkpkumLuzMYa3V15rZ5b8 zdJ7d-NFQ88o88Qd5edAB4wJYu4gt\_JYUfOMbJTooAozZJEK

| 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   |
| H - G           | 2x4    | DRY  | No.2   |
| L - B           | 2x4    | DRY  | No.2   |
| L - J           | 2x4    | DRY  | No.2   |
| J - H           | 2x4    | DRY  | No.2   |
| ALL WEBS EXCEPT | 2x3    | DRY  | No.2   |
| I - F           | 2x4    | DRY  | No.2   |
| F - H           | 2x4    | DRY  | No.2   |

DRY, SEASONED LUMBER.

| PLATES (Table is in inches) |        |     |     |           |
|-----------------------------|--------|-----|-----|-----------|
| JT TYPE                     | PLATES | W   | LEN | Y X       |
| B TMVW-p                    | MT20   | 5.0 | 6.0 | Edge      |
| 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 TMVW-t                    | MT20   | 4.0 | 4.0 |           |
| G TMV-p                     | MT20   | 3.0 | 4.0 |           |
| H BMVW-t                    | MT20   | 4.0 | 4.0 |           |
| I BMVW-t                    | MT20   | 4.0 | 4.0 |           |
| J BS-t                      | MT20   | 3.0 | 6.0 |           |
| K BMVW-t                    | MT20   | 4.0 | 6.0 |           |
| L BMV-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**

| FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG |       | REQD BRG |       |
|-------------------------|------|---------------------------------|------|-----------|-------|----------|-------|
| JT                      | VERT | JT                              | DOWN | IN-SX     | IN-SX | JT       | IN-SX |
| H                       | 1208 | 0                               | 1208 | 0         | 0     | 1-8      | 1-8   |
| L                       | 1349 | 0                               | 1349 | 0         | 0     | 5-8      | 5-8   |

| UNFACTORED REACTIONS |          | MAX/MIN. COMPONENT REACTIONS |       | WIND  |            | DEAD    |       | SOIL  |       |
|----------------------|----------|------------------------------|-------|-------|------------|---------|-------|-------|-------|
| JT                   | COMBINED | JT                           | SNOW  | JT    | PERM. LIVE | JT      | WIND  | JT    | DEAD  |
| H                    | 848      | 587 / 0                      | 0 / 0 | 0 / 0 | 0 / 0      | 263 / 0 | 0 / 0 | 0 / 0 | 0 / 0 |
| L                    | 948      | 686 / 0                      | 0 / 0 | 0 / 0 | 0 / 0      | 279 / 0 | 0 / 0 | 0 / 0 | 0 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.85 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-H, C-I, 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 |             | FACTORED         |                 | WEBS  |             | FACTORED   |            |
|--------|-------------|------------------|-----------------|-------|-------------|------------|------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | MAX. (LC1)      | MEMB. | FORCE (LBS) | MAX. (LC1) | MAX. (LC1) |
| FR-TO  |             | FROM TO          |                 | FR-TO |             |            |            |
| A-B    | 0 / 39      | -102.1           | -102.1 0.14 (1) | 10.00 | K-C         | -56 / 85   | 0.03 (4)   |
| B-C    | -1282 / 0   | -102.1           | -102.1 0.63 (1) | 4.85  | C-I         | -873 / 0   | 0.34 (1)   |
| C-D    | -736 / 0    | -102.1           | -102.1 0.58 (1) | 6.02  | I-E         | 0 / 57     | 0.02 (4)   |
| D-E    | -736 / 0    | -102.1           | -102.1 0.58 (1) | 6.02  | B-K         | 0 / 1102   | 0.25 (1)   |
| E-F    | -573 / 0    | -102.1           | -102.1 0.17 (1) | 6.25  | I-F         | 0 / 599    | 0.10 (1)   |
| F-G    | 0 / 0       | -102.1           | -102.1 0.22 (1) | 10.00 | F-H         | -1085 / 0  | 0.62 (1)   |
| H-G    | -141 / 0    | 0.0              | 0.0 0.07 (1)    | 8.25  |             |            |            |
| L-B    | -1300 / 0   | 0.0              | 0.0 0.13 (1)    | 7.08  |             |            |            |
| L-K    | 0 / 0       | -17.5            | -17.5 0.17 (4)  | 10.00 |             |            |            |
| K-J    | 0 / 1088    | -17.5            | -17.5 0.29 (1)  | 10.00 |             |            |            |
| J-I    | 0 / 1088    | -17.5            | -17.5 0.29 (1)  | 10.00 |             |            |            |
| I-H    | 0 / 375     | -17.5            | -17.5 0.22 (4)  | 10.00 |             |            |            |

TOTAL WEIGHT = 3 X 110 = 330 lb

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 29.0 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.67")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
ALLOWABLE DEFL.(TL) = L/360 (0.67")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.63/1.00 (B-C-1), BC=0.29/1.00 (I-K-1), WB=0.82/1.00 (F-H-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

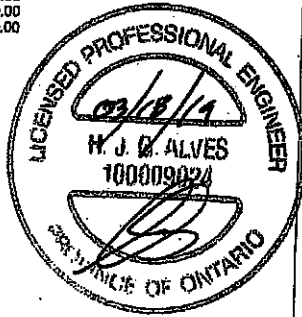
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 254 1667 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

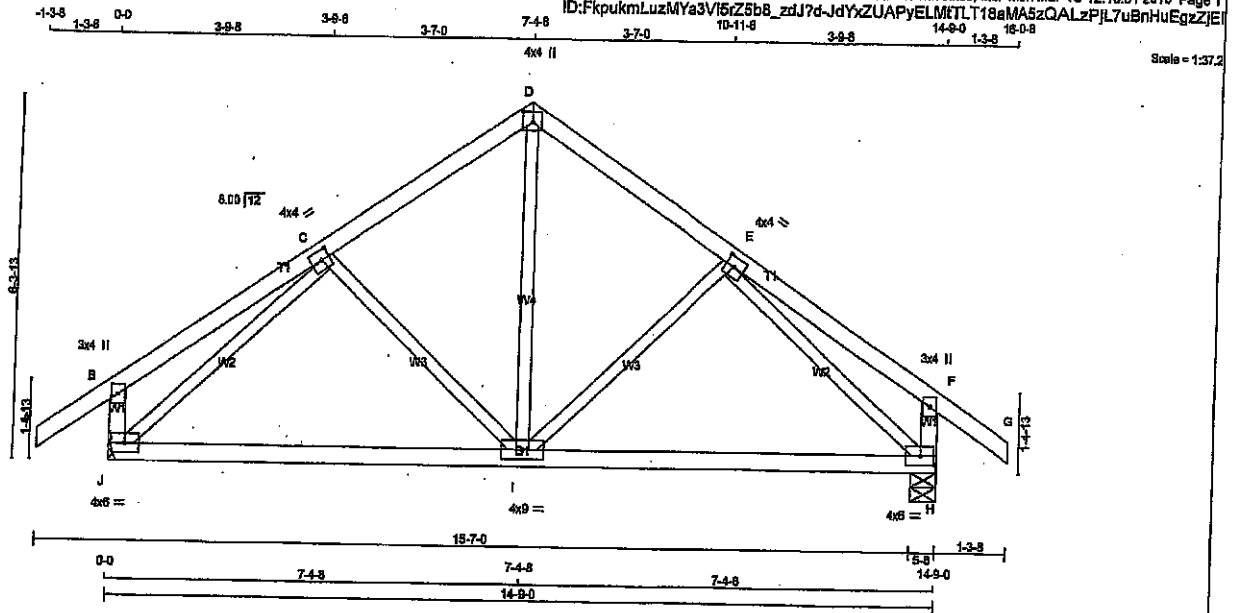
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.77 (B) (INPUT = 0.90)  
JSI METAL= 0.38 (J) (INPUT = 1.00)



DRWG NO. TAM **17905359**  
STRUCTURAL  
COMPONENT ONLY

|                                 |                         |                      |                 |                                      |          |
|---------------------------------|-------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>401769</b>       | TRUSS NAME<br><b>T8</b> | QUANTITY<br><b>4</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 | TRUSS DESC.                          |          |



TOTAL WEIGHT = 4 X 83 = 253 lb

#### LUMBER

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

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

#### DESCR.

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| SPF | SPF | SPF | SPF | SPF |
| JT  | JT  | JT  | JT  | JT  |
| H   | H   | H   | H   | H   |

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

##### BEARINGS

| FACTORED       | MAXIMUM FACTORED | INPUT | REQD  |
|----------------|------------------|-------|-------|
| GROSS REACTION | GROSS REACTION   | BRG   | BRG   |
| JT VERT        | JT VERT          | IN-SX | IN-SX |
| JT 1022 0      | 1022 0           | 0     | 5-8   |
| H 1022 0       | 1022 0           | 0     | 5-8   |

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

##### UNFACTORED REACTIONS

| 1ST LCASE    | MAX/MIN. COMPONENT REACTIONS | WIND        | DEAD        | SOIL        |
|--------------|------------------------------|-------------|-------------|-------------|
| JT COMBINED  | JT COMBINED                  | JT COMBINED | JT COMBINED | JT COMBINED |
| JT 716 508/0 | 716 508/0                    | 0/0         | 208/0       | 0/0         |
| H 716 508/0  | 716 508/0                    | 0/0         | 208/0       | 0/0         |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) |
|--------|--------|---------------------------|---------------------------|---------------------------|-------|-------|---------------------------|---------------------------|
| FR-TO  | FR-TO  | FR-TO                     | FR-TO                     | FR-TO                     | FR-TO | FR-TO | FR-TO                     | FR-TO                     |
| A-B    | 0/39   | -102.1                    | -102.1                    | 0.14 (1)                  | 10.00 | I-D   | 0/456                     | 0.10 (1)                  |
| B-C    | 0/24   | -102.1                    | -102.1                    | 0.22 (1)                  | 10.00 | E-E   | -215/0                    | 0.09 (1)                  |
| C-D    | -898/0 | -102.1                    | -102.1                    | 0.17 (1)                  | 6.25  | C-I   | -215/0                    | 0.09 (1)                  |
| D-E    | -698/0 | -102.1                    | -102.1                    | 0.17 (1)                  | 6.25  | J-C   | -993/0                    | 0.41 (1)                  |
| E-F    | 0/24   | -102.1                    | -102.1                    | 0.22 (1)                  | 10.00 | E-H   | -993/0                    | 0.41 (1)                  |
| F-G    | 0/39   | -102.1                    | -102.1                    | 0.14 (1)                  | 10.00 |       |                           |                           |
| J-B    | -285/0 | 0.0                       | 0.0                       | 0.03 (1)                  | 7.81  |       |                           |                           |
| H-F    | -285/0 | 0.0                       | 0.0                       | 0.03 (1)                  | 7.81  |       |                           |                           |
| J-I    | 0/716  | -17.5                     | -17.5                     | 0.32 (4)                  | 10.00 |       |                           |                           |
| I-H    | 0/716  | -17.5                     | -17.5                     | 0.32 (4)                  | 10.00 |       |                           |                           |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 29.0 PSF |
| DL         | = 6.0 PSF  |
| BOT CH. LL | = 0.0 PSF  |
| DL         | = 7.0 PSF  |
| TOTAL LOAD | = 42.0 PSF |

SPACING = 24.0 IN/C

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

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

(65% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.49")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.49")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.22/1.00 (B-C:1), BC=0.32/1.00 (I-H:4), WB=0.41/1.00 (E-H:1), SS=0.15/1.00 (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.

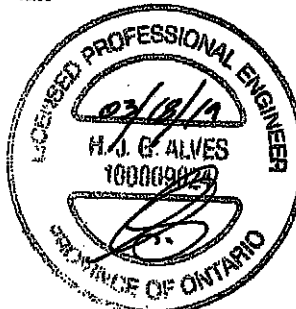
##### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR (PSI)                | SECTION (PLI) |
|-----------------|----------------------------|---------------|
| MT20            | 618 354 1657 788 1997 1656 |               |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 8.0 Deg.

JSI GRIP= 0.72 (C) (INPUT = 0.80)  
JSI METAL= 0.35 (C) (INPUT = 1.00)

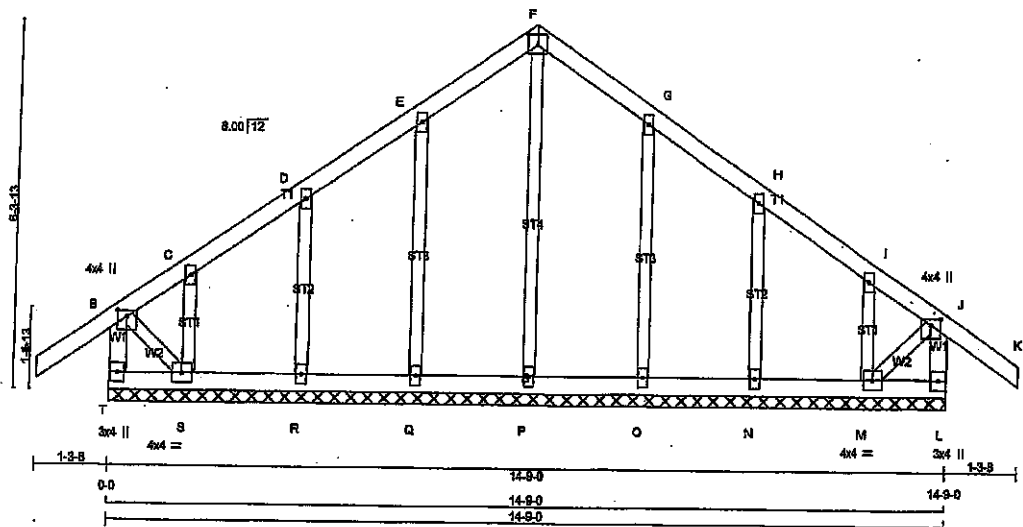


DRWG NO. TAM 17905360  
STRUCTURAL  
COMPONENT ONLY

|                                 |                         |                      |                 |                                      |          |
|---------------------------------|-------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>401769</b>       | TRUSS NAME<br><b>G8</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 | TRUSS DESC.                          |          |

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Scale = 1:35.8



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

GABLE STUDS SPACED AT 2'-0" O.C.

#### PLATES (table in inches)

| JT TYPE          | PLATES | W   | LEN | Y    | X    |
|------------------|--------|-----|-----|------|------|
| B TMVW+p         | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| C, D, E, G, H, I |        |     |     |      |      |
| C TMVW+w         | MT20   | 2.0 | 4.0 |      |      |
| F TMVW+p         | MT20   | 4.0 | 4.0 | 2.25 | 2.00 |
| J TMVW+p         | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| L BMV1+p         | MT20   | 3.0 | 4.0 |      |      |
| M BMVW1-i        | MT20   | 4.0 | 4.0 |      |      |
| N, O, P, Q, R    |        |     |     |      |      |
| N BMV1+w         | MT20   | 2.0 | 4.0 |      |      |
| S BMVW1-i        | MT20   | 4.0 | 4.0 |      |      |
| T BMV1+p         | MT20   | 3.0 | 4.0 |      |      |

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

##### BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.  
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.  
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS  |                           |                           |          |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |          |
| FR-TO  |                           | FROM TO                   | CSI (LC)                  | FR-TO |                           |                           |          |
| T-B    | -303/0                    | 0.0 0.0                   | 0.03 (1)                  | P-F   | -160/0                    | 7.51                      | 0.10 (1) |
| A-B    | 0/39                      | -102.1 -102.1             | 0.14 (1)                  | Q-E   | -228/0                    | 10.00                     | 0.08 (1) |
| B-C    | -82/0                     | -102.1 -102.1             | 0.13 (1)                  | R-D   | -211/0                    | 8.25                      | 0.05 (1) |
| C-D    | -14/0                     | -102.1 -102.1             | 0.05 (1)                  | S-C   | -38/0                     | 6.25                      | 0.01 (1) |
| D-E    | -13/0                     | -102.1 -102.1             | 0.05 (1)                  | O-G   | -228/0                    | 8.25                      | 0.08 (1) |
| E-F    | -22/0                     | -102.1 -102.1             | 0.05 (1)                  | N-H   | -211/0                    | 8.25                      | 0.05 (1) |
| F-G    | -22/0                     | -102.1 -102.1             | 0.05 (1)                  | M-I   | -88/0                     | 6.25                      | 0.01 (1) |
| G-H    | -13/0                     | -102.1 -102.1             | 0.05 (1)                  | B-S   | 0/27                      | 8.25                      | 0.01 (1) |
| H-I    | -14/0                     | -102.1 -102.1             | 0.05 (1)                  | M-J   | 0/27                      | 6.25                      | 0.01 (1) |
| I-J    | -62/0                     | -102.1 -102.1             | 0.13 (1)                  |       |                           |                           |          |
| J-K    | 0/39                      | -102.1 -102.1             | 0.14 (1)                  |       |                           |                           |          |
| L-J    | -303/0                    | 0.0 0.0                   | 0.03 (1)                  |       |                           |                           |          |
| T-S    | 0/0                       | -17.5 -17.5               | 0.01 (4)                  |       |                           |                           |          |
| S-R    | 0/18                      | -17.5 -17.5               | 0.01 (4)                  |       |                           |                           |          |
| R-Q    | 0/12                      | -17.5 -17.5               | 0.01 (4)                  |       |                           |                           |          |
| Q-P    | 0/8                       | -17.5 -17.5               | 0.01 (4)                  |       |                           |                           |          |
| P-O    | 0/8                       | -17.5 -17.5               | 0.01 (4)                  |       |                           |                           |          |
| O-N    | 0/12                      | -17.5 -17.5               | 0.01 (4)                  |       |                           |                           |          |
| N-M    | 0/18                      | -17.5 -17.5               | 0.01 (4)                  |       |                           |                           |          |
| M-L    | 0/0                       | -17.5 -17.5               | 0.01 (4)                  |       |                           |                           |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

SPACING = 24.0 IN. O.C.

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2010, NBC 2012  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(65 % OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.14/1.00 (A-B:1), BC=0.01/1.00 (M-N:4),  
WB=0.10/1.00 (F-P:1), SS=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

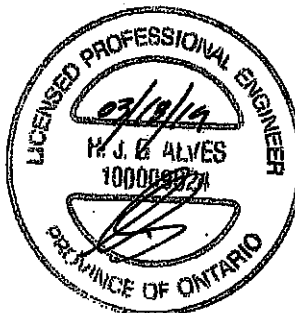
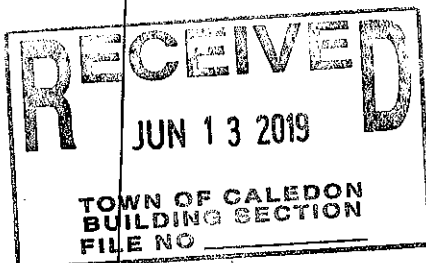
##### NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1997 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (J) (INPUT = 0.50)  
JSI METAL= 0.12 (G) (INPUT = 1.00)



DRWG NO. TAM 71905361  
STRUCTURAL  
COMPONENT ONLY

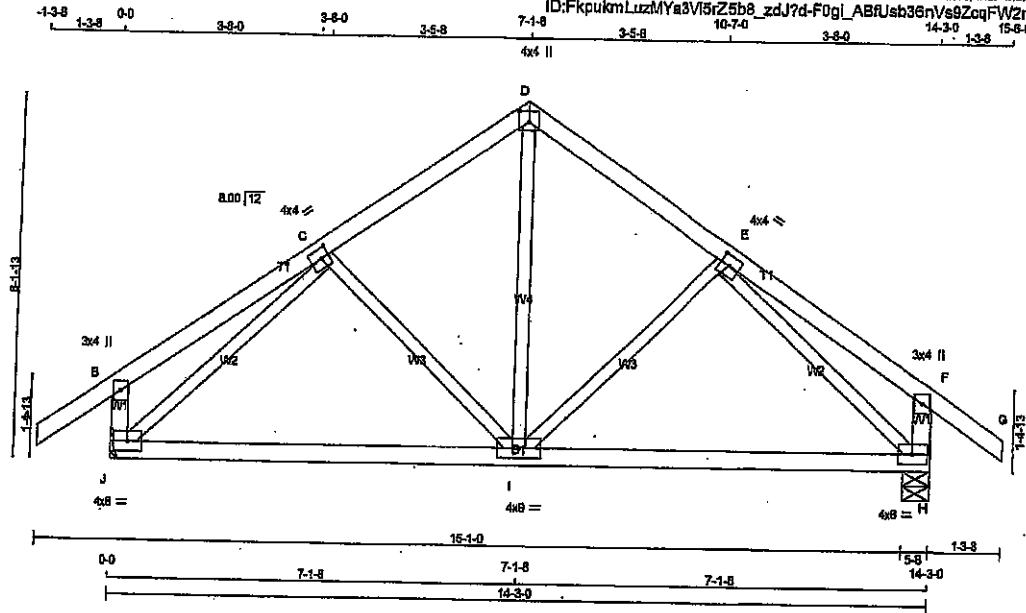
|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401769   | T9         | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1/20.3



#### LUMBER

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

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

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| C  | TMVW+1 | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TTW+p  | MT20   | 4.0 | 4.0 | 2.25 | 2.00 |
| E  | TMVW+1 | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| F  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVW+1 | MT20   | 4.0 | 6.0 |      |      |
| I  | BMVW+1 | MT20   | 4.0 | 9.0 |      |      |
| J  | BMVW+1 | MT20   | 4.0 | 6.0 |      |      |

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

##### BEARINGS

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQD   |
|----|----------------|------------------|-------|--------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
| JT | VERT           | DOWN             | HORIZ | UPLIFT |
| J  | 992            | 0                | 0     | 0      |
| H  | 992            | 0                | 0     | 0      |

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

##### UNFACTORED REACTIONS

| JT | COMBINED | SNOW    | LIVE  | PERM LIVE | WIND  | DEAD    | SOIL  |
|----|----------|---------|-------|-----------|-------|---------|-------|
| J  | 695      | 493 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 202 / 0 | 0 / 0 |
| H  | 695      | 493 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 202 / 0 | 0 / 0 |

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

##### BRACINGS

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 / 39                    | -102.1 -102.1             | 0.14 (1)      | 10.00    | I-D                       | 0 / 435       | 0.10 (1) |
| B-C    | 0 / 23                    | -102.1 -102.1             | 0.20 (1)      | 10.00    | I-E                       | -203 / 0      | 0.08 (1) |
| C-D    | -570 / 0                  | -102.1 -102.1             | 0.18 (1)      | 6.25     | C-I                       | -203 / 0      | 0.08 (1) |
| D-E    | -570 / 0                  | -102.1 -102.1             | 0.18 (1)      | 6.25     | J-C                       | -954 / 0      | 0.37 (1) |
| E-F    | 0 / 23                    | -102.1 -102.1             | 0.20 (1)      | 10.00    | E-H                       | -954 / 0      | 0.37 (1) |
| F-G    | 0 / 39                    | -102.1 -102.1             | 0.14 (1)      | 10.00    |                           |               |          |
| J-B    | -280 / 0                  | 0.0                       | 0.0           | 0.03 (1) | 7.81                      |               |          |
| H-F    | -280 / 0                  | 0.0                       | 0.0           | 0.03 (1) | 7.81                      |               |          |
| J-I    | 0 / 684                   | -17.5                     | -17.5         | 0.30 (4) | 10.00                     |               |          |
| I-H    | 0 / 684                   | -17.5                     | -17.5         | 0.30 (4) | 10.00                     |               |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 28.0 PSF |
| DL         | = 8.0 PSF  |
| BOT CH. LL | = 0.0 PSF  |
| DL         | = 7.0 PSF  |
| TOTAL LOAD | = 42.0 PSF |

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLIES WITH:

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

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/380 (0.47")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.02")  
ALLOWABLE DEFL. (TL) = L/380 (0.47")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.08")

CSI: TC=0.20/1.00 (B-C:1), BC=0.30/1.00 (I-J:4), WB=0.37/1.00 (C-I:1), SS=0.16/1.00 (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.

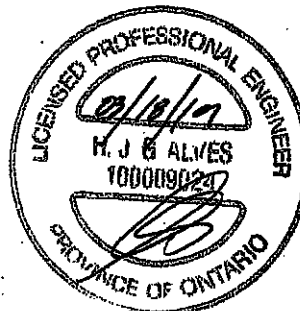
##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
|       | (PSI)     | (PL)  | (PL)    |
| MT20  | 618       | 354   | 1667    |
|       | 788       | 1667  | 1667    |

PLATE PLACEMENT TOL. = 0.250 inches

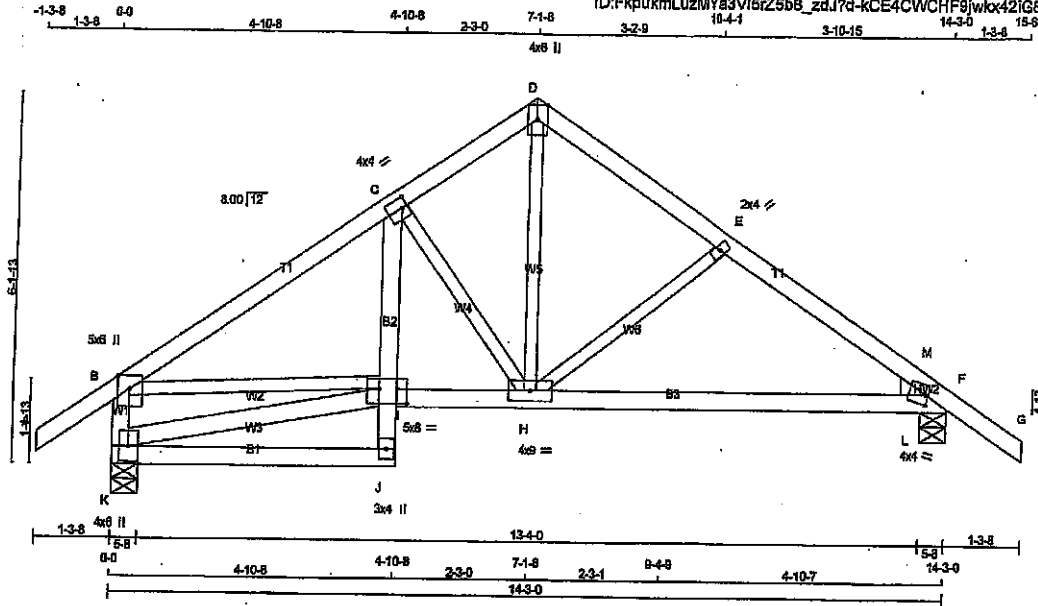
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.70 (E) (INPUT = 0.90)  
JSI METAL= 0.34 (C) (INPUT = 1.00)



DRWG NO. TAM T905363  
STRUCTURAL  
COMPONENT ONLY

|                                 |                          |                                                                                                                                                                |                 |                                      |          |
|---------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>401769</b>       | TRUSS NAME<br><b>T9S</b> | QUANTITY<br><b>2</b>                                                                                                                                           | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          | Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 12:18:54 2019 Page 1<br>ID: FkpukmLuzMYa3V16zZ5b8_zdJ7d-kCE4CWCHf9jwX42IG83njbWUZ0KwCLIVYr7zZJEF |                 |                                      |          |



Scale = 1/32"

TOTAL WEIGHT = 2 X 64 = 128 lb

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

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT. TYPE  | PLATES | W   | LEN | Y    | X    |
|-----------|--------|-----|-----|------|------|
| B TMVW+p  | MT20   | 5.0 | 6.0 | Edge |      |
| C TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.00 |
| D TTW+p   | MT20   | 4.0 | 6.0 | Edge |      |
| E TMW+w   | MT20   | 2.0 | 4.0 |      |      |
| F TMBH-m  | MT20   | 4.0 | 4.0 | 2.00 | 0.50 |
| H BMVWV-t | MT20   | 4.0 | 9.0 |      |      |
| I BMVWV-t | MT20   | 5.0 | 8.0 | 3.00 | 5.50 |
| J BMV+p   | MT20   | 3.0 | 4.0 |      |      |
| K BMVW1+p | MT20   | 4.0 | 8.0 |      |      |

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

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

| FACTORED |      | MAXIMUM FACTORED |      | INPUT |       | REQD |       | HEEL  |  |
|----------|------|------------------|------|-------|-------|------|-------|-------|--|
| JT       | VERT | GROSS REACTION   | DOWN | BRG   | IN-SX | BRG  | IN-SX | WEDGE |  |
| K        | 992  | 0                | 992  | 0     | 5-8   | 5-8  | 5-8   | 2x4 R |  |
| F        | 992  | 0                | 992  | 0     | 5-8   | 5-8  | 5-8   | 2x4 R |  |

#### UNFACTORED REACTIONS

| JT | COMBINED | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|----------|---------|-------|-----------|-------|---------|-------|
| K  | 685      | 493 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 202 / 0 | 0 / 0 |
| F  | 685      | 493 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 202 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.75 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 (LBS) | MAX. LENGTH (LBS) | MEMB. | FORCE (LBS) | MAX. LENGTH (LBS) | MEMB.    |
| FR-TO  |             |                  |                   | FR-TO |             |                   |          |
| A-B    | 0 / 39      | -102.1           | -102.1 0.14 (1)   | 10.00 | K-I         | -21 / 0           | 0.01 (1) |
| B-C    | -1043 / 0   | -102.1           | -102.1 0.28 (1)   | 5.82  | B-I         | 0 / 887           | 0.20 (1) |
| C-D    | -818 / 0    | -102.1           | -102.1 0.21 (1)   | 6.25  | H-D         | 0 / 689           | 0.45 (1) |
| D-E    | -785 / 0    | -102.1           | -102.1 0.15 (1)   | 6.25  | C-H         | -421 / 0          | 0.11 (1) |
| E-M    | -1093 / 0   | -102.1           | -102.1 0.15 (1)   | 5.88  | H-E         | -372 / 0          | 0.11 (1) |
| M-F    | -1230 / 0   | -102.1           | -102.1 0.08 (4)   | 5.75  | L-M         | 0 / 113           | 0.00 (1) |
| F-G    | 0 / 36      | -102.1           | -102.1 0.14 (1)   | 10.00 |             |                   |          |
| K-B    | -947 / 0    | 0.0              | 0.0 0.10 (1)      | 7.81  |             |                   |          |
| K-J    | 0 / 20      | -17.5            | -17.5 0.12 (4)    | 10.00 |             |                   |          |
| J-I    | 0 / 48      | 0.0              | 0.0 0.03 (1)      | 10.00 |             |                   |          |
| I-C    | 0 / 35      | 0.0              | 0.0 0.03 (1)      | 10.00 |             |                   |          |
| I-H    | 0 / 889     | -17.5            | -17.5 0.24 (1)    | 10.00 |             |                   |          |
| H-L    | 0 / 833     | -17.5            | -17.5 0.24 (1)    | 10.00 |             |                   |          |
| L-F    | 0 / 933     | -17.5            | -17.5 0.16 (1)    | 10.00 |             |                   |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 29.0 PSF |
| DL         | = 6.0 PSF  |
| BOT CH. LL | = 0.0 PSF  |
| DL         | = 7.0 PSF  |
| TOTAL LOAD | = 42.0 PSF |

##### SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, OBC 2012  
- CSA 088-08, CSA 088-14  
- TPIC 2011, TPIC 2014

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.48")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.03")  
ALLOWABLE DEFL. (TL) = L/360 (0.48")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.08")

CSI: TC=0.28/1.00 (B-C:1), BC=0.24/1.00 (H-L:1),  
WB=0.20/1.00 (B-I:1), SSI=0.18/1.00 (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)   |
| MT20            | 618   | 354     |
|                 | 1667  | 788     |
|                 | 1987  | 1656    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

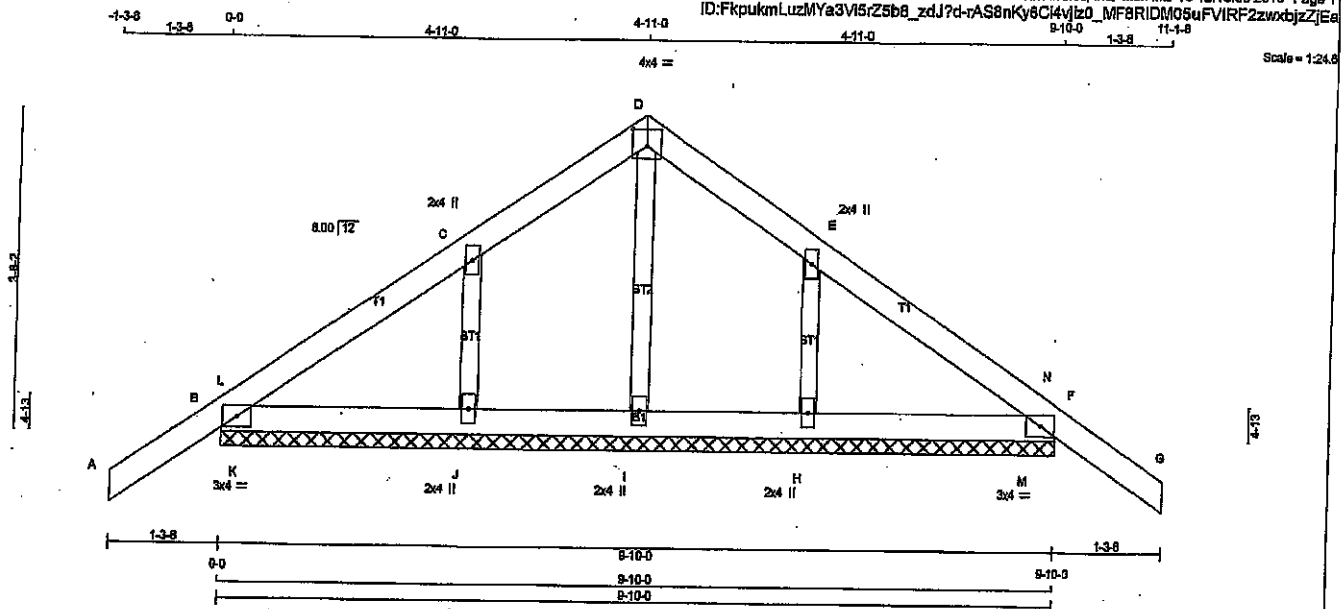
JSI GRIP = 0.78 (F) (INPUT = 0.90)  
JSI METAL = 0.47 (F) (INPUT = 1.00)



DRWG NO. TAM 71905364  
STRUCTURAL  
COMPONENT ONLY

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>401769</b>       | TRUSS NAME<br><b>G10</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                          |          |

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TOTAL WEIGHT = 34 lb

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

| PLATES (table is in inches) |        |     |     |           |
|-----------------------------|--------|-----|-----|-----------|
| JT TYPE                     | PLATES | W   | LEN | Y X       |
| B TMB1-H                    | MT20   | 3.0 | 4.0 |           |
| C TMW1-w                    | MT20   | 2.0 | 4.0 |           |
| D TTW1-p                    | MT20   | 4.0 | 4.0 | 2.25 2.00 |
| E TMW1-w                    | MT20   | 2.0 | 4.0 |           |
| F TMB1-H                    | MT20   | 3.0 | 4.0 |           |
| H TMW1-w                    | MT20   | 2.0 | 4.0 |           |

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

**BEARINGS**  
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.  
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.  
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

| LOADING               |                           |                  |          |                           |       |                           |          |                           |  |
|-----------------------|---------------------------|------------------|----------|---------------------------|-------|---------------------------|----------|---------------------------|--|
| TOTAL LOAD CASES: (4) |                           |                  |          |                           |       |                           |          |                           |  |
| CHORDS                |                           |                  |          |                           | WEBS  |                           |          |                           |  |
| MEMB.                 | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | LC1 (LC) | MAX. UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | LC1 (LC) | MAX. UNBRACED LENGTH (FT) |  |
| FR-TO                 |                           | FROM             | TO       |                           | FR-TO |                           | FROM     | TO                        |  |
| A-B                   | 0/36                      | -102.1           | -102.1   | 0.14 (1)                  | 10.00 | I-D                       | -88/0    | 0.02 (1)                  |  |
| B-L                   | -50/0                     | -102.1           | -102.1   | 0.01 (1)                  | 6.25  | J-C                       | -285/0   | 0.04 (1)                  |  |
| L-C                   | -55/0                     | -102.1           | -102.1   | 0.08 (1)                  | 6.25  | H-E                       | -285/0   | 0.04 (1)                  |  |
| C-D                   | -71/0                     | -102.1           | -102.1   | 0.08 (1)                  | 6.25  | K-L                       | -145/3   | 0.00 (1)                  |  |
| D-E                   | -71/0                     | -102.1           | -102.1   | 0.08 (1)                  | 6.25  | M-N                       | -145/3   | 0.00 (1)                  |  |
| E-N                   | -55/0                     | -102.1           | -102.1   | 0.08 (1)                  | 6.25  |                           |          |                           |  |
| N-F                   | -50/0                     | -102.1           | -102.1   | 0.01 (1)                  | 6.25  |                           |          |                           |  |
| F-G                   | 0/36                      | -102.1           | -102.1   | 0.14 (1)                  | 10.00 |                           |          |                           |  |
| B-K                   | 0/58                      | -17.5            | -17.5    | 0.06 (1)                  | 10.00 |                           |          |                           |  |
| K-J                   | 0/58                      | -17.5            | -17.5    | 0.06 (1)                  | 10.00 |                           |          |                           |  |
| J-I                   | 0/44                      | -17.5            | -17.5    | 0.04 (1)                  | 10.00 |                           |          |                           |  |
| I-H                   | 0/44                      | -17.5            | -17.5    | 0.04 (1)                  | 10.00 |                           |          |                           |  |
| H-M                   | 0/58                      | -17.5            | -17.5    | 0.08 (1)                  | 10.00 |                           |          |                           |  |
| M-F                   | 0/58                      | -17.5            | -17.5    | 0.06 (1)                  | 10.00 |                           |          |                           |  |

**DESIGN CRITERIA**  
SPECIFIED LOADS:  
TOP CH. LL = 28.0 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

**SPACING = 24.0 IN. OC**

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, CBC 2012  
- CSA 088-08, CSA 088-14  
- TPIC 2011, TPIC 2014

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.14/1.00 (F-G:1), BC=0.09/1.00 (B-K:1), WS=0.04/1.00 (E-H:1), SS=0.12/1.00 (F-M:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

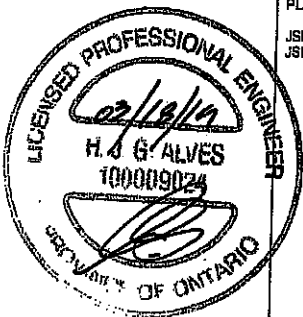
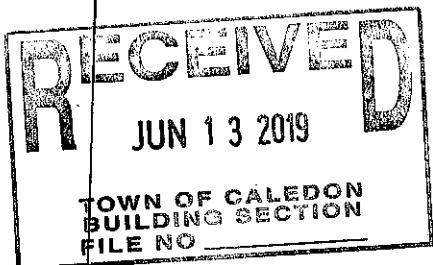
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL = 0.250 Inches

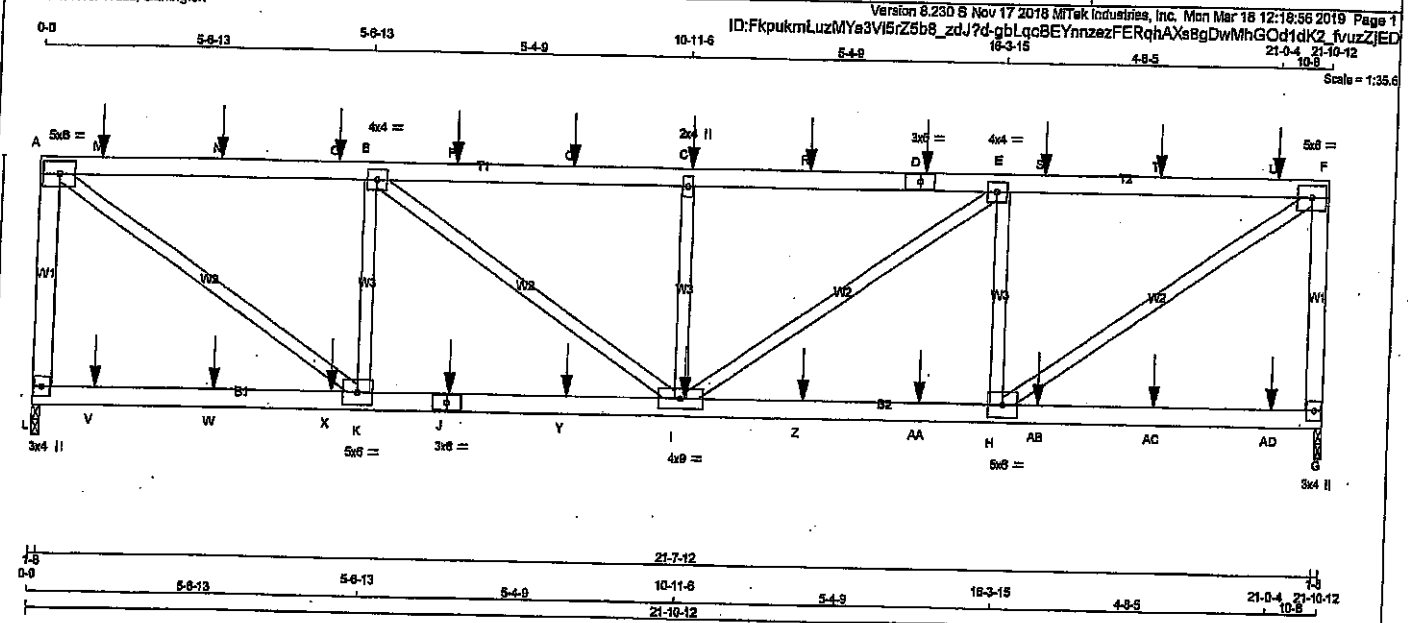
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.28 (F) (INPUT = 0.80)  
JSI METAL= 0.15 (C) (INPUT = 1.00)

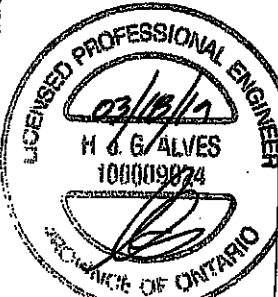


DRWG NO. TAM 71905365  
STRUCTURAL  
COMPONENT ONLY

|                                 |            |          |     |             |                  |          |
|---------------------------------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401768                          | T11        | 2        | 2   | TRUSS DESC. |                  |          |
| Tamarack Roof Truss, Burlington |            |          |     |             |                  |          |



|                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>LUMBERS</b><br><b>N. L. G. A. RULES</b><br>CHORDS SIZE LUMBER DESCR.<br>L - A 2x4 DRY No.2 SPF<br>A - D 2x4 DRY No.2 SPF<br>D - F 2x4 DRY No.2 SPF<br>G - F 2x4 DRY No.2 SPF<br>L - J 2x4 DRY No.2 SPF<br>J - G 2x4 DRY No.2 SPF<br>ALL WEBS 2x3 DRY No.2 SPF<br>DRY: SEASONED LUMBER.                                                                                                         |  | <b>DESIGN CRITERIA</b><br>SPECIFIED LOADS:<br>TOP CH. LL = 28.0 PSF<br>DL = 8.0 PSF<br>BOT CH. LL = 0.0 PSF<br>DL = 7.0 PSF<br>TOTAL LOAD = 42.0 PSF<br>SPACING = 24.0 IN. OC<br>LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM<br>THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBCC 2015<br>THIS DESIGN COMPLIES WITH:<br>- PART 9 OF NBC 2010, NBC 2012<br>- CSA 088-08, CSA 088-14<br>- TPIC 2011, TPIC 2014<br>(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD<br>ALLOWABLE DEFL. (LL) = L/360 (0.73")<br>CALCULATED VERT. DEFL. (LL) = L/999 (0.07")<br>ALLOWABLE DEFL. (TL) = L/360 (0.73")<br>CALCULATED VERT. DEFL. (TL) = L/999 (0.12")<br>CSI: TO=0.47/1.00 (C-E:1), BC=0.28/1.00 (H-I:1), WB=0.37/1.00 (A-K:1), SS=0.25/1.00 (A-B:1)<br>DOL LUMBER=1.00 NAIL=1.00 LBS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00<br>COMPANION LIVE LOAD FACTOR = 1.00<br>TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.<br>NAIL VALUES<br>PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)<br>MAX MIN MAX MIN MAX MIN<br>MT20 618 354 1887 788 1987 1856<br>PLATE PLACEMENT TOL. = 0.250 inches<br>PLATE ROTATION TOL. = 5.0 Deg.<br>JSI GRIP= 0.71 (K) (INPUT = 0.90)<br>JSI METAL= 0.38 (J) (INPUT = 1.00)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| <b>DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:</b><br>CHORDS #ROWS SURFACE SPACING (IN) LOAD (PLF)<br>TOP CHORDS: (0.122"x3") SPIRAL NAILS<br>L-A 1 12 TOP<br>A-D 1 12 SIDE(61.0)<br>D-F 1 12 SIDE(0.0)<br>F-G 1 12 TOP<br>BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS<br>L-J 1 12 SIDE(0.0)<br>J-G 1 12 SIDE(61.0)<br>WEBS: (0.122"x3") SPIRAL NAILS<br>2x3 1 6 |  | <b>DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</b><br><b>BEARINGS</b><br>FACTORED MAXIMUM FACTORED INPUT REQD<br>GROSS REACTION GROSS REACTION BRG BRG<br>JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX<br>L 2119 0 2119 0 0 1-8 1-8<br>G 2134 0 2134 0 0 1-8 1-8<br><b>UNFACTORED REACTIONS</b><br>1ST CASE MAX/MIN COMPONENT REACTIONS<br>JT COMBINED SNOW LIVE PERMLIVE WIND DEAD SOIL<br>L 1481 1018/0 0/0 0/0 0/0 473/0 0/0<br>G 1502 1028/0 0/0 0/0 0/0 477/0 0/0<br>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) L, G<br><b>BRACING</b><br>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.68 FT.<br>MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.<br>ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.<br><b>LOADING</b><br>TOTAL LOAD CASES: (4)<br>CHORDS MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX CSI (LC) MAX UNBRACED LENGTH (FT) FR-TO<br>L-A -2050/0 0.0 0.0 0.28 (1) 7.72 H-F 0/2988 0.37 (1)<br>A-M -2488/0 -102.1 -102.1 0.45 (1) 5.15 H-E -1502/0 0.20 (1)<br>M-N -2488/0 -102.1 -102.1 0.45 (1) 5.15 H-B -1503/0 0.20 (1)<br>N-O -2488/0 -102.1 -102.1 0.45 (1) 5.15 I-E 0/824 0.10 (1)<br>O-B -2488/0 -102.1 -102.1 0.47 (1) 4.68 B-I 0/824 0.10 (1)<br>B-P -3138/0 -102.1 -102.1 0.47 (1) 4.68 I-C -805/0 0.11 (1)<br>P-Q -3138/0 -102.1 -102.1 0.47 (1) 4.68<br>Q-C -3138/0 -102.1 -102.1 0.47 (1) 4.68<br>C-R -3138/0 -102.1 -102.1 0.47 (1) 4.68<br>R-D -3138/0 -102.1 -102.1 0.47 (1) 4.68<br>D-E -3138/0 -102.1 -102.1 0.47 (1) 4.68<br>E-S -2488/0 -102.1 -102.1 0.45 (1) 5.15<br>S-T -2488/0 -102.1 -102.1 0.45 (1) 5.15<br>T-U -2488/0 -102.1 -102.1 0.45 (1) 5.15<br>U-F -2488/0 -102.1 -102.1 0.45 (1) 5.15<br>F-G -2062/0 0.0 0.0 0.28 (1) 7.70<br>WEBS MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX CSI (LC) MAX UNBRACED LENGTH (FT) FR-TO<br>L-V 0/0 -17.5 -17.5 0.12 (4) 10.00<br>V-W 0/0 -17.5 -17.5 0.12 (4) 10.00<br>W-X 0/0 -17.5 -17.5 0.12 (4) 10.00<br>X-K 0/0 -17.5 -17.5 0.12 (4) 10.00<br>K-J 0/2488 -17.5 -17.5 0.28 (1) 10.00<br>J-Y 0/2488 -17.5 -17.5 0.28 (1) 10.00<br>Y-I 0/2488 -17.5 -17.5 0.28 (1) 10.00<br>I-Z 0/2488 -17.5 -17.5 0.28 (1) 10.00<br>Z-AA 0/2488 -17.5 -17.5 0.28 (1) 10.00<br>AA-H 0/2488 -17.5 -17.5 0.28 (1) 10.00<br>H-AB 0/0 -17.5 -17.5 0.12 (4) 10.00<br>AB-AC 0/0 -17.5 -17.5 0.12 (4) 10.00<br>AC-AD 0/0 -17.5 -17.5 0.12 (4) 10.00<br>AD-G 0/0 -17.5 -17.5 0.12 (4) 10.00<br><b>FACTORED CONCENTRATED LOADS (LBS)</b><br>LOC. LC1 MAX. MAX- FACE DIR. TYPE HEEL CONN.<br>C 11-0.4 -123 -123 - BACK VERT TOTAL - -<br>D 15-0.4 -123 -123 - BACK VERT TOTAL - -<br>I 11-0.4 -25 -25 - BACK VERT TOTAL - -<br>J 7-0.4 -25 -25 - BACK VERT TOTAL - -<br>K 1-0.4 -123 -123 - BACK VERT TOTAL - -<br>L 3-0.4 -123 -123 - BACK VERT TOTAL - - |  |

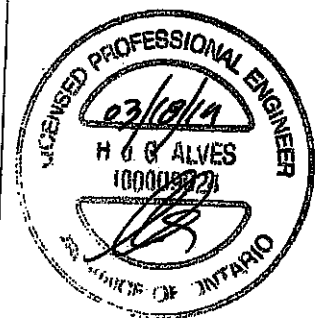


**RECEIVED**  
**JUN 13 2019**  
**TOWN OF CALEDON**  
**BUILDING SECTION**  
**FILE NO.**

DRWG NO. TAM 71905366  
 STRUCTURAL  
 COMPONENT ONLY 1/2

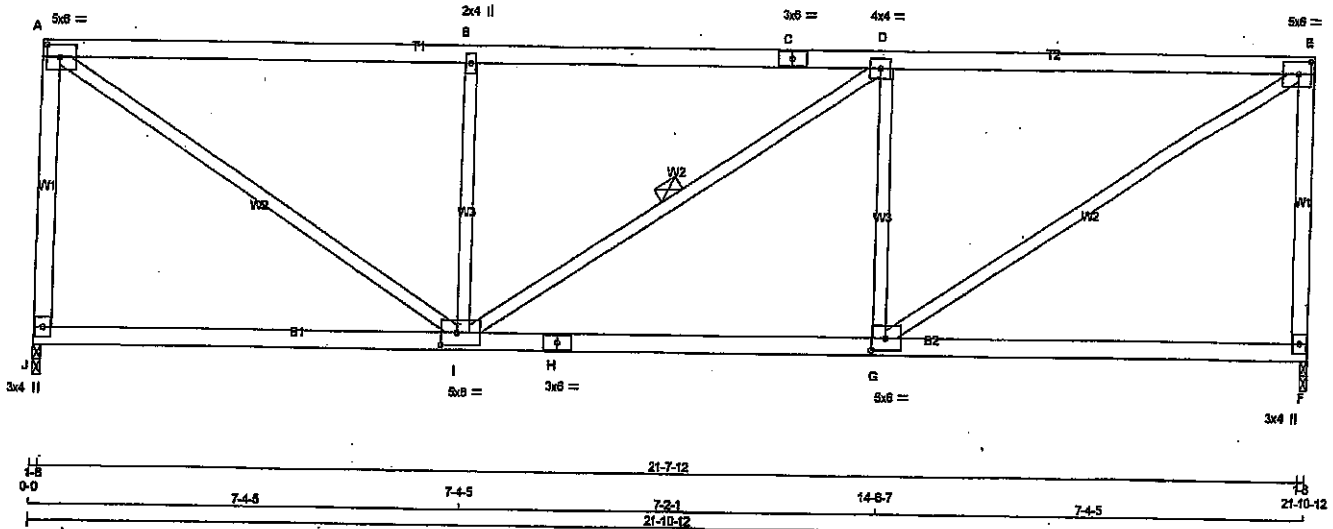
|                                 |                   |               |          |                                                                                                                                                                   |          |
|---------------------------------|-------------------|---------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| JOB NAME<br>401769              | TRUSS NAME<br>T11 | QUANTITY<br>2 | PLY<br>2 | JOB DESC.<br>GREEN PARK HOMES                                                                                                                                     | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          | Version 8.230 S Nov 17 2018 Mittek Industries, Inc. Mon Mar 18 12:18:56 2019 Page 2<br>ID:FkpvkmluzMYa3Vl8rZ5b8_zdJ7d-gblgcBEYnnzeZFERohAXs8gDwMhGOd1dK2 fvuzZIED |          |

| FACTORED CONCENTRATED LOADS (LBS) |        |      |      |      |      |      |       |      |       |
|-----------------------------------|--------|------|------|------|------|------|-------|------|-------|
|                                   | LOC.   | LC1  | MAX. | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
| JT                                | 5-0-4  | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | ---   |
| OP                                | 7-0-4  | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | ---   |
| P                                 | 8-0-4  | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | ---   |
| Q                                 | 9-0-4  | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | ---   |
| R                                 | 13-0-4 | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | ---   |
| S                                 | 17-0-4 | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | ---   |
| T                                 | 19-0-4 | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | ---   |
| U                                 | 21-0-4 | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | ---   |
| V                                 | 1-0-4  | -25  | -25  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| W                                 | 3-0-4  | -25  | -25  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| X                                 | 5-0-4  | -25  | -25  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| Y                                 | 9-0-4  | -25  | -25  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| Z                                 | 13-0-4 | -25  | -25  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| AA                                | 15-0-4 | -25  | -25  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| AB                                | 17-0-4 | -25  | -25  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| AC                                | 19-0-4 | -25  | -25  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| AD                                | 21-0-4 | -25  | -25  | ---  | BACK | VERT | TOTAL | ---  | ---   |



DWG NO. TAM 17905366  
 STRUCTURAL  
 COMPONENT ONLY 2/2

|                                 |                          |                      |                 |                                                                                                                                                                                              |          |
|---------------------------------|--------------------------|----------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| JOB NAME<br><b>401769</b>       | TRUSS NAME<br><b>T12</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b>                                                                                                                                                         | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | Version 8.230 5 Nov 17 2016 Matek Industries, Inc. Mon Mar 18 12:16:57 2019 Page 1<br>ID:FkpukmLuzMYa3V15Z5b8_zdJ7d-8nvDqXEAY45VbOpdOPhmPMCH_m0R73ynZiKDSKzJEC<br>21-10-12<br>Scale = 1:38.1 |          |



| LUMBER                |      |        |        |
|-----------------------|------|--------|--------|
| N.L.G.A. RULES        | SIZE | LUMBER | DESCR. |
| J - A                 | 2x4  | DRY    | No.2   |
| A - C                 | 2x4  | DRY    | No.2   |
| C - E                 | 2x4  | DRY    | No.2   |
| E - F                 | 2x4  | DRY    | No.2   |
| F - H                 | 2x4  | DRY    | No.2   |
| H - F                 | 2x4  | DRY    | No.2   |
| ALL WEBS              | 2x3  | DRY    | No.2   |
| DRY: SEASONED LUMBER. |      |        |        |

| PLATES (table in inches) |         |      |     |               |
|--------------------------|---------|------|-----|---------------|
| JT TYPE                  | PLATES  | W    | LEN | Y X           |
| A                        | TMVW-t  | MT20 | 5.0 | 6.0 2.60 2.75 |
| B                        | TMVW-w  | MT20 | 2.0 | 4.0           |
| C                        | TS-t    | MT20 | 3.0 | 6.0           |
| D                        | TMVW-t  | MT20 | 4.0 | 4.0           |
| E                        | TMVW-t  | MT20 | 5.0 | 6.0 2.50 2.75 |
| F                        | BMV1+p  | MT20 | 3.0 | 4.0           |
| G                        | BMVW-t  | MT20 | 5.0 | 6.0 2.60 2.75 |
| H                        | BS-t    | MT20 | 3.0 | 6.0           |
| I                        | BMVWV-t | MT20 | 5.0 | 8.0 2.50 3.25 |
| J                        | BMV1+p  | MT20 | 3.0 | 4.0           |

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

| BEARINGS |   | FACTORED |      | MAXIMUM FACTORED |                | INPUT |       | REQD |       |
|----------|---|----------|------|------------------|----------------|-------|-------|------|-------|
| JT       | F | VERT     | HORZ | GROSS REACTION   | GROSS REACTION | BRG   | IN-SX | BRG  | IN-SX |
| JT       | F | 1309     | 0    | 1309             | 0              | 1-8   | 1-8   | 1-8  | 1-8   |
| F        |   | 1309     | 0    | 1309             | 0              | 1-8   | 1-8   | 1-8  | 1-8   |

#### UNFACTORED REACTIONS

| JT | COMBINED | SNOW  | LIVE | PERM.LIVE | WIND | DEAD  | SOIL |
|----|----------|-------|------|-----------|------|-------|------|
| J  | 820      | 696/0 | 0/0  | 0/0       | 0/0  | 285/0 | 0/0  |
| F  | 920      | 696/0 | 0/0  | 0/0       | 0/0  | 285/0 | 0/0  |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.93 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 D-I.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                                | WEBS  |                           |                                |                                |
|--------|---------------------------|---------------------------|--------------------------------|-------|---------------------------|--------------------------------|--------------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) |
| FR-TO  |                           | FROM TO                   | CS1 (LC)                       | FR-TO |                           | FROM TO                        | CS1 (LC)                       |
| J-A    | -1266/0                   | 0.0                       | 0.0 0.55 (1)                   | G-E   | 0/1740                    | 0.39 (1)                       | 0.39 (1)                       |
| A-B    | -1455/0                   | -102.1                    | -102.1 0.80 (1)                | A-1   | 0/1739                    | 0.39 (1)                       | 0.39 (1)                       |
| B-C    | -1455/0                   | -102.1                    | -102.1 0.89 (1)                | G-D   | -814/0                    | 0.31 (1)                       | 0.31 (1)                       |
| C-D    | -1455/0                   | -102.1                    | -102.1 0.89 (1)                | I-B   | -813/0                    | 0.31 (1)                       | 0.31 (1)                       |
| D-E    | -1457/0                   | -102.1                    | -102.1 0.80 (1)                | I-D   | -1/0                      | 0.00 (1)                       | 0.00 (1)                       |
| F-E    | -1266/0                   | 0.0                       | 0.0 0.55 (1)                   |       |                           |                                |                                |
| J-I    | 0/0                       | -17.5                     | -17.5 0.21 (4)                 |       |                           |                                |                                |
| I-H    | 0/1457                    | -17.5                     | -17.5 0.35 (1)                 |       |                           |                                |                                |
| H-G    | 0/1457                    | -17.5                     | -17.5 0.35 (1)                 |       |                           |                                |                                |
| G-F    | 0/0                       | -17.5                     | -17.5 0.21 (4)                 |       |                           |                                |                                |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

SPACING = 24.0 IN. CG

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2010, OBC 2012  
- CSA 086-08, CSA 086-14  
- TPIC 2011, TPIC 2014

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(LL) = L/989 (0.07")  
ALLOWABLE DEFL.(TL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(TL) = L/989 (0.14")

CS1: TC=0.90/1.00 (D-E:1), BC=0.35/1.00 (G-I:1), WB=0.39/1.00 (E-G:1), SS=0.35/1.00 (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

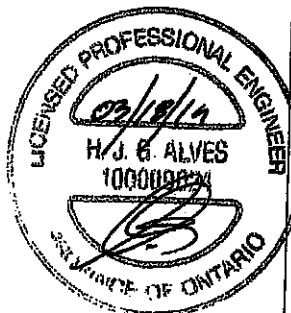
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1687 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

SI GRIP = 0.78 (E) (INPUT = 0.90)  
SI METAL = 0.41 (H) (INPUT = 1.00)

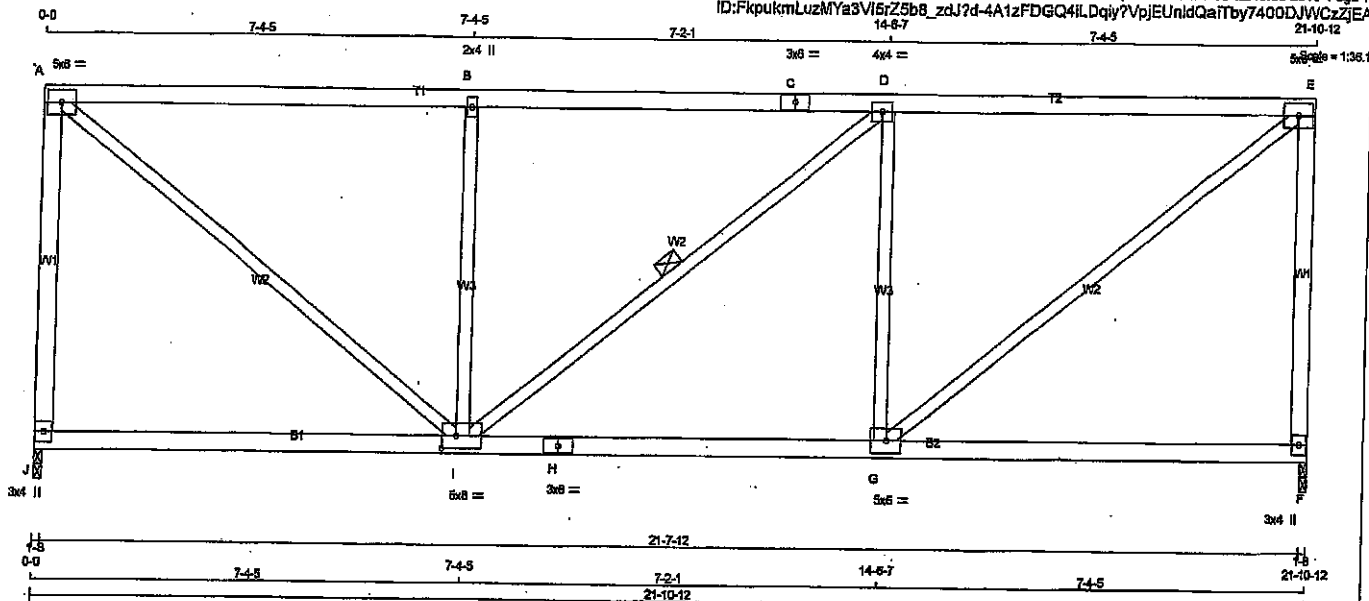


DWG NO. TAM 7705367  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401769   | T13        | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MTak Industries, Inc. Mon Mar 18 12:18:58 2018 Page 1  
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| LUMBER                | N.L.G.A. RULES | SIZE | DRY  | LUMBER | DESCR. |
|-----------------------|----------------|------|------|--------|--------|
| CHORDS                |                |      |      |        |        |
| J - A                 | 2x4            | DRY  | No.2 | SPF    |        |
| A - C                 | 2x4            | DRY  | No.2 | SPF    |        |
| C - E                 | 2x4            | DRY  | No.2 | SPF    |        |
| E - F                 | 2x4            | DRY  | No.2 | SPF    |        |
| F - H                 | 2x4            | DRY  | No.2 | SPF    |        |
| H - F                 | 2x4            | DRY  | No.2 | SPF    |        |
| ALL WEBS              | 2x3            | DRY  | No.2 | SPF    |        |
| DRY: SEASONED LUMBER. |                |      |      |        |        |

| PLATES (table in inches) | W    | LEN | Y   | X         |
|--------------------------|------|-----|-----|-----------|
| JT TYPE                  |      |     |     |           |
| A - TMVW-1               | MT20 | 5.0 | 6.0 |           |
| B - TMVW-w               | MT20 | 2.0 | 4.0 |           |
| C - TS-1                 | MT20 | 3.0 | 6.0 |           |
| D - TMVW-t               | MT20 | 4.0 | 4.0 |           |
| E - TMVW-t               | MT20 | 5.0 | 6.0 |           |
| F - BMV1-p               | MT20 | 3.0 | 4.0 |           |
| G - BMVW-1               | MT20 | 5.0 | 6.0 |           |
| H - BS-1                 | MT20 | 3.0 | 6.0 |           |
| I - BMVWVW-1             | MT20 | 5.0 | 6.0 | 2.50 3.00 |
| J - BMV1-p               | MT20 | 3.0 | 4.0 |           |

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----------|----------------|------------------|-------|------|
|          | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT       | VERT           | DOWN             | 1-8   | 1-8  |
| J        | 1309 0         | 1309 0           | 0     | 0    |
| F        | 1309 0         | 1309 0           | 0     | 0    |

| UNFACTORED REACTIONS | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS       |
|----------------------|-----------|------------------------------------|
| JT                   | COMBINED  | SNOW LIVE PERM.LIVE WIND DEAD SOIL |
| J                    | 920       | 836 / 0 0 / 0 0 / 0 285 / 0 0 / 0  |
| F                    | 920       | 836 / 0 0 / 0 0 / 0 285 / 0 0 / 0  |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.32 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING  
TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED               | VERT. LOAD LC1 | MAX    | MAX. FACTORED | WEBS        | MAX. FACTORED | MAX    |
|--------|---------------|------------------------|----------------|--------|---------------|-------------|---------------|--------|
| MEMB.  | FORCE (LBS)   | VERT. (PLF)            | CS1 (LC)       | LENGTH | MEMB.         | FORCE (LBS) | CS1 (LC)      | LENGTH |
| FR-TO  |               | FROM TO                |                |        | FR-TO         |             |               |        |
| J-A    | -1256 / 0     | 0.0                    | 0.0 0.91 (1)   | 7.17   | G-E           | 0 / 1536    | 0.35 (1)      |        |
| A-B    | -1206 / 0     | -102.1 -102.1 0.86 (1) | 4.35           | A-I    | 0 / 1536      | 0.35 (1)    |               |        |
| B-C    | -1206 / 0     | -102.1 -102.1 0.86 (1) | 4.32           | G-D    | -814 / 0      | 0.48 (1)    |               |        |
| C-D    | -1206 / 0     | -102.1 -102.1 0.86 (1) | 4.32           | I-B    | -818 / 0      | 0.48 (1)    |               |        |
| D-E    | -1207 / 0     | -102.1 -102.1 0.86 (1) | 4.32           | I-D    | -2 / 0        | 0.00 (1)    |               |        |
| F-E    | -1256 / 0     | 0.0                    | 0.0 0.91 (1)   | 7.17   |               |             |               |        |
| J-I    | 0 / 0         | -17.5 -17.5 0.21 (4)   | 10.00          |        |               |             |               |        |
| I-H    | 0 / 1207      | -17.5 -17.5 0.31 (1)   | 10.00          |        |               |             |               |        |
| H-G    | 0 / 1207      | -17.5 -17.5 0.31 (1)   | 10.00          |        |               |             |               |        |
| G-F    | 0 / 0         | -17.5 -17.5 0.21 (4)   | 10.00          |        |               |             |               |        |

# DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 28.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")  
ALLOWABLE DEFL.(TL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

OSI: TC=0.91/1.00 (E-F:1), BC=0.31/1.00 (G-I:1),  
WB=0.49/1.00 (D-G:1), SS=0.35/1.00 (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

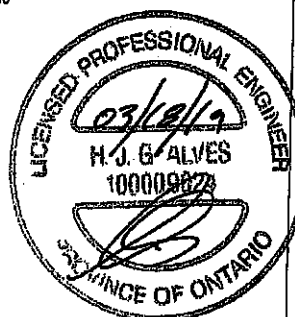
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1987 1650

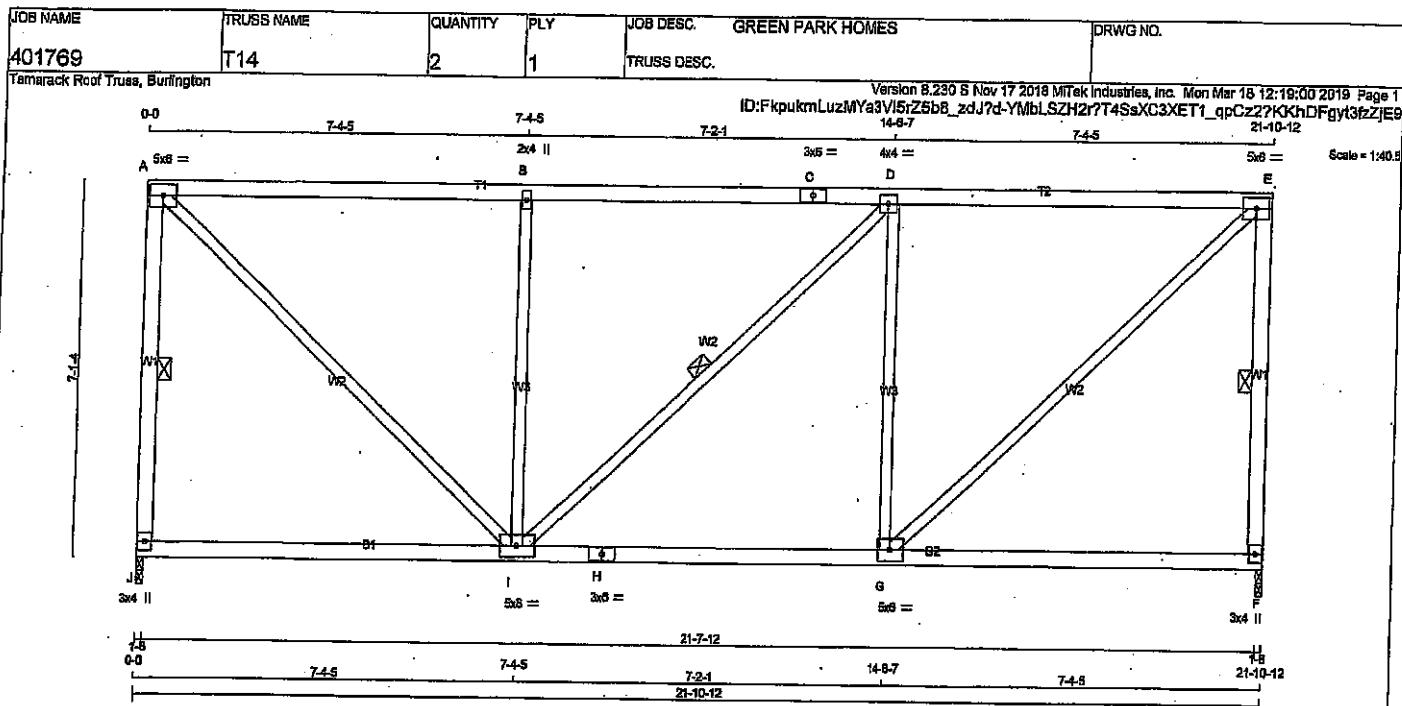
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

SI GRIP= 0.74 (E) (INPUT = 0.90)  
SI METAL= 0.35 (I) (INPUT = 1.00)



DWG NO. TAM 17405368  
STRUCTURAL  
COMPONENT ONLY



**LUMBER**

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

**PLATES (table is in inches)**

| JT TYPE | PLATES | W    | LEN | Y   | X |
|---------|--------|------|-----|-----|---|
| A       | TMVW-1 | MT20 | 5.0 | 6.0 |   |
| B       | TMVW-1 | MT20 | 2.0 | 4.0 |   |
| C       | TS-1   | MT20 | 3.0 | 6.0 |   |
| D       | TMVW-1 | MT20 | 4.0 | 4.0 |   |
| E       | TMVW-1 | MT20 | 5.0 | 6.0 |   |
| F       | BMV1-p | MT20 | 3.0 | 4.0 |   |
| G       | BMVW-1 | MT20 | 5.0 | 6.0 |   |
| H       | BS-1   | MT20 | 3.0 | 6.0 |   |
| I       | BMVW-1 | MT20 | 5.0 | 6.0 |   |
| J       | BMV1-p | MT20 | 3.0 | 4.0 |   |

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

**BEARINGS**

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| J  | 1309                    | 0                               | 1309      | 0        |
| F  | 1309                    | 0                               | 1309      | 0        |

**UNFACTORED REACTIONS**

| JT | 1ST CASE | MAX/MIN COMPONENT REACTIONS |
|----|----------|-----------------------------|
| JT | COMBINED | SNOW                        |
| J  | 920      | 636 / 0                     |
| F  | 920      | 636 / 0                     |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.63 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | FACTORED VERT. LOAD LC1 (LBS) | MAX. CS1 (LC) | MAX. UNBRAC LENGTH | WEBS              |               |
|-------|---------------------------|---------------------------|-------------------------------|---------------|--------------------|-------------------|---------------|
|       |                           |                           |                               |               |                    | MEMB. FORCE (LBS) | MAX. CS1 (LC) |
| FR-TO |                           |                           |                               |               |                    |                   |               |
| J-A   | -1256 / 0                 | 0.0                       | 0.0                           | 0.29 (1)      | 5.74               | G-E               | 0 / 1404      |
| A-B   | -1029 / 0                 | -102.1                    | -102.1                        | 0.83 (1)      | 4.63               | A-I               | 0 / 1402      |
| B-C   | -1029 / 0                 | -102.1                    | -102.1                        | 0.83 (1)      | 4.63               | G-D               | -814 / 0      |
| C-D   | -1029 / 0                 | -102.1                    | -102.1                        | 0.83 (1)      | 4.63               | I-B               | -813 / 0      |
| D-E   | -1030 / 0                 | -102.1                    | -102.1                        | 0.84 (1)      | 4.63               | I-D               | -2 / 0        |
| E-F   | -1257 / 0                 | 0.0                       | 0.0                           | 0.29 (1)      | 5.74               |                   |               |
| J-I   | 0 / 0                     | -17.5                     | -17.5                         | 0.21 (4)      | 10.00              |                   |               |
| I-H   | 0 / 1030                  | -17.5                     | -17.5                         | 0.29 (4)      | 10.00              |                   |               |
| H-G   | 0 / 1030                  | -17.5                     | -17.5                         | 0.29 (4)      | 10.00              |                   |               |
| G-F   | 0 / 0                     | -17.5                     | -17.5                         | 0.21 (4)      | 10.00              |                   |               |

TOTAL WEIGHT = 2 X 98 = 197 lb

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 28.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")  
ALLOWABLE DEFL.(TL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CS1: TC=0.84/1.00 (D-E:1), BC=0.29/1.00 (G-I:4), WB=0.71/1.00 (D-G:1), SS=0.35/1.00 (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

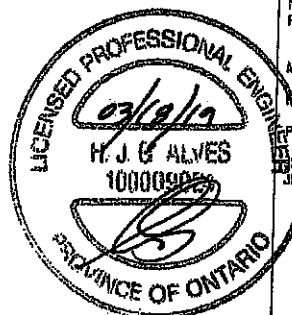
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 789 1987 1666

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CS1 GRIP= 0.78 (I) (INPUT = 0.90)  
CS1 METAL= 0.31 (I) (INPUT = 1.00)

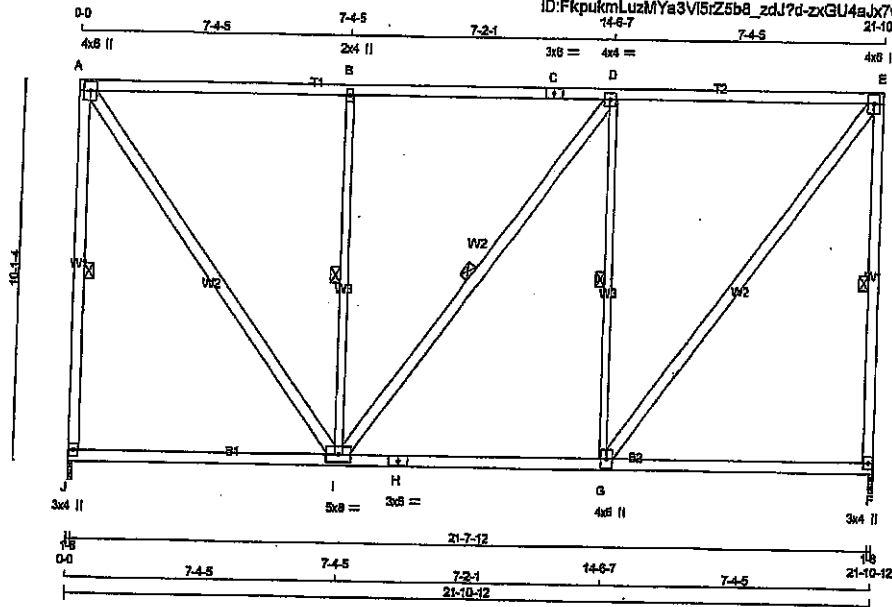


DWG NO. TAM 1905369  
STRUCTURAL  
COMPONENT ONLY





|                                 |                   |               |          |                               |          |
|---------------------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>401769              | TRUSS NAME<br>T17 | QUANTITY<br>8 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          | TRUSS DESC.                   |          |



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

|          |     |     |      |
|----------|-----|-----|------|
| ALL WEBS | 2x4 | DRY | No.2 |
| EXCEPT   |     |     |      |
| G - D    | 2x3 | DRY | No.2 |
| I - B    | 2x3 | DRY | No.2 |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT TYPE | PLATES | W    | LEN | Y   | X |
|---------|--------|------|-----|-----|---|
| A       | TMVW+p | MT20 | 4.0 | 6.0 |   |
| B       | TMVW+w | MT20 | 2.0 | 4.0 |   |
| C       | TS-1   | MT20 | 3.0 | 6.0 |   |
| D       | TMVW-1 | MT20 | 4.0 | 4.0 |   |
| E       | TMVW+p | MT20 | 4.0 | 6.0 |   |
| F       | BMV1+p | MT20 | 3.0 | 4.0 |   |
| G       | BMVW+1 | MT20 | 4.0 | 6.0 |   |
| H       | BS-1   | MT20 | 3.0 | 6.0 |   |
| I       | BMVW+1 | MT20 | 5.0 | 8.0 |   |
| J       | 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       | GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
| JT       | VERT           | DOWN             | HORZ  | UPLIFT |
| J        | 1309           | 0                | 1309  | 0      |
| F        | 1309           | 0                | 1309  | 0      |

| UNFACTORED REACTIONS |           |                              |       |           |       |         |       |
|----------------------|-----------|------------------------------|-------|-----------|-------|---------|-------|
|                      | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS |       |           |       |         |       |
| JT                   | COMBINED  | SNOW                         | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| J                    | 920       | 898 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 285 / 0 | 0 / 0 |
| F                    | 920       | 898 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 285 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.36 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF A-J, E-F, D-G, B-I, D-I.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |        |              | WEBS               |       |                           |              |  |
|--------|---------------------------|---------------------------|--------|--------------|--------------------|-------|---------------------------|--------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1    | MAX CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |  |
| FR-TO  |                           | FROM                      | TO     |              |                    | FR-TO |                           |              |  |
| J-A    | -1258 / 0                 | 0.0                       | 0.0    | 0.63 (1)     | 5.74               | G-E   | 0 / 1193                  | 0.19 (1)     |  |
| A-B    | -715 / 0                  | -102.1                    | -102.1 | 0.79 (1)     | 5.40               | A-I   | 0 / 1191                  | 0.19 (1)     |  |
| B-C    | -715 / 0                  | -102.1                    | -102.1 | 0.80 (1)     | 5.38               | G-D   | -814 / 0                  | 0.57 (1)     |  |
| C-D    | -715 / 0                  | -102.1                    | -102.1 | 0.80 (1)     | 5.38               | I-B   | -813 / 0                  | 0.57 (1)     |  |
| D-E    | -715 / 0                  | -102.1                    | -102.1 | 0.80 (1)     | 5.38               | I-D   | -2 / 0                    | 0.00 (1)     |  |
| E-F    | -1257 / 0                 | 0.0                       | 0.0    | 0.63 (1)     | 5.74               |       |                           |              |  |
| J-I    | 0 / 0                     | -17.5                     | -17.5  | 0.21 (4)     | 10.00              |       |                           |              |  |
| I-H    | 0 / 715                   | -17.5                     | -17.5  | 0.27 (4)     | 10.00              |       |                           |              |  |
| H-G    | 0 / 715                   | -17.5                     | -17.5  | 0.27 (4)     | 10.00              |       |                           |              |  |
| G-F    | 0 / 0                     | -17.5                     | -17.5  | 0.21 (4)     | 10.00              |       |                           |              |  |

#### DESIGN CRITERIA

| SPECIFIED LOADS: | TOP CH     | LL   | PSF |
|------------------|------------|------|-----|
|                  | LL         | 29.0 | PSF |
|                  | DL         | 6.0  | PSF |
|                  | LL         | 0.0  | PSF |
|                  | DL         | 7.0  | PSF |
|                  | TOTAL LOAD | 42.0 | PSF |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(TL) = L/998 (0.10")

CSI: TC=0.80/1.00 (D-E:1), SC=0.27/1.00 (G-H:4),  
WB=0.57/1.00 (D-G:1), SS=0.35/1.00 (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

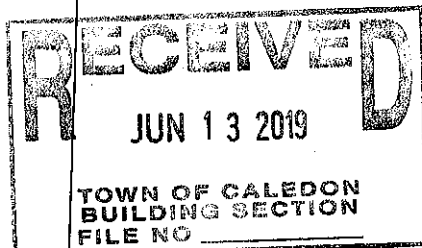
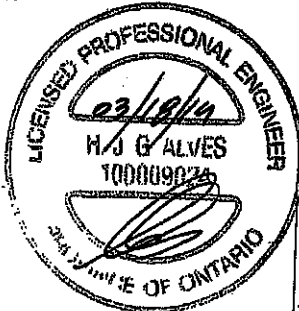
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

| NAIL VALUES | PLATE GRIP(DRY) | SHEAR | SECTION |
|-------------|-----------------|-------|---------|
| (PS)        | (PL)            | (PL)  | (PL)    |
|             | MAX             | MIN   | MAX     |
| MT20        | 818             | 354   | 1887    |

PLATE PLACEMENT TOL = 0.250 inches

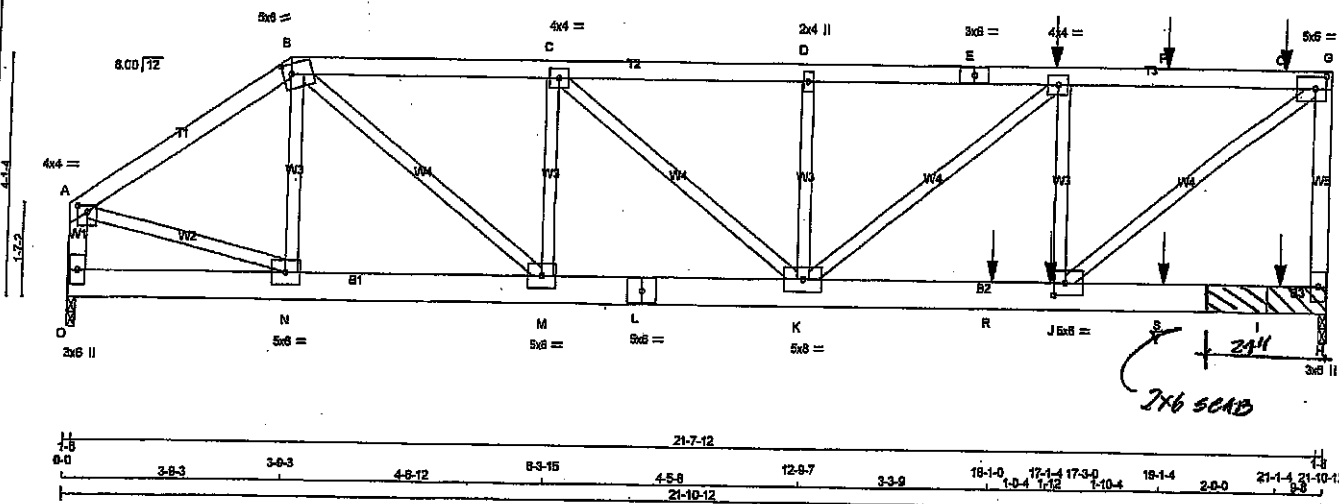
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.88 (E) (INPUT = 0.80)  
JSI METAL= 0.32 (E) (INPUT = 1.00)



DRWG NO. TAM 17705372  
STRUCTURAL  
COMPONENT ONLY

|                                                                                                                                                                                                            |                          |                                                                                                                                                                 |                 |                                      |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>401769</b>                                                                                                                                                                                  | TRUSS NAME<br><b>T18</b> | QUANTITY<br><b>2</b>                                                                                                                                            | PLY<br><b>2</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington                                                                                                                                                                            |                          | Version 8.230 S Nov 17 2018 MITek Industries, Inc. Mon Mar 18 12:19:05 2019 Page 1<br>ID:FkpukmLuzMYa3Vl8rZ6b8_zdJ7d-vKOEVLBFY8MydQ8s4qek2Ym3_fv7eZyPygeksszJE4 |                 |                                      |          |
| <div style="display: flex; justify-content: space-between;"> <span>0-0 3-8-3 3-9-3 4-8-12 8-3-15 4-5-8 12-8-7 4-3-13 17-1-4 17-3-0 1-10-4 18-1-4 21-1-4 21-10-12</span> <span>Scale = 1:36.4</span> </div> |                          |                                                                                                                                                                 |                 |                                      |          |



| LUMBER          |      |          |        |
|-----------------|------|----------|--------|
| N.L.G.A. RULES  | SIZE | LUMBER   | DESCR. |
| CHORDS          |      |          |        |
| A - B           | 2x4  | DRY No.2 | SPF    |
| B - E           | 2x4  | DRY No.2 | SPF    |
| E - G           | 2x4  | DRY No.2 | SPF    |
| H - G           | 2x4  | DRY No.2 | SPF    |
| O - A           | 2x4  | DRY No.2 | SPF    |
| O - L           | 2x6  | DRY No.2 | SPF    |
| L - H           | 2x6  | DRY No.2 | SPF    |
| ALL WEBS EXCEPT | 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                                      | 12                   | TOP          |
| B-E                                      | 12                   | TOP          |
| E-G                                      | 12                   | SIDE (61.0)  |
| G-H                                      | 12                   | TOP          |
| O-A                                      | 12                   | TOP          |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |              |
| O-L                                      | 12                   | TOP          |
| L-H                                      | 12                   | SIDE (183.1) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |              |
| 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 TRANSFERRING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| A  | TMW-p  | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| B  | TTWW-m | MT20   | 5.0 | 6.0 | 2.00 | 1.75 |
| C  | TMWW-t | MT20   | 4.0 | 4.0 |      |      |
| D  | TMW-w  | MT20   | 2.0 | 4.0 |      |      |
| E  | TS-t   | MT20   | 3.0 | 6.0 |      |      |
| F  | TMWW-t | MT20   | 4.0 | 4.0 |      |      |
| G  | BMV-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| H  | BMV-t  | MT20   | 3.0 | 6.0 |      |      |
| J  | BMWW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| K  | BMWW-t | MT20   | 5.0 | 6.0 |      |      |
| L  | BS-t   | MT20   | 5.0 | 6.0 |      |      |
| M  | BMWW-t | MT20   | 5.0 | 6.0 |      |      |
| N  | BMWW-t | MT20   | 5.0 | 6.0 |      |      |
| O  | BMV-t  | MT20   | 3.0 | 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 | JT                              | DOWN | BRG       | IN-SX | BRG      | IN-SX |
| H                       | 3053 | 0                               | 3053 | 0         | 1-8   | 1-8      | 1-8   |
| O                       | 1851 | 0                               | 1851 | 0         | 1-8   | 1-8      | 1-8   |

UNFACTORED REACTIONS

| JT | COMBINED | SNOW     | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|----------|-------|------------|-------|---------|-------|
| H  | 2142     | 1488 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 644 / 0 | 0 / 0 |
| O  | 1300     | 906 / 0  | 0 / 0 | 0 / 0      | 0 / 0 | 384 / 0 | 0 / 0 |

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

2x6 DRY SPF No.2 BEARING BLOCK 24" LONG AT JT. H ATTACHED TO FRONT SIDE WITH 3 ROWS OF (0.122"x3") SPIRAL NAILS SPACED 3" O.C. 24" NAILS TOTAL

BRACING

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

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

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    | -2017 / 0                 | -102.1                    | -102.1 0.16 (1)           | 8.02  | A-N                       | -392 / 0                  | 0.05 (1) |
| B-C    | -3049 / 0                 | -102.1                    | -102.1 0.21 (1)           | 5.08  | A-N                       | 0 / 1753                  | 0.22 (1) |
| C-D    | -3831 / 0                 | -102.1                    | -102.1 0.23 (1)           | 4.62  | J-G                       | 0 / 4392                  | 0.34 (1) |
| D-E    | -3831 / 0                 | -102.1                    | -102.1 0.28 (1)           | 4.55  | B-M                       | 0 / 1796                  | 0.22 (1) |
| E-F    | -3831 / 0                 | -102.1                    | -102.1 0.28 (1)           | 4.55  | J-F                       | -1124 / 0                 | 0.14 (1) |
| F-P    | -3428 / 0                 | -102.1                    | -102.1 0.30 (1)           | 4.74  | M-C                       | -1178 / 0                 | 0.15 (1) |
| P-Q    | -3428 / 0                 | -102.1                    | -102.1 0.30 (1)           | 4.74  | K-F                       | 0 / 1753                  | 0.22 (1) |
| Q-G    | -3428 / 0                 | -102.1                    | -102.1 0.30 (1)           | 4.74  | C-K                       | 0 / 1753                  | 0.22 (1) |
| H-G    | -3086 / 0                 | 0.0                       | 0.0 0.38 (1)              | 6.58  | K-P                       | 0 / 1753                  | 0.22 (1) |
| O-A    | -1831 / 0                 | 0.0                       | 0.0 0.10 (1)              | 7.91  |                           |                           |          |
| O-N    | 0 / 0                     | -17.5                     | -17.5 0.02 (4)            | 10.00 |                           |                           |          |
| N-M    | 0 / 1694                  | -17.5                     | -17.5 0.16 (1)            | 10.00 |                           |                           |          |
| M-L    | 0 / 3049                  | -17.5                     | -17.5 0.31 (1)            | 10.00 |                           |                           |          |
| L-K    | 0 / 3049                  | -17.5                     | -17.5 0.31 (1)            | 10.00 |                           |                           |          |
| K-R    | 0 / 3428                  | -17.5                     | -17.5 0.65 (1)            | 10.00 |                           |                           |          |
| R-J    | 0 / 3428                  | -17.5                     | -17.5 0.85 (1)            | 10.00 |                           |                           |          |
| J-S    | 0 / 0                     | -17.5                     | -17.5 0.18 (1)            | 10.00 |                           |                           |          |
| S-I    | 0 / 0                     | -17.5                     | -17.5 0.18 (1)            | 10.00 |                           |                           |          |
| I-H    | 0 / 0                     | -17.5                     | -17.5 0.18 (1)            | 10.00 |                           |                           |          |

FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1   | MAX.  | MAX+ | FACE  | DIR. | TYPE  | HEEL |
|----|--------|-------|-------|------|-------|------|-------|------|
| F  | 17-1-4 | -123  | -123  | -    | FRONT | VERT | TOTAL | -    |
| I  | 21-1-4 | -27   | -27   | -    | FRONT | VERT | TOTAL | -    |
| J  | 17-1-4 | -25   | -25   | -    | FRONT | VERT | TOTAL | -    |
| P  | 19-1-4 | -123  | -123  | -    | FRONT | VERT | TOTAL | -    |
| Q  | 21-1-4 | -134  | -134  | -    | FRONT | VERT | TOTAL | -    |
| R  | 15-1-0 | -1829 | -1829 | -    | FRONT | VERT | TOTAL | -    |
| S  | 19-1-4 | -25   | -25   | -    | FRONT | VERT | TOTAL | -    |

TOTAL WEIGHT = 4 X 104 = 414 lb

DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

SPACING = 24.0 IN./C/G

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(55% OF 37.8 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 26.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.73")  
CALCULATED VERT. DEFL. (LL) = L/896 (0.08")  
ALLOWABLE DEFL. (TL) = L/890 (0.73")  
CALCULATED VERT. DEFL. (TL) = L/896 (0.15")

CSI: TO=0.39/1.00 (G-H); EC=0.65/1.00 (J-K);  
WB=0.54/1.00 (G-J); SS=0.48/1.00 (J-K)

DOL LUMBER=1.00 NAIL=1.00 LB 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)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1987 1665

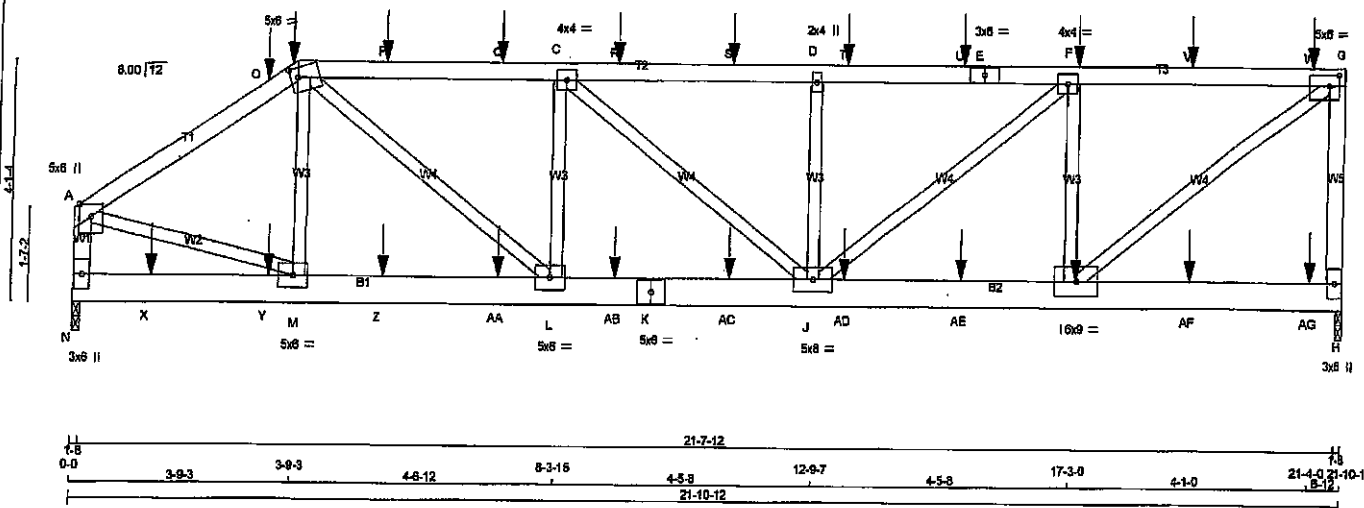
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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

DRWG NO. TAM 17405373  
STRUCTURAL  
COMPONENT ONLY

|                                                                                     |                           |                      |                 |                                                                                    |          |
|-------------------------------------------------------------------------------------|---------------------------|----------------------|-----------------|------------------------------------------------------------------------------------|----------|
| JOB NAME<br><b>401794</b>                                                           | TRUSS NAME<br><b>T18Z</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREEN PARK HOMES</b>                                               | DRWG NO. |
| Tamarack Roof Truss, Burlington                                                     |                           |                      |                 | Version 6.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 15:46:24 2019 Page 1 |          |
| ID: FkpukmLuzMYa3V15rZ5b8_zdJ7d-CNVhAbtGQHONen2?VeNAEXtEBVzToljNMPnZgBj             |                           |                      |                 | 21-4-0 21-10-12                                                                    |          |
| 0-0 3-4-0 3-4-0 3-9-3 4-8-12 5-3-16 4-5-8 12-9-7 4-5-8 17-3-0 4-1-0 21-4-0 21-10-12 |                           |                      |                 | Scale = 1:38.4                                                                     |          |



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

ALL WEBS 2x3 DRY No.2  
EXCEPT

DRY, SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF)   |
|------------------------------------------|----------------------|-------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |             |
| A-B 1 12                                 |                      | SIDE(61.0)  |
| B-E 1 12                                 |                      | SIDE(61.0)  |
| E-G 1 12                                 |                      | SIDE(61.0)  |
| G-H 1 12                                 |                      | TOP         |
| N-A 1 12                                 |                      | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| N-K 2 12                                 |                      | SIDE(0.0)   |
| K-H 2 12                                 |                      | SIDE(163.1) |
| 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) | W    | LEN | Y   | X         |
|-----------------------------|------|-----|-----|-----------|
| JT TYPE                     |      |     |     |           |
| A TMVW+p                    | MT20 | 5.0 | 6.0 | Edge      |
| B TTWW-m                    | MT20 | 5.0 | 6.0 | 2.00 1.50 |
| C TMVW-t                    | MT20 | 4.0 | 4.0 |           |
| D TMVW-w                    | MT20 | 2.0 | 4.0 |           |
| E TS-t                      | MT20 | 3.0 | 6.0 |           |
| F TMVW-l                    | MT20 | 4.0 | 4.0 |           |
| G TMVW-t                    | MT20 | 5.0 | 6.0 | 2.25 2.00 |
| H BMV1+p                    | MT20 | 3.0 | 6.0 |           |
| I BMVW-t                    | MT20 | 6.0 | 9.0 |           |
| J BMVW-w                    | MT20 | 5.0 | 6.0 |           |
| K BS-t                      | MT20 | 5.0 | 6.0 |           |
| L BMVW-t                    | MT20 | 5.0 | 6.0 |           |
| M BMVW-l                    | MT20 | 5.0 | 6.0 |           |
| N BMV1+p                    | MT20 | 3.0 | 6.0 |           |

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | DOWN                            | UPLIFT    | IN-SX    |
| H        | 2250                    | 0                               | 0         | 1-8      |
| N        | 2301                    | 0                               | 0         | 1-8      |

| UNFACTORED REACTIONS | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS        |
|----------------------|-----------|-------------------------------------|
| JT                   | COMBINED  | SNOW LIVE PERM. LIVE WIND DEAD SOIL |
| H                    | 1585      | 1077 / 0 0 / 0 0 / 0 508 / 0 0 / 0  |
| N                    | 1618      | 1113 / 0 0 / 0 0 / 0 505 / 0 0 / 0  |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.80 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. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) | MAX. UNBRACED LENGTH (FT) | WEBS  | MAX. FACTORED MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
|--------|---------------------|---------------------------|---------------------------|---------------|---------------------------|-------|---------------------|---------------------------|---------------|
| FR-TO  |                     |                           |                           |               |                           | FR-TO |                     |                           |               |
| A-O    | -2482 / 0           |                           | -102.1                    | -102.1        | 0.19 (1)                  | 5.52  | M-B                 | -491 / 0                  | 0.08 (1)      |
| O-B    | -2482 / 0           |                           | -102.1                    | -102.1        | 0.19 (1)                  | 5.52  | A-M                 | 0 / 2185                  | 0.27 (1)      |
| B-P    | -3248 / 0           |                           | -102.1                    | -102.1        | 0.32 (1)                  | 4.60  | I-G                 | 0 / 2911                  | 0.36 (1)      |
| P-Q    | -3248 / 0           |                           | -102.1                    | -102.1        | 0.32 (1)                  | 4.60  | B-L                 | 0 / 1513                  | 0.19 (1)      |
| Q-C    | -3248 / 0           |                           | -102.1                    | -102.1        | 0.32 (1)                  | 4.60  | I-F                 | -1680 / 0                 | 0.21 (1)      |
| C-R    | -3229 / 0           |                           | -102.1                    | -102.1        | 0.32 (1)                  | 4.82  | L-C                 | -912 / 0                  | 0.10 (1)      |
| R-S    | -3229 / 0           |                           | -102.1                    | -102.1        | 0.32 (1)                  | 4.82  | C-F                 | -912 / 0                  | 0.10 (1)      |
| S-D    | -3229 / 0           |                           | -102.1                    | -102.1        | 0.32 (1)                  | 4.82  |                     |                           |               |
| D-T    | -3229 / 0           |                           | -102.1                    | -102.1        | 0.31 (1)                  | 4.83  |                     |                           |               |
| T-U    | -3229 / 0           |                           | -102.1                    | -102.1        | 0.31 (1)                  | 4.83  |                     |                           |               |
| U-E    | -3229 / 0           |                           | -102.1                    | -102.1        | 0.31 (1)                  | 4.83  |                     |                           |               |
| E-F    | -3229 / 0           |                           | -102.1                    | -102.1        | 0.31 (1)                  | 4.83  |                     |                           |               |
| F-V    | -2271 / 0           |                           | -102.1                    | -102.1        | 0.28 (1)                  | 5.55  |                     |                           |               |
| V-W    | -2271 / 0           |                           | -102.1                    | -102.1        | 0.28 (1)                  | 5.55  |                     |                           |               |
| W-G    | -2271 / 0           |                           | -102.1                    | -102.1        | 0.28 (1)                  | 5.55  |                     |                           |               |
| G-H    | -2170 / 0           |                           | 0.0                       | 0.0           | 0.27 (1)                  | 7.55  |                     |                           |               |
| H-A    | -2170 / 0           |                           | 0.0                       | 0.0           | 0.13 (1)                  | 7.4   |                     |                           |               |

| FR-TO | LOC.     | LC1 | MAX.  | MAX+  | FACE     | DIR.  | TYPE | HEEL | CONN. |
|-------|----------|-----|-------|-------|----------|-------|------|------|-------|
| N-X   | 0 / 0    |     | -18.5 | -18.5 | 0.03 (4) | 10.00 |      |      |       |
| X-Y   | 0 / 0    |     | -18.5 | -18.5 | 0.03 (4) | 10.00 |      |      |       |
| Y-M   | 0 / 0    |     | -18.5 | -18.5 | 0.03 (4) | 10.00 |      |      |       |
| M-Z   | 0 / 2075 |     | -18.5 | -18.5 | 0.16 (1) | 10.00 |      |      |       |
| Z-AA  | 0 / 2075 |     | -18.5 | -18.5 | 0.16 (1) | 10.00 |      |      |       |
| AA-L  | 0 / 2075 |     | -18.5 | -18.5 | 0.16 (1) | 10.00 |      |      |       |
| L-AB  | 0 / 3248 |     | -18.5 | -18.5 | 0.25 (1) | 10.00 |      |      |       |
| AB-K  | 0 / 3248 |     | -18.5 | -18.5 | 0.25 (1) | 10.00 |      |      |       |
| K-AC  | 0 / 3248 |     | -18.5 | -18.5 | 0.25 (1) | 10.00 |      |      |       |
| AC-J  | 0 / 3248 |     | -18.5 | -18.5 | 0.25 (1) | 10.00 |      |      |       |
| J-AD  | 0 / 2271 |     | -18.5 | -18.5 | 0.18 (1) | 10.00 |      |      |       |
| AD-AE | 0 / 2271 |     | -18.5 | -18.5 | 0.18 (1) | 10.00 |      |      |       |
| AE-I  | 0 / 2271 |     | -18.5 | -18.5 | 0.18 (1) | 10.00 |      |      |       |
| I-AF  | 0 / 0    |     | -18.5 | -18.5 | 0.04 (4) | 10.00 |      |      |       |
| AF-AG | 0 / 0    |     | -18.5 | -18.5 | 0.04 (4) | 10.00 |      |      |       |
| AG-H  | 0 / 0    |     | -18.5 | -18.5 | 0.04 (4) | 10.00 |      |      |       |

| FACTORED CONCENTRATED LOADS (LBS) | JT     | LOC. | LC1  | MAX. | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|-----------------------------------|--------|------|------|------|------|-------|------|-------|------|-------|
| B                                 | 3-9-3  | -50  | -56  |      |      | FRONT | VERT | DEAD  |      |       |
| S                                 | 3-9-3  | -285 | -285 |      |      | FRONT | VERT | SNOW  |      |       |
| F                                 | 17-4-0 | -123 | -123 |      |      | BACK  | VERT | TOTAL |      |       |

### DESIGN CRITERIA

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

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 5.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, CBC 2012  
- CSA 088-08, CSA 088-14  
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(LL) = L/899 (0.05")  
ALLOWABLE DEFL.(TL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.32/1.00 (B-C:1), BC=0.25/1.00 (J-L:1), WB=0.36/1.00 (G-I:1), SSI=0.19/1.00 (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

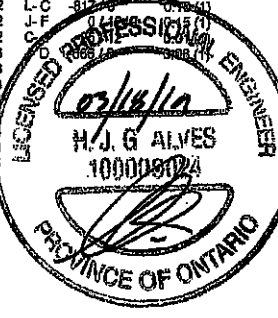
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 768 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.77 (A) (INPUT = 0.80)  
JSI METAL= 0.46 (A) (INPUT = 1.00)



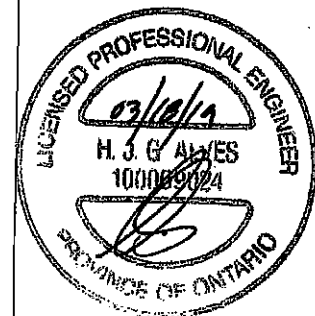
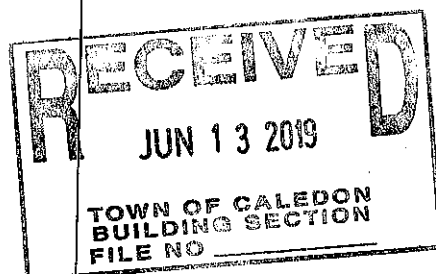
DRWG NO. TAM1905419  
STRUCTURAL  
COMPONENT ONLY 1/2

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T18Z       | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

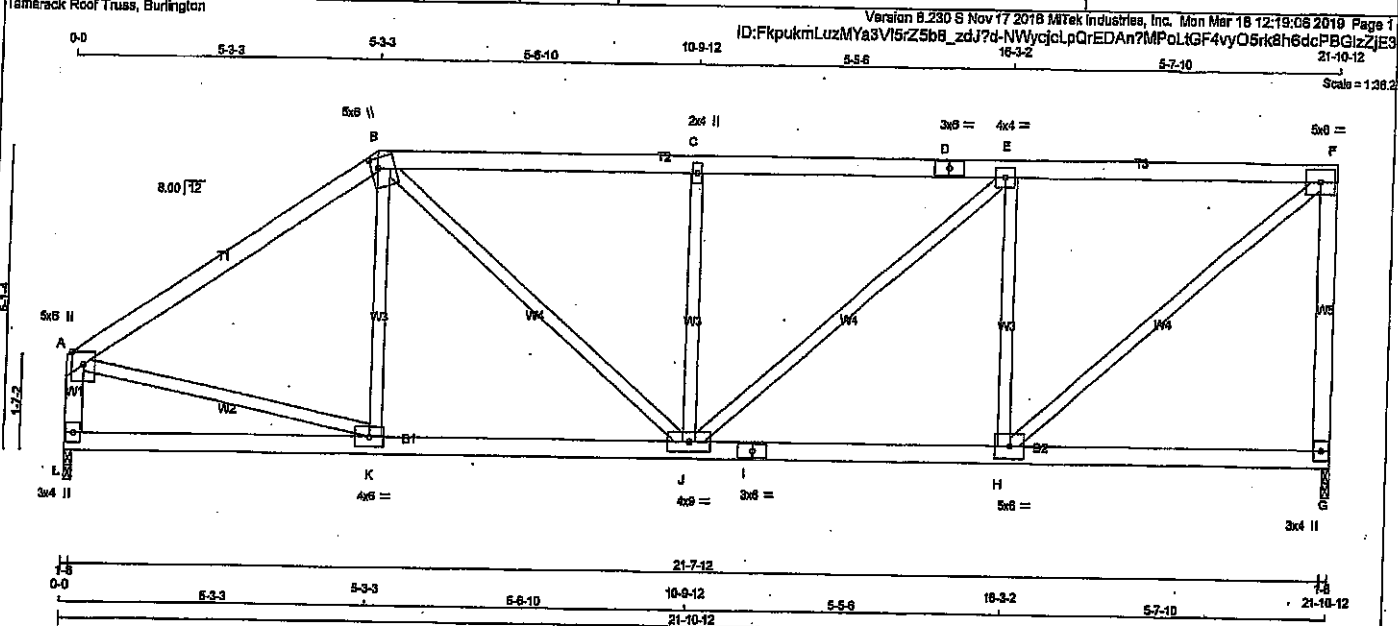
Version 6.230 S Nov 17 2018 MiTek Industries, Inc. Mon Mar 18 15:46:24 2019 Page 2  
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| FACTORED CONCENTRATED LOADS (LBS) |        |      |      |      |      |      |       |      |       |
|-----------------------------------|--------|------|------|------|------|------|-------|------|-------|
| JT                                | LOC.   | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
| I                                 | 17-4-0 | -28  | -28  | —    | BACK | VERT | TOTAL | —    | —     |
| O                                 | 3-4-0  | -152 | -152 | —    | BACK | VERT | TOTAL | —    | —     |
| P                                 | 5-4-0  | -123 | -123 | —    | BACK | VERT | TOTAL | —    | —     |
| Q                                 | 7-4-0  | -123 | -123 | —    | BACK | VERT | TOTAL | —    | —     |
| R                                 | 9-4-0  | -123 | -123 | —    | BACK | VERT | TOTAL | —    | —     |
| S                                 | 11-4-0 | -123 | -123 | —    | BACK | VERT | TOTAL | —    | —     |
| T                                 | 13-4-0 | -123 | -123 | —    | BACK | VERT | TOTAL | —    | —     |
| U                                 | 15-4-0 | -123 | -123 | —    | BACK | VERT | TOTAL | —    | —     |
| V                                 | 19-4-0 | -123 | -123 | —    | BACK | VERT | TOTAL | —    | —     |
| W                                 | 21-4-0 | -145 | -145 | —    | BACK | VERT | TOTAL | —    | —     |
| X                                 | 1-4-0  | -28  | -28  | —    | BACK | VERT | TOTAL | —    | —     |
| Y                                 | 3-4-0  | -28  | -28  | —    | BACK | VERT | TOTAL | —    | —     |
| Z                                 | 5-4-0  | -28  | -28  | —    | BACK | VERT | TOTAL | —    | —     |
| AA                                | 7-4-0  | -28  | -28  | —    | BACK | VERT | TOTAL | —    | —     |
| AB                                | 9-4-0  | -28  | -28  | —    | BACK | VERT | TOTAL | —    | —     |
| AC                                | 11-4-0 | -28  | -28  | —    | BACK | VERT | TOTAL | —    | —     |
| AD                                | 13-4-0 | -28  | -28  | —    | BACK | VERT | TOTAL | —    | —     |
| AE                                | 15-4-0 | -28  | -28  | —    | BACK | VERT | TOTAL | —    | —     |
| AF                                | 19-4-0 | -28  | -28  | —    | BACK | VERT | TOTAL | —    | —     |
| AG                                | 21-4-0 | -30  | -30  | —    | BACK | VERT | TOTAL | —    | —     |



DWG NO. TAM 71905419  
STRUCTURAL  
COMPONENT ONLY 3/2

|                                 |            |             |     |                                                                                    |          |
|---------------------------------|------------|-------------|-----|------------------------------------------------------------------------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.                                                                          | DRWG NO. |
| 401769                          | T19        | 2           | 1   | GREEN PARK HOMES                                                                   |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     | Version B.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 12:19:06 2019 Page 1 |          |



| LUMBER                |      |     |        |
|-----------------------|------|-----|--------|
| N. L. G. A. RULES     | SIZE | DRY | LUMBER |
| CHORDS                |      |     |        |
| A - B                 | 2x4  | DRY | No.2   |
| B - D                 | 2x4  | DRY | No.2   |
| D - F                 | 2x4  | DRY | No.2   |
| G - F                 | 2x4  | DRY | No.2   |
| L - A                 | 2x4  | DRY | No.2   |
| L - I                 | 2x4  | DRY | No.2   |
| I - G                 | 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    |
|----|--------|--------|-----|-----|------|------|
| A  | TMVW+p | MT20   | 5.0 | 6.0 | Edge |      |
| B  | TTWW+m | MT20   | 5.0 | 6.0 | 2.00 | 1.50 |
| C  | TMVW+w | MT20   | 2.0 | 4.0 |      |      |
| D  | TS-t   | MT20   | 3.0 | 6.0 |      |      |
| E  | TMVW-t | MT20   | 4.0 | 4.0 |      |      |
| F  | TMVW-t | MT20   | 5.0 | 6.0 |      |      |
| G  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| I  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| J  | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| K  | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| L  | 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       | VERT | HORZ | MAXIMUM FACTORED GROSS REACTION |
| G        | 1309 | 0    | 1309                            |
| L        | 1309 | 0    | 1309                            |

| UNFACTORED REACTIONS |          |      |      |
|----------------------|----------|------|------|
| JT                   | COMBINED | SNOW | LIVE |
| G                    | 920      | 636  | 0    |
| L                    | 920      | 636  | 0    |

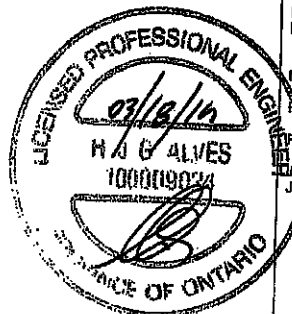
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) G, L

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.68 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS |                           |                           |                           |
|--------|---------------------------|---------------------------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. UNBRACED LENGTH (FT) |
| FR-TO  |                           |                           |                           |
| A-B    | -1331                     | -102.1                    | 10.07                     |
| B-C    | -1555                     | -102.1                    | 10.48                     |
| C-D    | -1555                     | -102.1                    | 10.50                     |
| D-E    | -1555                     | -102.1                    | 10.50                     |
| E-F    | -1213                     | -102.1                    | 10.47                     |
| G-F    | -1269                     | 0.0                       | 10.66                     |
| L-A    | -1272                     | 0.0                       | 10.13                     |
| L-K    | 0                         | -17.5                     | 10.12                     |
| K-J    | 0                         | -17.5                     | 10.25                     |
| J-I    | 0                         | -17.5                     | 10.26                     |
| I-H    | 0                         | -17.5                     | 10.26                     |
| H-G    | 0                         | -17.5                     | 10.43                     |



#### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2010, CBC 2012  
- CSA 086-04, CSA 086-14  
- TFC 2011, TFC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) =  $L/360$  (0.73")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.08")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.73")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.10")

CSI: TC=0.57/1.00 (A-B:1), BC=0.26/1.00 (H-J:1), WB=0.35/1.00 (F-H:1), SS=0.27/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**  
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1867 788 1867 1659

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

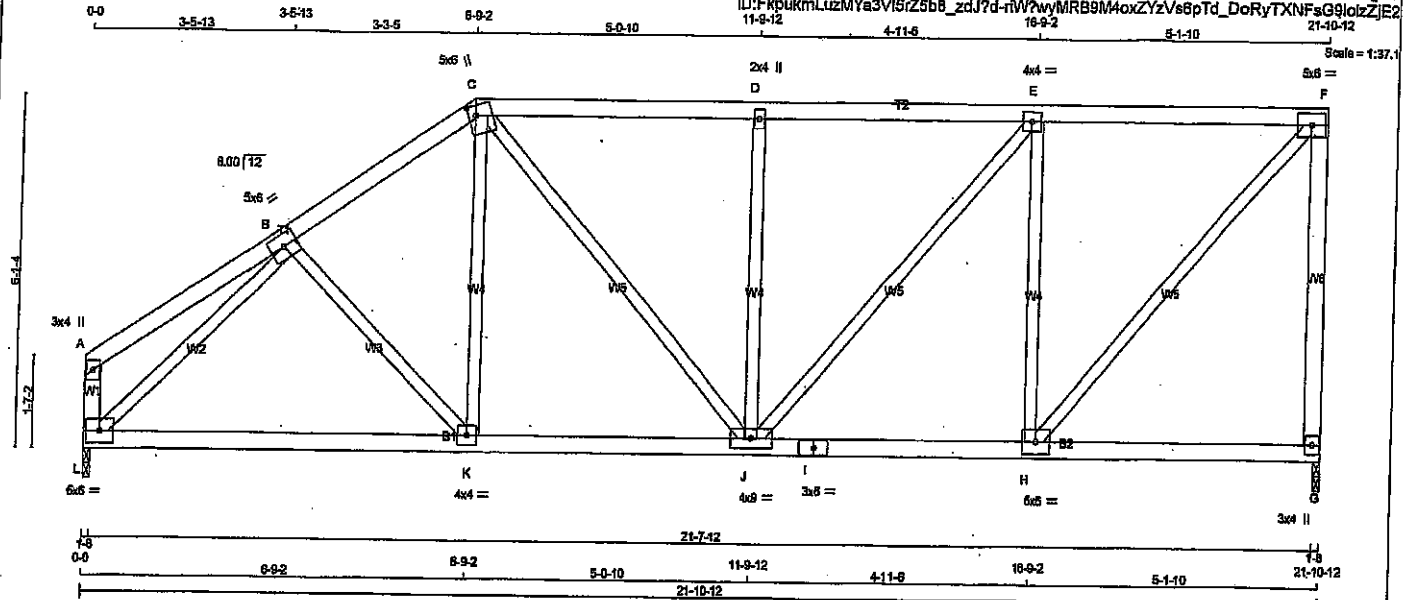
GRIP=0.82 (A) (INPUT=0.80)  
JG METAL=0.54 (A) (INPUT=1.00)

DRWG NO. TAM 1905374  
STRUCTURAL  
COMPONENT ONLY

| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.        | DRWG NO. |
|---------------------------------|------------|-------------|-----|------------------|----------|
| 401769                          | T20        | 2           | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                  |          |

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TOTAL WEIGHT = 2 X 99 = 198 lb

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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) | JT TYPE | PLATES | W   | LEN | Y    | X    |
|-----------------------------|---------|--------|-----|-----|------|------|
| A                           | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| B                           | TMVW-1  | MT20   | 5.0 | 6.0 |      |      |
| C                           | TTVW+m  | MT20   | 5.0 | 6.0 | 2.00 | 1.50 |
| D                           | TMVW+w  | MT20   | 2.0 | 4.0 |      |      |
| E                           | TMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| F                           | TMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| G                           | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| H                           | BMVW-1  | MT20   | 5.0 | 6.0 |      |      |
| I                           | BS-t    | MT20   | 3.0 | 6.0 |      |      |
| J                           | BMVWV-t | MT20   | 4.0 | 9.0 |      |      |
| K                           | BMVW-1  | MT20   | 4.0 | 4.0 |      |      |
| L                           | BMVW-1  | MT20   | 5.0 | 6.0 |      |      |

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | DOWN                            | UP        | IN-SX    |
| G        | 1309                    | 0                               | 1-8       | 1-8      |
| L        | 1309                    | 0                               | 1-8       | 1-8      |

| UNFACTORED REACTIONS | 1ST CASE | MAX/MIN COMPONENT REACTIONS |
|----------------------|----------|-----------------------------|
| JT                   | COMBINED | SNOW                        |
| G                    | 820      | 838/0                       |
| L                    | 920      | 636/0                       |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.21 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

| CHORDS | MAX. FACTORED | FACTORED | VERT. LOAD | LC1      | MAX   | CS1 (LC) | UNBRAC | LENGTH   | FR-TO    | MEMB. | MAX. FACTORED | FORCE | MAX | CS1 (LC) |
|--------|---------------|----------|------------|----------|-------|----------|--------|----------|----------|-------|---------------|-------|-----|----------|
| A-B    | 0/21          | -102.1   | -102.1     | 0.17 (1) | 10.00 | 5.43     | K-C    | -157/0   | 0.04 (4) |       |               |       |     |          |
| B-C    | -1305/0       | -102.1   | -102.1     | 0.20 (1) | 5.24  | L-B      | -157/0 | 0.59 (1) |          |       |               |       |     |          |
| C-D    | -1269/0       | -102.1   | -102.1     | 0.37 (1) | 5.21  | H-F      | 0/1415 | 0.32 (1) |          |       |               |       |     |          |
| D-E    | -1269/0       | -102.1   | -102.1     | 0.38 (1) | 5.88  | C-J      | 0/305  | 0.07 (1) |          |       |               |       |     |          |
| E-F    | -937/0        | -102.1   | -102.1     | 0.38 (1) | 7.61  | H-E      | -957/0 | 0.58 (1) |          |       |               |       |     |          |
| G-F    | -1273/0       | 0.0      | 0.0        | 0.92 (1) | 7.61  | J-D      | -582/0 | 0.32 (1) |          |       |               |       |     |          |
| L-A    | -135/0        | 0.0      | 0.0        | 0.01 (1) | 10.00 | J-E      | 0/513  | 0.12 (1) |          |       |               |       |     |          |
| L-K    | 0/1077        | -17.5    | -17.5      | 0.27 (1) | 10.00 |          |        |          |          |       |               |       |     |          |
| K-J    | 0/1089        | -17.5    | -17.5      | 0.27 (1) | 10.00 |          |        |          |          |       |               |       |     |          |
| J-I    | 0/937         | -17.5    | -17.5      | 0.21 (1) | 10.00 |          |        |          |          |       |               |       |     |          |
| I-H    | 0/937         | -17.5    | -17.5      | 0.21 (1) | 10.00 |          |        |          |          |       |               |       |     |          |
| H-G    | 0/0           | -17.5    | -17.5      | 0.11 (4) | 10.00 |          |        |          |          |       |               |       |     |          |

#### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")  
ALLOWABLE DEFL.(TL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CS1: TC=0.82/1.00 (F-G:1), BC=0.27/1.00 (K-L:1), WB=0.59/1.00 (B-L: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 GRP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1867 788 1987 1658

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.76 (H) (INPUT = 0.80)  
JSI METAL= 0.36 (B) (INPUT = 1.00)



DRWG NO. TAM 1745375  
STRUCTURAL  
COMPONENT ONLY

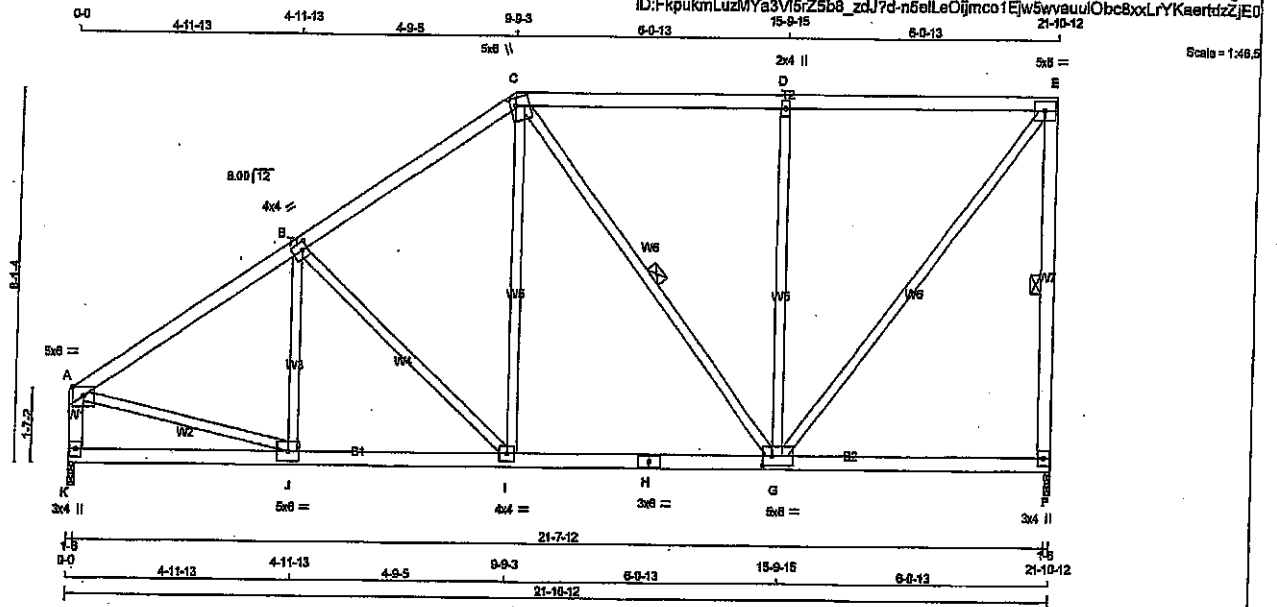
Structural drawing of a truss bridge. The drawing includes dimensions for spans (0-0 to 21-10-12) and heights (4-2-13, 4-0-5, 8-9-13, 15-0-15, 6-9-13). Key points are labeled A, B, C, D, E, F, G, H, I, J, K. Members are labeled with numbers (1-12) and types (e.g., 5x6 II, 4x4, 3x4 II, W8, W6, W12). A scale of 1:41.5 is indicated.

DWG NO. TAM 77405376  
STRUCTURAL  
COMPONENT ONLY

|                    |                   |               |          |                               |             |          |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|
| JOB NAME<br>401769 | TRUSS NAME<br>T22 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | TRUSS DESC. | DRWG NO. |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|

Tamrack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 103 = 205 lb

| LUMBER | N.L.G.A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|--------|----------------|--------|------|--------|--------|
| A - C  | 2x4 DRY        | No.2   | SPF  |        |        |
| C - E  | 2x4 DRY        | No.2   | SPF  |        |        |
| E - G  | 2x4 DRY        | No.2   | SPF  |        |        |
| G - I  | 2x4 DRY        | No.2   | SPF  |        |        |
| K - H  | 2x4 DRY        | No.2   | SPF  |        |        |
| H - 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         |
|---------|----------|------|-----|-----|-----------|
| A       | TMVW-p   | MT20 | 5.0 | 8.0 | Edge      |
| B       | TMVW-t   | MT20 | 4.0 | 4.0 | 2.00 1.50 |
| C       | TTWW-t-m | MT20 | 5.0 | 8.0 | 2.00 1.50 |
| D       | TMVW-w   | MT20 | 2.0 | 4.0 |           |
| E       | TMVW-t   | MT20 | 5.0 | 8.0 |           |
| F       | BMV1-p   | MT20 | 3.0 | 4.0 |           |
| G       | BMVWW-t  | MT20 | 5.0 | 8.0 | 2.50 2.50 |
| H       | BS-t     | MT20 | 3.0 | 8.0 |           |
| I       | BMVW-t   | MT20 | 4.0 | 4.0 |           |
| J       | BMVW-t   | MT20 | 5.0 | 8.0 |           |
| K       | 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                    | DOWN                            | UP        | IN-SX    |
| F        | 1309                    | 0                               | 0         | 1-8      |
| K        | 1309                    | 0                               | 0         | 1-8      |

#### UNFACTORED REACTIONS

| 1ST CASE | MAX/MIN COMPONENT REACTIONS | DEAD    | SOIL  |
|----------|-----------------------------|---------|-------|
| JT       | COMBINED                    |         |       |
| F        | 920                         | 636 / 0 | 0 / 0 |
| K        | 920                         | 636 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.98 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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                 |       |             |               |
|---------------|-------------|------------------|-------------------|----------------------|-------|-------------|---------------|
| MAX. FACTORED |             | FACTORED         |                   | MAX. FACTORED        |       | FACTORED    |               |
| MEMB.         | FORCE (LBS) | VERT. LOAD (LBS) | LC1 MAX. CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | FORCE (LBS) | MAX. CSI (LC) |
| FR-TO         |             | FROM TO          |                   |                      | FR-TO |             |               |
| A-B           | -1370 / 0   | -102.1 -102.1    | 0.47 (1)          | 4.98                 | J-B   | -207 / 16   | 0.07 (1)      |
| B-C           | -1128 / 0   | -102.1 -102.1    | 0.45 (1)          | 5.36                 | B-I   | -354 / 0    | 0.29 (1)      |
| C-D           | -804 / 0    | -102.1 -102.1    | 0.67 (1)          | 5.53                 | I-C   | 0 / 334     | 0.08 (1)      |
| D-E           | -804 / 0    | -102.1 -102.1    | 0.67 (1)          | 5.52                 | C-G   | -179 / 0    | 0.12 (1)      |
| E-F           | -1268 / 0   | 0.0 0.0          | 0.38 (1)          | 5.73                 | G-D   | -768 / 0    | 0.97 (1)      |
| K-A           | -1272 / 0   | 0.0 0.0          | 0.13 (1)          | 7.14                 | D-E   | 0 / 1306    | 0.29 (1)      |
|               |             |                  |                   |                      | A-J   | 0 / 1204    | 0.27 (1)      |
| K-J           | 0 / 0       | -17.5 -17.5      | 0.09 (4)          | 10.00                |       |             |               |
| J-I           | 0 / 1167    | -17.5 -17.5      | 0.24 (1)          | 10.00                |       |             |               |
| I-H           | 0 / 814     | -17.5 -17.5      | 0.23 (1)          | 10.00                |       |             |               |
| H-G           | 0 / 814     | -17.5 -17.5      | 0.23 (1)          | 10.00                |       |             |               |
| G-F           | 0 / 0       | -17.5 -17.5      | 0.16 (4)          | 10.00                |       |             |               |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 28.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(65 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.67/1.00 (D-E:1), BC=0.24/1.00 (J-I:1),  
WB=0.97/1.00 (D-G:1), SS=0.30/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

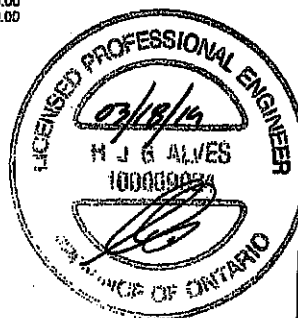
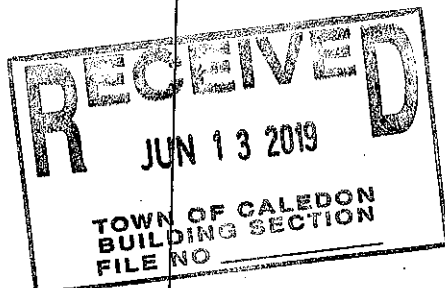
NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1987 1668

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.78 (A) (INPUT = 0.80)  
JSI METAL= 0.33 (H) (INPUT = 1.00)

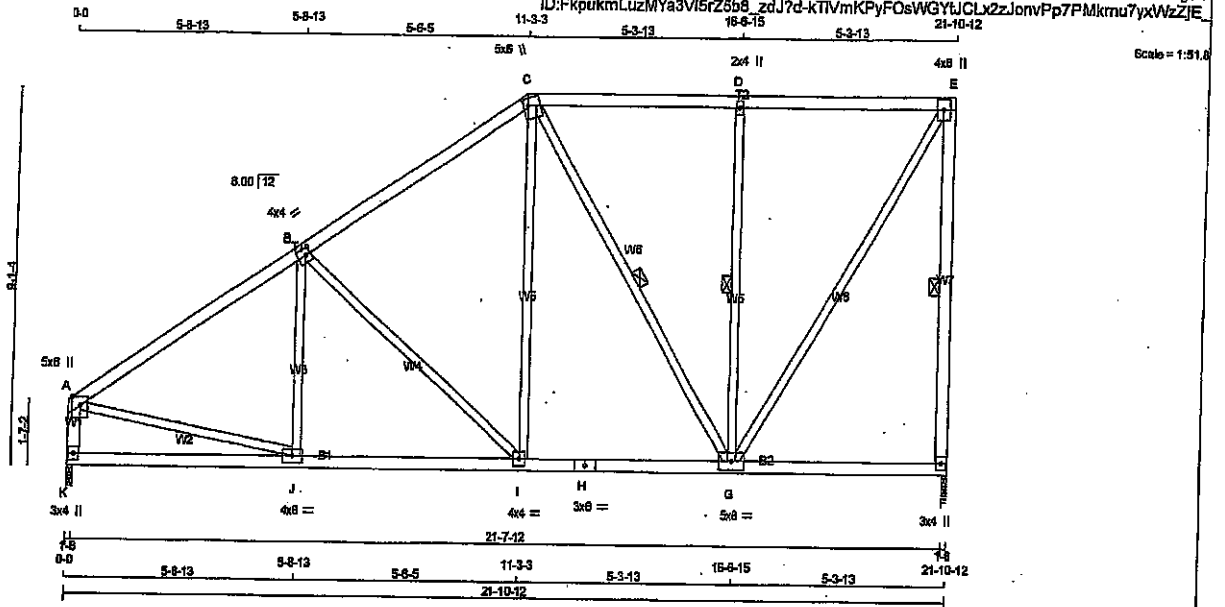
DWG NO. TAM 17405377  
STRUCTURAL  
COMPONENT ONLY



| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
|----------|------------|----------|-----|-------------|------------------|----------|
| 401769   | T23        | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 108 = 216 lb

#### LUMBER

| N.L.G.A. RULES | CHORDS | SIZE | DRY  |
|----------------|--------|------|------|
| A - C          | 2x4    | DRY  | No.2 |
| C - E          | 2x4    | DRY  | No.2 |
| E - G          | 2x4    | DRY  | No.2 |
| G - I          | 2x4    | DRY  | No.2 |
| I - K          | 2x4    | DRY  | No.2 |
| H - F          | 2x4    | DRY  | No.2 |

| LUMBER | DESCR. |
|--------|--------|
| No.2   | SPF    |
| No.2   | SPF    |
| No.2   | SPF    |
| No.2   | SPF    |
| No.2   | SPF    |
| No.2   | SPF    |

ALL WEBS 2x4 DRY EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT TYPE | PLATES  | W    | LEN | Y   | X         |
|---------|---------|------|-----|-----|-----------|
| A       | TMVW+p  | MT20 | 5.0 | 6.0 | Edge      |
| B       | TMVW-t  | MT20 | 4.0 | 4.0 | 2.00 1.50 |
| C       | TTVW+m  | MT20 | 5.0 | 6.0 | 2.00 1.50 |
| D       | TMVW-w  | MT20 | 2.0 | 4.0 |           |
| E       | TMVW+p  | MT20 | 4.0 | 6.0 |           |
| F       | BMV1+p  | MT20 | 3.0 | 4.0 |           |
| G       | BMVWV-t | MT20 | 5.0 | 8.0 |           |
| H       | BS-t    | MT20 | 3.0 | 6.0 |           |
| I       | BMVW-t  | MT20 | 4.0 | 4.0 |           |
| J       | BMVW-t  | MT20 | 4.0 | 6.0 |           |
| K       | 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     |
| F  | 1309                    | 0                               | 1309      | 0        |
| K  | 1309                    | 0                               | 1309      | 0        |

##### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |       |           |       |         |       |
|-----------|----------|-------------------------------|-------|-----------|-------|---------|-------|
| JT        | COMBINED | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| F         | 920      | 638 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 285 / 0 | 0 / 0 |
| K         | 920      | 638 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 285 / 0 | 0 / 0 |

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

##### 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-F, C-G, D-G.

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)

| MEMB. | CHORDS    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PL) | MAX. UNBRACED LENGTH (L) | MEMB. | WEBS | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (L) |
|-------|-----------|---------------------------|--------------------------|--------------------------|-------|------|---------------------------|--------------------------|
| FR-TO |           |                           |                          |                          | FR-TO |      |                           |                          |
| A-B   | -1973 / 0 | -102.1                    | -102.1                   | 0.48 (1)                 | 4.99  | J-B  | -150 / 48                 | 0.07 (1)                 |
| B-C   | -1019 / 0 | -102.1                    | -102.1                   | 0.43 (1)                 | 5.63  | B-I  | -488 / 0                  | 0.58 (1)                 |
| C-D   | -645 / 0  | -102.1                    | -102.1                   | 0.37 (1)                 | 6.25  | I-C  | 0 / 417                   | 0.09 (1)                 |
| D-E   | -648 / 0  | -102.1                    | -102.1                   | 0.37 (1)                 | 6.25  | C-G  | -336 / 0                  | 0.28 (1)                 |
| E-F   | -1270 / 0 | 0.0                       | 0.0                      | 0.49 (1)                 | 8.71  | G-D  | -572 / 0                  | 0.38 (1)                 |
| K-A   | -1288 / 0 | 0.0                       | 0.0                      | 0.13 (1)                 | 7.15  | G-E  | 0 / 1243                  | 0.28 (1)                 |
|       |           |                           |                          |                          |       | A-J  | 0 / 1203                  | 0.27 (1)                 |
| K-J   | 0 / 0     | -17.5                     | -17.5                    | 0.14 (4)                 | 10.00 |      |                           |                          |
| J-I   | 0 / 1174  | -17.5                     | -17.5                    | 0.28 (1)                 | 10.00 |      |                           |                          |
| I-H   | 0 / 818   | -17.5                     | -17.5                    | 0.19 (1)                 | 10.00 |      |                           |                          |
| H-G   | 0 / 818   | -17.5                     | -17.5                    | 0.19 (1)                 | 10.00 |      |                           |                          |
| G-F   | 0 / 0     | -17.5                     | -17.5                    | 0.12 (4)                 | 10.00 |      |                           |                          |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2010, NBC 2012  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = 1/360 (0.73")  
CALCULATED VERT. DEFL. (LL) = 1/999 (0.04")  
ALLOWABLE DEFL. (TL) = 1/360 (0.73")  
CALCULATED VERT. DEFL. (TL) = 1/999 (0.08")

CSI: TC=0.48/1.00 (E-F), BC=0.28/1.00 (I-J), WB=0.55/1.00 (B-I), SB=0.28/1.00 (D-E)

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

COMPANION LIVE LOAD FACTOR = 1.00

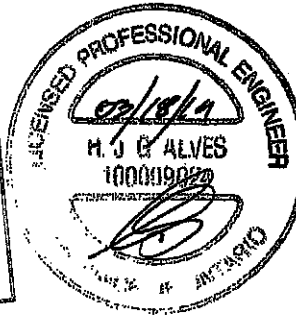
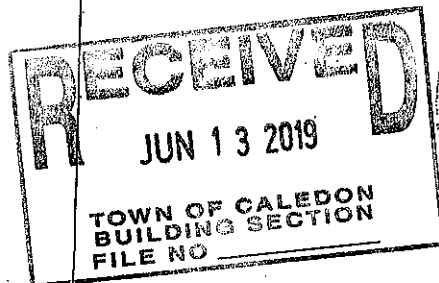
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1687 788 1987 1686

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

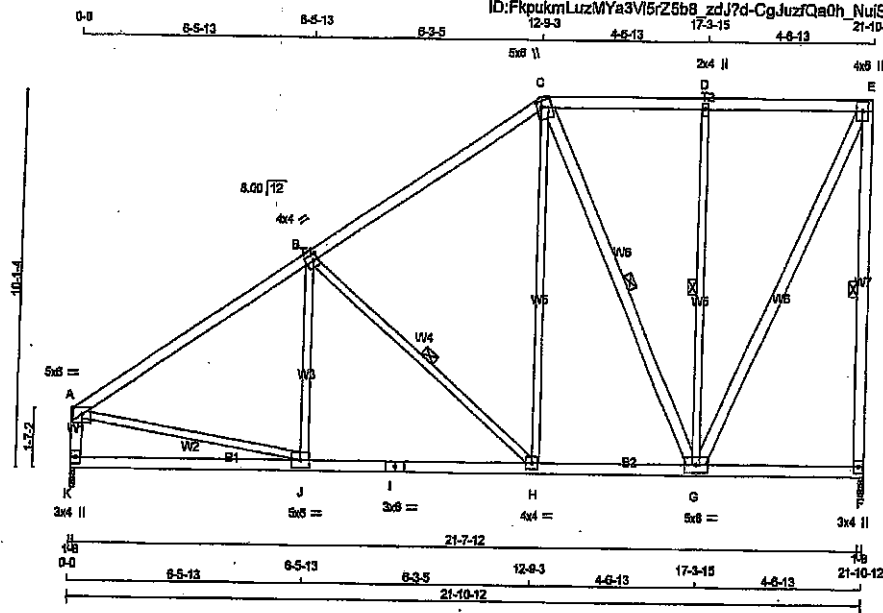
JSI GRIP=0.88 (A) (INPUT = 0.90)  
JSI METAL=0.58 (A) (INPUT = 1.00)



DWG NO. TAM 1705378  
STRUCTURAL  
COMPONENT ONLY

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>401769</b>       | TRUSS NAME<br><b>T24</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                          |          |

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TOTAL WEIGHT = 2 X 121 = 241 lb

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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |         |      |     |               |
|-----------------------------|---------|------|-----|---------------|
| JT TYPE                     | PLATES  | W    | LEN | Y X           |
| A                           | TMWV-p  | MT20 | 5.0 | 6.0 Edge      |
| B                           | TMWV-l  | MT20 | 4.0 | 4.0 2.00 1.50 |
| C                           | TTWV+m  | MT20 | 5.0 | 6.0 2.00 1.50 |
| D                           | TMWV    | MT20 | 2.0 | 4.0           |
| E                           | TMWV+p  | MT20 | 4.0 | 6.0           |
| F                           | BMV1+p  | MT20 | 3.0 | 4.0           |
| G                           | BMWVW-l | MT20 | 5.0 | 8.0           |
| H                           | BMWV-l  | MT20 | 4.0 | 4.0           |
| I                           | BS-l    | MT20 | 3.0 | 6.0           |
| J                           | BMWV-l  | MT20 | 5.0 | 6.0           |
| K                           | 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 IN-SX | REQD BRG IN-SX |
|----------|------|-------------------------|---------------------------------|-----------------|----------------|
| JT       | VERT | HORZ                    | DOWN                            | HORZ            | UPLIFT         |
| F        | 1309 | 0                       | 1309                            | 0               | 1-8            |
| K        | 1309 | 0                       | 1309                            | 0               | 1-8            |

| UNFACTORED REACTIONS |          | 1ST LCASE | MAX/MIN COMPONENT REACTIONS |
|----------------------|----------|-----------|-----------------------------|
| JT                   | COMBINED | SNOW      | LIVE                        |
| F                    | 820      | 636 / 0   | 0 / 0                       |
| K                    | 820      | 636 / 0   | 0 / 0                       |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.75 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-F, B-H, C-G, D-G.

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

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

| CHORDS |                           |                           |                           | WEBS  |                           |                           |  |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |  |
| FR-TO  |                           |                           |                           | FR-TO |                           |                           |  |
| A-B    | -1364 / 0                 | -102.1                    | -102.1 0.60 (1)           | J-B   | -102 / 77                 | 0.06 (1)                  |  |
| B-C    | -900 / 0                  | -102.1                    | -102.1 0.55 (1)           | B-H   | -813 / 0                  | 0.30 (1)                  |  |
| C-D    | -514 / 0                  | -102.1                    | -102.1 0.27 (1)           | H-C   | 0 / 486                   | 0.11 (1)                  |  |
| D-E    | -514 / 0                  | -102.1                    | -102.1 0.27 (1)           | C-G   | -481 / 0                  | 0.30 (1)                  |  |
| E-F    | -1275 / 0                 | 0.0                       | 0.0 0.84 (1)              | G-D   | -575 / 0                  | 0.40 (1)                  |  |
| K-A    | -1283 / 0                 | 0.0                       | 0.0 0.13 (1)              | D-G   | 0 / 1209                  | 0.18 (1)                  |  |
|        |                           |                           |                           | A-J   | 0 / 1193                  | 0.27 (1)                  |  |
| K-J    | 0 / 0                     | -17.5                     | -17.5 0.18 (4)            |       |                           |                           |  |
| J-I    | 0 / 1171                  | -17.5                     | -17.5 0.28 (1)            |       |                           |                           |  |
| I-H    | 0 / 1171                  | -17.5                     | -17.5 0.28 (1)            |       |                           |                           |  |
| H-G    | 0 / 716                   | -17.5                     | -17.5 0.17 (1)            |       |                           |                           |  |
| G-F    | 0 / 0                     | -17.5                     | -17.5 0.08 (4)            |       |                           |                           |  |

### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 42.0 PSF

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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2010, CBC 2012  
- CSA 086-09, CSA 086-14  
- TFC 2011, TFC 2014

(55% OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(LL) = L/699 (0.04")  
ALLOWABLE DEFL.(TL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(TL) = L/699 (0.09")

CSI: TC=0.84/1.00 (E-F:1), BC=0.28/1.00 (H-J:1), VB=0.40/1.00 (D-G:1), SS=0.27/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

| NAIL VALUES     |             |              |      |
|-----------------|-------------|--------------|------|
| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PL) |      |
| MAX             | MIN         | MAX          | MIN  |
| MT20            | 618         | 354          | 1657 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.75 (A) (INPUT = 0.90)  
JSI METAL= 0.40 (I) (INPUT = 1.00)



DRWG NO. TAM **P1905379**  
STRUCTURAL  
COMPONENT ONLY

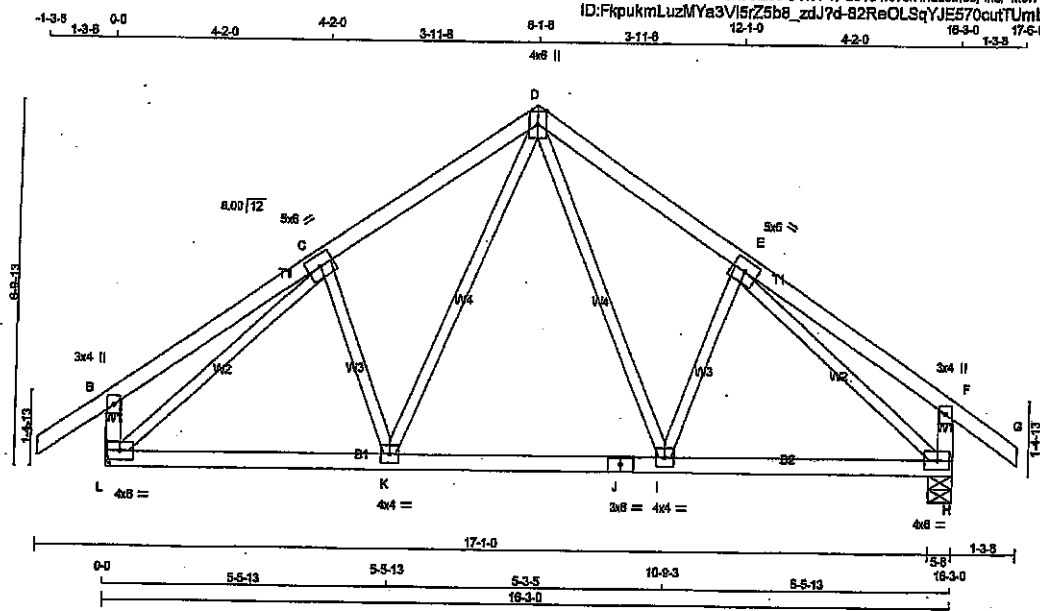
|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401769   | T25        | 4        | 1   | TRUSS DESC. |                  |          |

Tamrack Roof Truss, Burlington

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ID:FpkukmLuzMYa3V15/Z5b8\_zdJ7d-82ReOLSqYJES70cutTumbxQLcdicjRHTsLcXrzZjDx

Scale = 1:40.0



TOTAL WEIGHT = 4 X 72 = 290 lb

#### LUMBER

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

##### CHORDS

A - D 2x4 DRY No.2

D - G 2x4 DRY No.2

L - B 2x4 DRY No.2

H - F 2x4 DRY No.2

L - J 2x4 DRY No.2

J - H 2x4 DRY No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table 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 |      |   |
| D  | TTVW+p | MT20   | 4.0 | 6.0 | Edge |   |
| E  | TMVW-t | MT20   | 5.0 | 6.0 |      |   |
| F  | TMV+p  | MT20   | 3.0 | 4.0 |      |   |
| H  | BMVW-t | MT20   | 4.0 | 6.0 |      |   |
| I  | BMVW-t | MT20   | 4.0 | 4.0 |      |   |
| J  | BS-t   | MT20   | 3.0 | 6.0 |      |   |
| K  | BMVW-t | MT20   | 4.0 | 4.0 |      |   |
| L  | BMVW-t | MT20   | 4.0 | 6.0 |      |   |

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

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

##### BEARINGS

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----|----------------|------------------|-------|------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT | VERT           | HORZ             | DOWN  | HORZ |
| L  | 1112           | 0                | 1112  | 0    |
| H  | 1112           | 0                | 1112  | 0    |

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

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS | PERM. LIVE | WIND | DEAD  | SOIL |
|----|-----------|------------------------------|------------|------|-------|------|
| L  | 778       | 552/0                        | 0/0        | 0/0  | 228/0 | 0/0  |
| H  | 778       | 552/0                        | 0/0        | 0/0  | 228/0 | 0/0  |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.20 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. CS (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS (LC) |  |
| FR-TO  |                           | FROM TO                   |              | FR-TO |                           |              |  |
| A-B    | 0/39                      | -102.1 -102.1             | 0.14 (1)     | D-I   | 0/358                     | 0.08 (1)     |  |
| B-C    | 0/27                      | -102.1 -102.1             | 0.27 (1)     | E-E   | -246/0                    | 0.07 (1)     |  |
| C-D    | -915/0                    | -102.1 -102.1             | 0.22 (1)     | K-D   | 0/358                     | 0.08 (1)     |  |
| D-E    | -915/0                    | -102.1 -102.1             | 0.22 (1)     | C-K   | -246/0                    | 0.07 (1)     |  |
| E-F    | 0/27                      | -102.1 -102.1             | 0.27 (1)     | L-G   | -1133/0                   | 0.57 (1)     |  |
| F-G    | 0/39                      | -102.1 -102.1             | 0.14 (1)     | E-H   | -1133/0                   | 0.57 (1)     |  |
| L-B    | -298/0                    | 0.0 0.0                   | 0.03 (1)     |       |                           |              |  |
| H-F    | -298/0                    | 0.0 0.0                   | 0.03 (1)     |       |                           |              |  |
| L-K    | 0/828                     | -17.5 -17.5               | 0.20 (1)     |       |                           |              |  |
| K-J    | 0/805                     | -17.5 -17.5               | 0.18 (4)     |       |                           |              |  |
| J-I    | 0/805                     | -17.5 -17.5               | 0.16 (4)     |       |                           |              |  |
| I-H    | 0/828                     | -17.5 -17.5               | 0.20 (1)     |       |                           |              |  |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 29.0 | PSF |
| DL         | 6.0       | PSF |
| BOT CH.    | LL = 0.0  | PSF |
| DL         | 7.0       | PSF |
| TOTAL LOAD | 42.0      | PSF |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.54")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.03")  
ALLOWABLE DEFL. (TL) = L/360 (0.54")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.05")

CS: TC=0.27/1.00 (E-F:1), BC=0.20/1.00 (K-L:1),  
WB=0.57/1.00 (E-H:1), SS=0.17/1.00 (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.

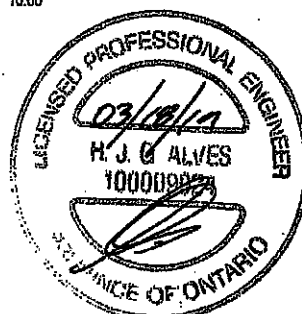
##### NAIL VALUES

| PLATE   | GRIP (DRY) | SHEAR    | SECTION   |
|---------|------------|----------|-----------|
| (PSI)   | (PL)       | (PL)     | (PL)      |
| MAX MIN | MAX MIN    | MAX MIN  | MAX MIN   |
| MT20    | 618 354    | 1667 785 | 1997 1655 |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.61 (L) (INPUT = 0.80)  
JSI METAL= 0.29 (C) (INPUT = 1.00)

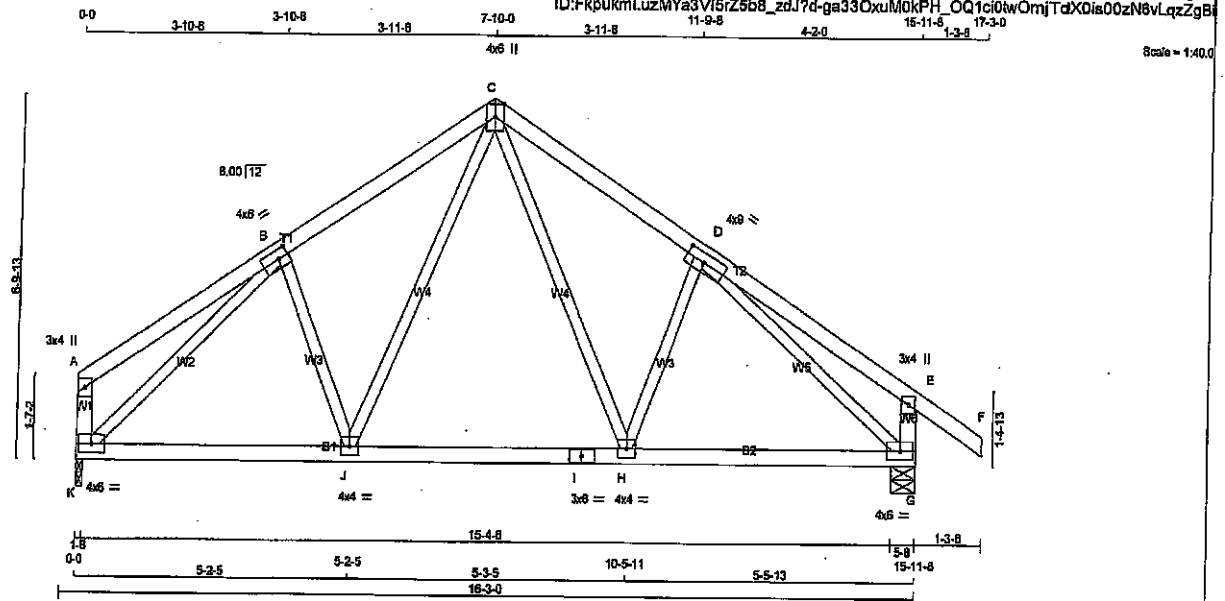


DRWG NO. TAM 17905380  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T25A       | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1/400

| <b>LUMBER</b>            |     |             |               |  |
|--------------------------|-----|-------------|---------------|--|
| <b>N. L. G. A. RULES</b> |     |             |               |  |
| <b>CHORDS</b>            |     | <b>SIZE</b> | <b>LUMBER</b> |  |
| A - C                    | 2x4 | DRY         | No.2          |  |
| C - F                    | 2x4 | DRY         | No.2          |  |
| K - A                    | 2x4 | DRY         | No.2          |  |
| G - E                    | 2x4 | DRY         | No.2          |  |
| K - I                    | 2x4 | DRY         | No.2          |  |
| I - G                    | 2x4 | DRY         | No.2          |  |

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

| PLATES (table is in inches) | JT TYPE | PLATES | W   | LEN | Y    | X    |
|-----------------------------|---------|--------|-----|-----|------|------|
| A                           | TMV-p   | MT20   | 3.0 | 4.0 |      |      |
| B                           | TMVW-t  | MT20   | 4.0 | 8.0 | 2.00 | 2.25 |
| C                           | TTVW-p  | MT20   | 4.0 | 8.0 | Edge |      |
| D                           | TMVW-t  | MT20   | 4.0 | 9.0 | 2.00 | 4.25 |
| E                           | TMV-p   | MT20   | 3.0 | 4.0 |      |      |
| G                           | BMVW1-t | MT20   | 4.0 | 4.0 |      |      |
| H                           | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| I                           | BS-t    | MT20   | 3.0 | 6.0 |      |      |
| J                           | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| K                           | BMVW1-t | MT20   | 4.0 | 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

| FACTORED       | MAXIMUM FACTORED | INPUT  | REQD  |
|----------------|------------------|--------|-------|
| GROSS REACTION | GROSS REACTION   | BRG    | BRG   |
| JT VERT        | DOWN             | UPLIFT | IN-SX |
| K 982          | 0                | 0      | 1-8   |
| G 1102         | 0                | 0      | 5-8   |

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |       |            |       |         |       |
|-----------|----------|-------------------------------|-------|------------|-------|---------|-------|
| JT        | COMBINED | SNOW                          | LIVE  | PERM. LIVE | WIND  | DEAD    | SC    |
| K         | 677      | 463 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 214 / 0 | 0 / 0 |
| G         | 773      | 543 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 230 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.23 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) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
| FR-TO  |                           | FROM TO                   |               |                    | FR-TO |                           |               |
| A-B    | 0 / 28                    | -102.1 -102.1             | 0.25 (1)      | 10.00              | C-H   | 0 / 378                   | 0.08 (1)      |
| B-C    | -874 / 0                  | -102.1 -102.1             | 0.20 (1)      | 6.25               | H-D   | -254 / 0                  | 0.07 (1)      |
| C-D    | -903 / 0                  | -102.1 -102.1             | 0.21 (1)      | 6.23               | J-C   | 0 / 316                   | 0.07 (1)      |
| D-E    | 0 / 26                    | -102.1 -102.1             | 0.27 (1)      | 10.00              | B-J   | -201 / 0                  | 0.06 (1)      |
| E-F    | 0 / 39                    | -102.1 -102.1             | 0.14 (1)      | 10.00              | K-B   | -1085 / 0                 | 0.50 (1)      |
| K-A    | -148 / 0                  | 0.0 0.0                   | 0.02 (1)      | 7.81               | D-G   | -1113 / 0                 | 0.56 (1)      |
| G-E    | -303 / 0                  | 0.0 0.0                   | 0.03 (1)      | 7.81               |       |                           |               |
| K-J    | 0 / 774                   | -18.5 -18.5               | 0.18 (1)      | 10.00              |       |                           |               |
| J-I    | 0 / 588                   | -18.5 -18.5               | 0.17 (4)      | 10.00              |       |                           |               |
| I-H    | 0 / 588                   | -18.5 -18.5               | 0.17 (4)      | 10.00              |       |                           |               |
| H-G    | 0 / 815                   | -18.5 -18.5               | 0.20 (1)      | 10.00              |       |                           |               |

TOTAL WEIGHT = 2 X 70 = 140 lb

#### DESIGN CRITERIA

| SPECIFIED LOADS:      |
|-----------------------|
| TOP CH. LL = 29.0 PSF |
| DL = 6.0 PSF          |
| BOT CH. LL = 0.0 PSF  |
| DL = 7.4 PSF          |
| TOTAL LOAD = 42.4 PSF |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2010, OBC 2012  
- CSA 086-08, CSA 086-14  
- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.53")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.53")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.27/1.00 (D-E:1), BC=0.20/1.00 (G-H:1),  
WB=0.56/1.00 (D-G:1), SS=0.17/1.00 (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

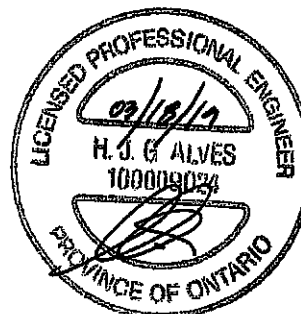
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

| NAIL VALUES | PLATE GRIP(DRY) | SHEAR   | SECTION |
|-------------|-----------------|---------|---------|
| (PSI)       | (PLI)           | (PLI)   | (PLI)   |
| MAX MIN     | MAX MIN         | MAX MIN | MAX MIN |
| MT20        | 618             | 354     | 1867    |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.61 (K) (INPUT = 0.90)  
JSI METAL= 0.28 (B) (INPUT = 1.00)

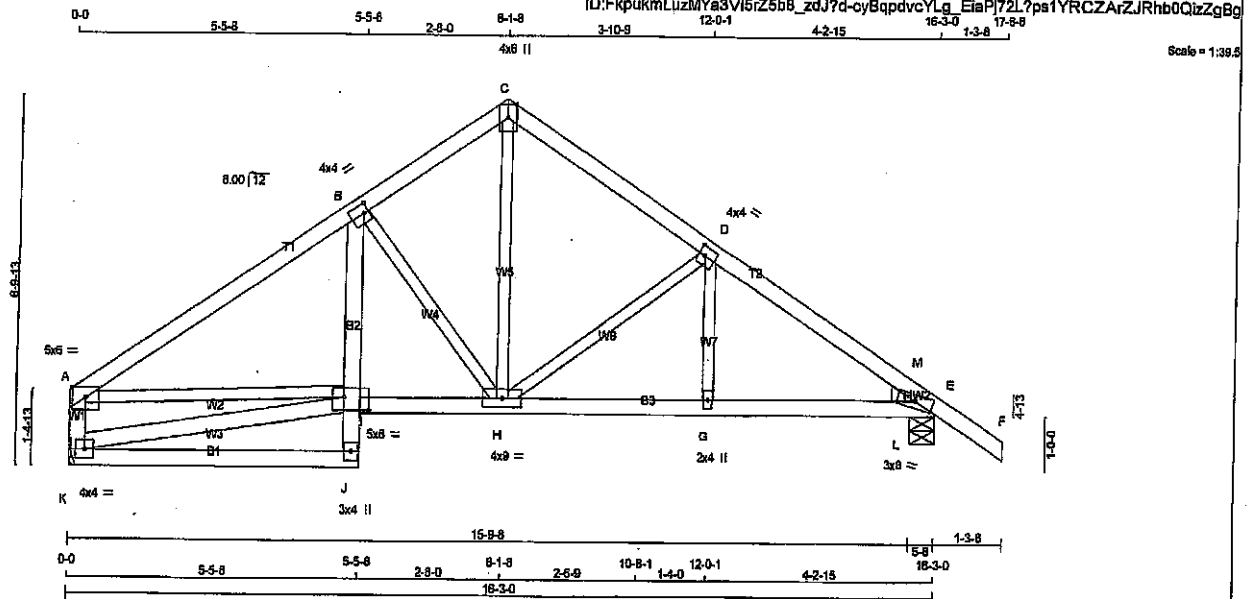


DWG NO. TAM 77905420  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T25S       | 4        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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ID: FkpukmLuzMYa3V15/Z5b8\_zdJ?d-cyBqpdvcYlg\_ElaPj72L?ps1YRCZArZJRh0QbzZgBg



Scale = 1:39.5

TOTAL WEIGHT = 4 X 73 = 291 lb

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

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT TYPE | PLATES   | W    | LEN | Y   | X         |
|---------|----------|------|-----|-----|-----------|
| A       | TMAVW-p  | MT20 | 5.0 | 8.0 | Edge      |
| B       | TMAVW-l  | MT20 | 4.0 | 4.0 | 2.00 1.00 |
| C       | TTWV-p   | MT20 | 4.0 | 8.0 | Edge      |
| D       | TMAVW-t  | MT20 | 4.0 | 4.0 | 2.00 1.50 |
| E       | TMBH1-m  | MT20 | 3.0 | 8.0 |           |
| G       | BMVW-w   | MT20 | 2.0 | 4.0 |           |
| H       | BMVWWV-t | MT20 | 4.0 | 9.0 |           |
| I       | BMVWWV-l | MT20 | 5.0 | 8.0 | 3.00 5.50 |
| J       | BMVW-p   | MT20 | 3.0 | 4.0 |           |
| K       | BMVWWV-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 | HEEL   |
|----------|-------------------------|---------------------------------|-----------|----------|--------|
| JT       | VERT                    | HORZ                            | DOWN      | HORZ     | UPLIFT |
| K        | 980                     | 0                               | 980       | 0        | 0      |
| E        | 1120                    | 0                               | 1120      | 0        | 0      |

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

#### UNFACTORED REACTIONS

| JT | 1ST LOASE | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|---------|-------|-----------|-------|---------|-------|
| K  | 680       | 472 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 218 / 0 | 0 / 0 |
| E  | 786       | 552 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 234 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.39 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS1 (LC) | MAX. UNBRAC LENGTH | MEMB. | WEBS     | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |
|-------|-----------|---------------------------|---------------------------|---------------|--------------------|-------|----------|---------------------------|---------------|
| FR-TO |           |                           |                           |               |                    | FR-TO |          |                           |               |
| A-B   | -1213 / 0 | -102.1                    | -102.1                    | 0.36 (1)      | 5.39               | K-I   | -22 / 0  | 0.01 (1)                  |               |
| B-C   | -924 / 0  | -102.1                    | -102.1                    | 0.27 (1)      | 8.09               | A-I   | 0 / 1031 | 0.23 (1)                  |               |
| C-D   | -887 / 0  | -102.1                    | -102.1                    | 0.18 (1)      | 6.25               | H-C   | 0 / 759  | 0.17 (1)                  |               |
| D-E   | -1325 / 0 | -102.1                    | -102.1                    | 0.19 (1)      | 5.43               | B-H   | -505 / 0 | 0.17 (1)                  |               |
| M-E   | -1411 / 0 | -102.1                    | -102.1                    | 0.04 (1)      | 5.46               | G-D   | 0 / 93   | 0.03 (4)                  |               |
| E-F   | 0 / 36    | -102.1                    | -102.1                    | 0.14 (1)      | 10.00              | H-D   | -491 / 0 | 0.19 (1)                  |               |
| K-A   | -927 / 0  | 0.0                       | 0.0                       | 0.10 (1)      | 7.81               | L-M   | -69 / 29 | 0.00 (1)                  |               |
| K-J   | 0 / 22    | -18.5                     | -18.5                     | 0.15 (4)      | 10.00              |       |          |                           |               |
| J-I   | 0 / 55    | 0.0                       | 0.0                       | 0.04 (1)      | 10.00              |       |          |                           |               |
| I-B   | 0 / 70    | 0.0                       | 0.0                       | 0.04 (1)      | 10.00              |       |          |                           |               |
| I-H   | 0 / 1037  | -18.5                     | -18.5                     | 0.19 (1)      | 10.00              |       |          |                           |               |
| H-G   | 0 / 1120  | -18.5                     | -18.5                     | 0.21 (1)      | 10.00              |       |          |                           |               |
| G-L   | 0 / 1120  | -18.5                     | -18.5                     | 0.26 (1)      | 10.00              |       |          |                           |               |
| L-E   | 0 / 1120  | -18.5                     | -18.5                     | 0.25 (1)      | 10.00              |       |          |                           |               |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

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

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.54")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.03")  
ALLOWABLE DEFL. (TL) = L/360 (0.54")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.07")

CSI: TC=0.36/1.00 (A-B:1), BC=0.28/1.00 (G-L:1),  
WB=0.23/1.00 (A-I:1), SS=0.21/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

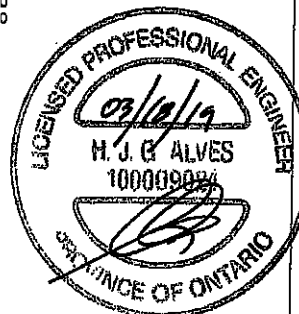
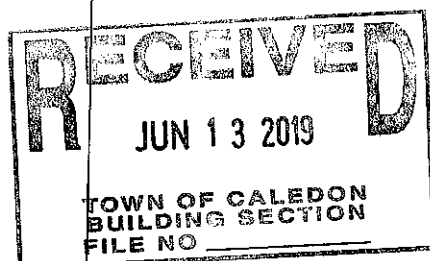
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1887 788 1987 1886

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.69 (1) (INPUT = 0.90)  
JSI METAL= 0.25 (1) (INPUT = 1.00)

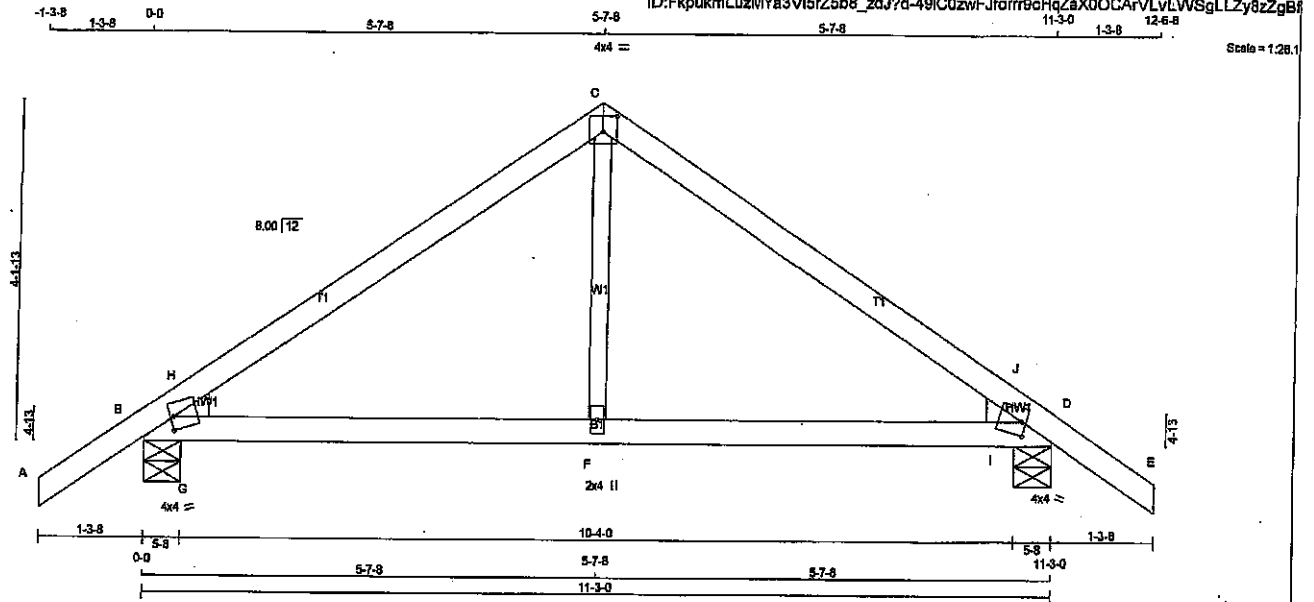


DWG NO. TAM 17905421  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T51        | 2        | 1   | TRUSS DESC. |                  |          |

Tamrack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MTek Industries, Inc. Mon Mar 18 15:46:28 2019 Page 1  
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TOTAL WEIGHT = 2 X 36 = 72 lb  
MIF

| LUMBER                | N. L. G. A. RULES | CHORDS | SIZE | DRY | LUMBER | DESCR. |
|-----------------------|-------------------|--------|------|-----|--------|--------|
| A - C                 | 2x4               | DRY    | No.2 | SPF |        |        |
| C - E                 | 2x4               | DRY    | No.2 | SPF |        |        |
| B - 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  | TMBH1-m | MT20   | 4.0 | 4.0 | 2.00 | 0.50 |
| C  | TTW-p   | MT20   | 4.0 | 4.0 | 2.25 | 2.00 |
| D  | TMBH1-m | MT20   | 4.0 | 4.0 | 2.00 | 0.50 |
| F  | BMW-w   | MT20   | 2.0 | 4.0 |      |      |

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

| BEARINGS |      | FACTORED |                | MAXIMUM FACTORED |      | INPUT  |     | REQD  |       |
|----------|------|----------|----------------|------------------|------|--------|-----|-------|-------|
| JT       | VERT | HORZ     | GROSS REACTION | DOWN             | HORZ | UPLIFT | BRG | HEEL  | WEDGE |
| B        | 819  | 0        | 819            | 0                | 0    | 5-8    | 5-8 | 2x4 L |       |
| D        | 819  | 0        | 819            | 0                | 0    | 5-8    | 5-8 | 2x4 R |       |

#### UNFACTORED REACTIONS

| JT | 1ST CASE | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|----------|---------|-------|-----------|-------|---------|-------|
| B  | 574      | 408 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 167 / 0 | 0 / 0 |
| D  | 574      | 408 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 167 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED        |               | WEBS  |             | FACTORED      |          |
|--------|-------------|-----------------|---------------|-------|-------------|---------------|----------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PL) | MAX. CSI (LC) | MEMB. | FORCE (LBS) | MAX. CSI (LC) |          |
| FR-TO  |             | FROM TO         |               | FR-TO |             |               |          |
| A-B    | 0 / 38      | -102.1 -102.1   | 0.14 (1)      | 10.00 | F-C         | 0 / 288       | 0.08 (1) |
| B-H    | -582 / 0    | -102.1 -102.1   | 0.13 (1)      | 8.25  | G-H         | -432 / 0      | 0.00 (1) |
| H-C    | -673 / 0    | -102.1 -102.1   | 0.37 (1)      | 8.25  | I-J         | -432 / 0      | 0.00 (1) |
| C-J    | -673 / 0    | -102.1 -102.1   | 0.37 (1)      | 8.25  |             |               |          |
| J-D    | -582 / 0    | -102.1 -102.1   | 0.13 (1)      | 8.25  |             |               |          |
| D-E    | 0 / 38      | -102.1 -102.1   | 0.14 (1)      | 10.00 |             |               |          |
| B-G    | 0 / 549     | -18.5 -18.5     | 0.41 (1)      | 10.00 |             |               |          |
| C-F    | 0 / 549     | -18.5 -18.5     | 0.41 (1)      | 10.00 |             |               |          |
| F-I    | 0 / 549     | -18.5 -18.5     | 0.41 (1)      | 10.00 |             |               |          |
| I-D    | 0 / 549     | -18.5 -18.5     | 0.41 (1)      | 10.00 |             |               |          |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2018, NBC 2012  
- CSA 088-09, CSA 088-14  
- TPC 2011, TPC 2014

(55 % OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.38")  
CALCULATED VERT. DEFL.(LL) = L/899 (0.05")  
ALLOWABLE DEFL.(TL) = L/360 (0.38")  
CALCULATED VERT. DEFL.(TL) = L/899 (0.05")

CSI: TC=0.37/1.00 (C-J:1), BC=0.41/1.00 (D-I:1), WB=0.06/1.00 (C-F:1), SS=0.31/1.00 (D-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

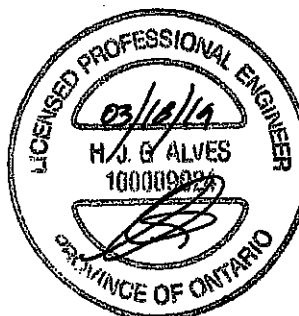
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.64 (B) (INPUT = 0.60)  
JSI METAL= 0.33 (B) (INPUT = 1.00)

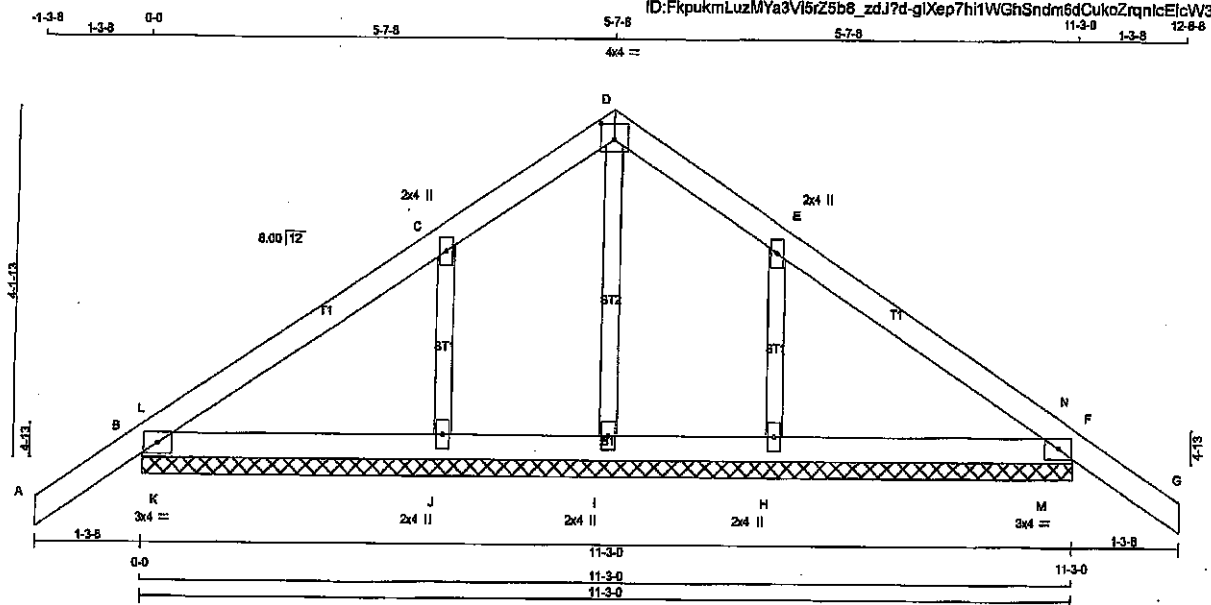


JWG NO. TAM 7905422  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | G51        | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Trusses, Burlington

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Scale = 1/2\"/>

TOTAL WEIGHT = 2 X 30 = 77 lb

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

GABLE STUDS SPACED AT 24-0-0 OC.

#### PLATES (table in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMB1-I | MT20   | 3.0 | 4.0 |      |      |
| C  | TMB1-w | MT20   | 2.0 | 4.0 |      |      |
| D  | TTW-p  | MT20   | 4.0 | 4.0 | 2.25 | 2.00 |
| E  | TMB1-w | MT20   | 2.0 | 4.0 |      |      |
| F  | TMB1-I | MT20   | 3.0 | 4.0 |      |      |
| H  | BMW1-w | MT20   | 2.0 | 4.0 |      |      |

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

##### BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

##### BRACING

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

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS |        | FACTORED |          | WEBS  |       | FACTORED |          |
|-------|--------|--------|----------|----------|-------|-------|----------|----------|
|       | MAX.   | FORCE  | VERT.    | LOAD     | MAX.  | FORCE | MAX.     | FORCE    |
| FR-TO | FROM   | TO     | LC1      | MAX      | LC1   | MAX   | LC1      | MAX      |
| A-B   | 0/36   | -102.1 | -102.1   | 0.14 (1) | 10.00 | I-D   | -42/4    | 0.01 (1) |
| B-L   | -39/0  | -102.1 | -102.1   | 0.03 (1) | 6.25  | J-C   | -335/0   | 0.08 (1) |
| L-C   | -70/0  | -102.1 | -102.1   | 0.13 (1) | 6.25  | H-E   | -335/0   | 0.08 (1) |
| C-D   | -65/0  | -102.1 | -102.1   | 0.13 (1) | 6.25  | K-L   | -231/5   | 0.00 (1) |
| D-E   | -65/0  | -102.1 | -102.1   | 0.13 (1) | 6.25  | M-N   | -231/5   | 0.00 (1) |
| E-N   | -70/0  | -102.1 | -102.1   | 0.03 (1) | 6.25  |       |          |          |
| N-F   | -39/0  | -102.1 | -102.1   | 0.14 (1) | 10.00 |       |          |          |
| F-G   | 0/36   | -102.1 | -102.1   | 0.14 (1) | 10.00 |       |          |          |
| B-K   | 0/69   | -18.5  | -18.5    | 0.10 (1) | 10.00 |       |          |          |
| K-J   | 0/69   | -18.5  | -18.5    | 0.10 (1) | 10.00 |       |          |          |
| J-I   | 0/58   | -18.5  | -18.5    | 0.07 (1) | 10.00 |       |          |          |
| I-H   | 0/58   | -18.5  | -18.5    | 0.07 (1) | 10.00 |       |          |          |
| H-M   | 0/69   | -18.5  | -18.5    | 0.10 (1) | 10.00 |       |          |          |
| M-F   | 0/69   | -18.5  | -18.5    | 0.10 (1) | 10.00 |       |          |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |      |      |     |
|------------|----|------|------|-----|
| TOP CH.    | LL | =    | 28.0 | PSF |
|            | DL | =    | 8.0  | PSF |
| BOT CH.    | LL | =    | 0.0  | PSF |
|            | DL | =    | 7.4  | PSF |
| TOTAL LOAD | =  | 42.4 | PSF  |     |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2010, CBC 2012  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.14/1.00 (F-G:1), BC=0.10/1.00 (B-K:1), WB=0.06/1.00 (C-J:1), SSI=0.18/1.00 (F-M: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.

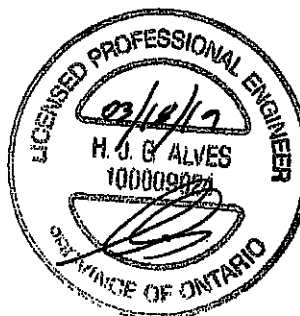
##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION            |
|-------|-----------|-------|--------------------|
| (PSI) | (PLI)     | (PLI) | (PLI)              |
| MT20  | 618       | 354   | 1867 738 1967 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.30 (F) (INPUT = 0.90)  
JSI METAL= 0.17 (C) (INPUT = 1.00)



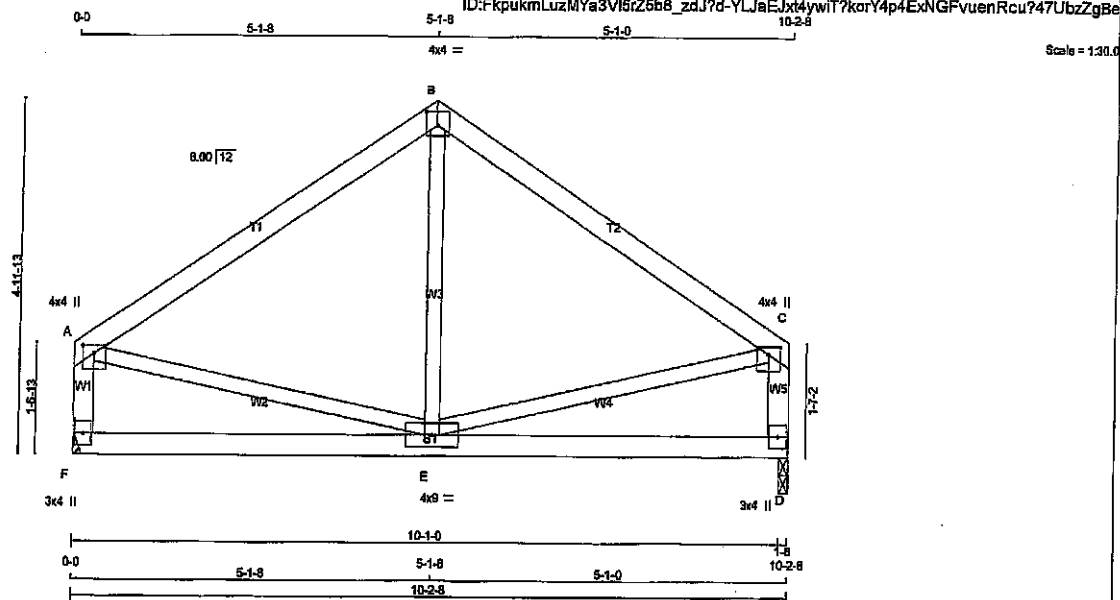
DRWG NO. TAM 71905423  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T52        | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 40 = 80 LB

#### LUMBER

N. L. G. A. RULES

| CHORDS | SIZE    | LUMBER |
|--------|---------|--------|
| A - B  | 2x4 DRY | No.2   |
| B - C  | 2x4 DRY | No.2   |
| F - A  | 2x4 DRY | No.2   |
| D - C  | 2x4 DRY | No.2   |
| F - D  | 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    |
|----|---------|--------|-----|-----|------|------|
| A  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| B  | TTW-p   | MT20   | 4.0 | 4.0 | 2.25 | 2.00 |
| C  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| D  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| E  | BMVWW-t | MT20   | 4.0 | 9.0 |      |      |
| F  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | HORZ                            | DOWN      | UPLIFT   |
| F        | 616                     | 0                               | 616       | 0        |
| D        | 616                     | 0                               | 616       | 0        |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN. COMPONENT REACTIONS            |
|----|----------|-----------------------------------------|
|    | COMBINED | SNOW LIVE PERM. LIVE WIND DEAD SOIL     |
| F  | 433      | 206 / 0 0 / 0 0 / 0 0 / 0 137 / 0 0 / 0 |
| D  | 433      | 206 / 0 0 / 0 0 / 0 0 / 0 137 / 0 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | FACTORED LC1 MAX (LC) | MAX. UNBRACED LENGTH | WEBS  | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH |
|--------|---------------------------|---------------------------|-----------------------|----------------------|-------|---------------------------|----------------------|
| FR-TO  |                           |                           |                       |                      | FR-TO |                           |                      |
| A-B    | -419 / 0                  | -102.1                    | -102.1 0.35 (1)       | 6.25                 | E-B   | -56 / 73                  | 0.03 (4)             |
| B-C    | -419 / 0                  | -102.1                    | -102.1 0.34 (1)       | 6.25                 | A-E   | 0 / 359                   | 0.08 (1)             |
| F-A    | -579 / 0                  | 0.0                       | 0.0 0.08 (1)          | 7.81                 | E-C   | 0 / 359                   | 0.08 (1)             |
| D-C    | -579 / 0                  | 0.0                       | 0.0 0.08 (1)          | 7.81                 |       |                           |                      |
| F-E    | 0 / 0                     | -18.5                     | -18.5 0.14 (4)        | 10.00                |       |                           |                      |
| E-D    | 0 / 0                     | -18.5                     | -18.5 0.14 (4)        | 10.00                |       |                           |                      |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |            |
|------------|----|------------|
| TOP CH.    | LL | = 28.0 PSF |
|            | DL | = 8.0 PSF  |
| BOT CH.    | LL | = 0.0 PSF  |
|            | DL | = 7.4 PSF  |
| TOTAL LOAD |    | = 42.4 PSF |

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(85 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.34")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.34")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.35/1.00 (A-B:1), BC=0.14/1.00 (D-E:4), WB=0.05/1.00 (C-E:1), SS=0.17/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

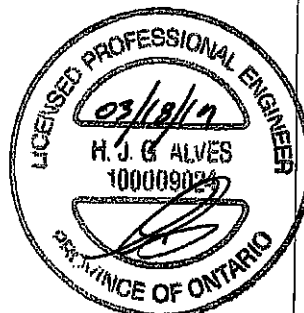
#### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-----------------|-------------|---------------|
| MT20            | 618         | 354           |
|                 | 1667        | 789           |
|                 | 1987        | 1896          |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 6.0 Deg.

JSI GRIP= 0.45 (A) (INPUT = 0.90)  
JSI METAL= 0.13 (A) (INPUT = 1.00)



DRWG NO. TAM 71905424  
STRUCTURAL  
COMPONENT ONLY

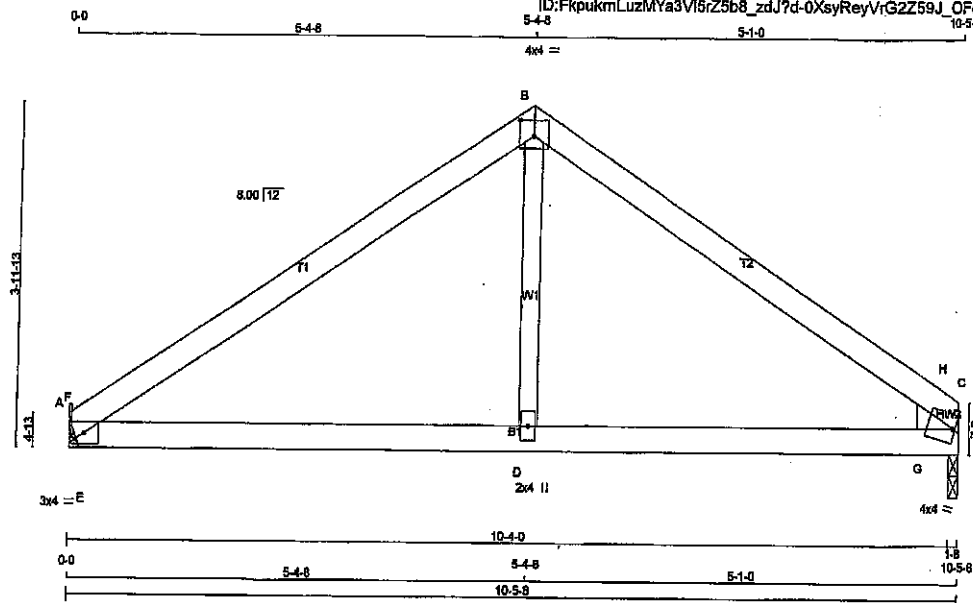
|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T53        | 1        | 1   | TRUSS DESC. |                  |          |

Tamarrack Roof Truss, Burlington

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Scale = 1:24.7



TOTAL WEIGHT = 30 lb

#### LUMBER

N L G A RULES

CHORDS SIZE

A - B 2x4 DRY

B - C 2x4 DRY

A - C 2x4 DRY

ALL WEBS 2x3 DRY

DRY: SEASONED LUMBER.

LUMBER

No.2

No.2

No.2

No.2

No.2

DESCR.

SPF

SPF

SPF

SPF

SPF

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

#### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REORD BRG | HEEL   |
|----|-------------------------|---------------------------------|-----------|-----------|--------|
|    | VERT                    | HORZ                            | DOWN      | HORZ      | UPLIFT |
| A  | 631                     | 0                               | 631       | 0         | 0      |
| C  | 631                     | 0                               | 631       | 0         | 0      |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|-------------------------------|-------|-------|------------|-------|---------|-------|
| A  | 444      | 304 / 0                       | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 140 / 0 | 0 / 0 |
| C  | 444      | 304 / 0                       | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 140 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. VERT. LOAD (LBS) | MAX. HORZ. LOAD (LBS) | UNBRACED LENGTH (FT) | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. HORZ. LOAD (LBS) |
|--------|-------|---------------------------|---------------------------|-----------------------|-----------------------|----------------------|-------|-------|---------------------------|-----------------------|
| FR-TO  |       |                           |                           |                       |                       |                      | FR-TO |       |                           |                       |
| A-F    |       | -277 / 0                  | -102.1                    | -102.1                | 0.17 (1)              | 6.25                 | D-B   |       | 8 / 217                   | 0.05 (1)              |
| F-B    |       | -805 / 0                  | -102.1                    | -102.1                | 0.36 (1)              | 6.25                 | E-F   |       | -741 / 0                  | 0.00 (1)              |
| B-H    |       | -607 / 0                  | -102.1                    | -102.1                | 0.28 (1)              | 6.25                 | G-H   |       | -362 / 17                 | 0.00 (1)              |
| H-C    |       | -495 / 0                  | -102.1                    | -102.1                | 0.17 (1)              | 6.25                 |       |       |                           |                       |
| A-E    |       | 0 / 489                   | -18.5                     | -18.5                 | 0.35 (1)              | 10.00                |       |       |                           |                       |
| E-D    |       | 0 / 489                   | -18.5                     | -18.5                 | 0.35 (1)              | 10.00                |       |       |                           |                       |
| D-G    |       | 0 / 489                   | -18.5                     | -18.5                 | 0.28 (1)              | 10.00                |       |       |                           |                       |
| G-C    |       | 0 / 489                   | -18.5                     | -18.5                 | 0.26 (1)              | 10.00                |       |       |                           |                       |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 29.0 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 42.4 | PSF |

SPACING = 24.0 IN. O.C.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012
- CSA 088-09, CSA 088-14
- TPIG 2011, TPIG 2014

(65 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.35")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.04")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.35")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.07")

CSI: TC=0.36/1.00 (B-F:1), BC=0.35/1.00 (A-E:1), WB=0.05/1.00 (B-D:1), SS=0.57/1.00 (A-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.

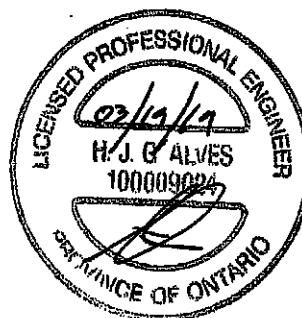
#### NAIL VALUES

| PLATE | CRIPDRY | SHEAR | SECTION |
|-------|---------|-------|---------|
| (PSI) | (PLI)   | (PLI) | (PLI)   |
| MT20  | 618     | 354   | 1667    |
|       | 789     | 1667  | 1655    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (C) (INPUT = 0.80)  
JSI METAL= 0.27 (C) (INPUT = 1.00)



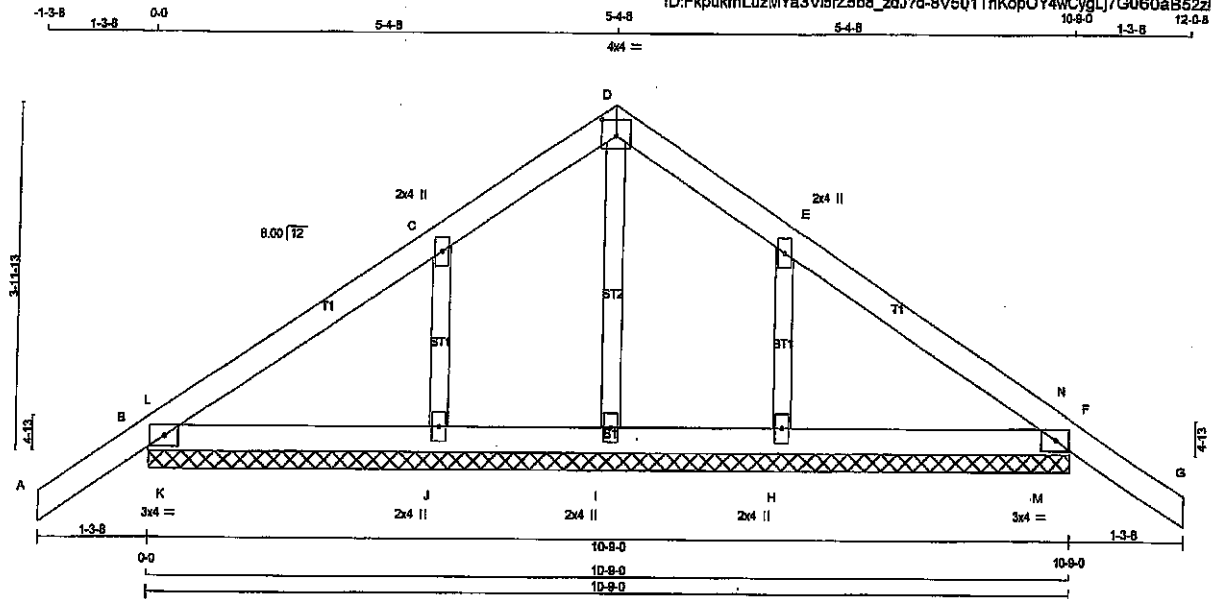
DRWG NO. TAM 17705425  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | G53        | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1/24.5

TOTAL WEIGHT = 37 lb

#### LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - D 2x4 DRY

D - G 2x4 DRY

B - F 2x4 DRY

ALL WEBS 2x3 DRY

ALL GABLE WEBS 2x3 DRY

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 24-0 OC.

#### PLATES (table in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMB1-J | MT20   | 3.0 | 4.0 |      |      |
| C  | TMB1-w | MT20   | 2.0 | 4.0 |      |      |
| D  | TTW-p  | MT20   | 4.0 | 4.0 | 2.25 | 2.00 |
| E  | TMB1-w | MT20   | 2.0 | 4.0 |      |      |
| F  | TMB1-J | MT20   | 3.0 | 4.0 |      |      |
| H  | TMB1-w | MT20   | 2.0 | 4.0 |      |      |

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

#### BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

#### BRACING

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

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                        | WEBS  |                           |                           |                        |
|--------|---------------------------|---------------------------|------------------------|-------|---------------------------|---------------------------|------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CS1 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CS1 (LC) |
| FR-TO  |                           |                           |                        | FR-TO |                           |                           |                        |
| A-B    | 0/38                      | -102.1                    | -102.1 0.14 (1)        | I-D   | -59/0                     |                           | 0.01 (1)               |
| B-L    | -39/0                     | -102.1                    | -102.1 0.03 (1)        | J-C   | -317/0                    |                           | 0.05 (1)               |
| L-C    | -64/0                     | -102.1                    | -102.1 0.12 (1)        | H-E   | -317/0                    |                           | 0.05 (1)               |
| C-D    | -66/0                     | -102.1                    | -102.1 0.12 (1)        | K-L   | -188/5                    |                           | 0.00 (1)               |
| D-E    | -66/0                     | -102.1                    | -102.1 0.12 (1)        | M-N   | -188/5                    |                           | 0.00 (1)               |
| E-N    | -64/0                     | -102.1                    | -102.1 0.12 (1)        |       |                           |                           |                        |
| N-F    | -39/0                     | -102.1                    | -102.1 0.03 (1)        |       |                           |                           |                        |
| F-G    | 0/38                      | -102.1                    | -102.1 0.14 (1)        |       |                           |                           |                        |
| B-K    | 0/64                      | -18.5                     | -18.5 0.08 (1)         |       |                           |                           |                        |
| K-J    | 0/64                      | -18.5                     | -18.5 0.08 (1)         |       |                           |                           |                        |
| J-I    | 0/53                      | -18.5                     | -18.5 0.06 (1)         |       |                           |                           |                        |
| I-H    | 0/53                      | -18.5                     | -18.5 0.06 (1)         |       |                           |                           |                        |
| H-M    | 0/64                      | -18.5                     | -18.5 0.08 (1)         |       |                           |                           |                        |
| M-F    | 0/64                      | -18.5                     | -18.5 0.08 (1)         |       |                           |                           |                        |

#### DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF

DL = 8.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL

OR SMALL BUILDING REQUIREMENTS OF

PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012

- CSA 086-09, CSA 086-14

- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F.

RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED

ROOF LIVE LOAD

CS1: TC=0.14/1.00 (A-B:1), BC=0.08/1.00 (H-M:1),

WB=0.05/1.00 (E-H:1), SI=0.16/1.00 (F-M:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT

RESPONSIBLE FOR QUALITY CONTROL IN

THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

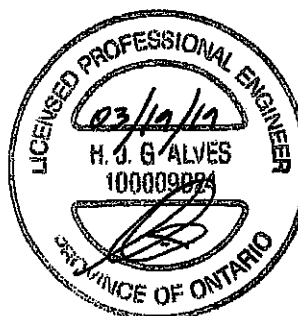
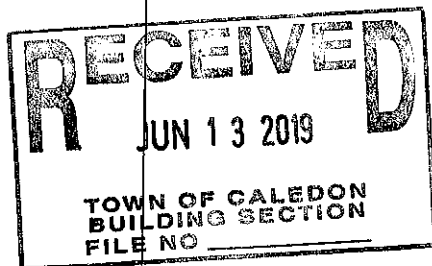
MT20 618 354 1887 788 1987 1655

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.29 (B) (INPUT = 0.90)

JSI METAL= 0.16 (E) (INPUT = 1.00)



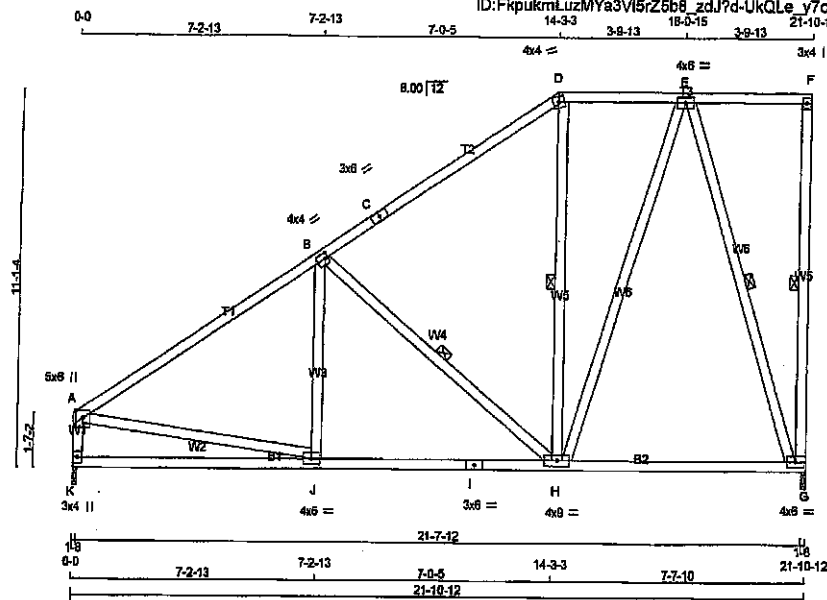
DRWG NO. TAM 71905426  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T54        | 3        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1:82.5

TOTAL WEIGHT = 3 X 129 = 387 lb

#### LUMBER

N. L. G. A. RULES

| CHORDS | SIZE | LUMBER   |
|--------|------|----------|
| A - C  | 2x4  | DRY No.2 |
| C - D  | 2x4  | DRY No.2 |
| D - F  | 2x4  | DRY No.2 |
| G - F  | 2x4  | DRY No.2 |
| K - A  | 2x4  | DRY No.2 |
| K - I  | 2x4  | DRY No.2 |
| I - G  | 2x4  | DRY No.2 |

ALL WEBS 2x4 DRY, SEASONED LUMBER.

DESCR.

|     |
|-----|
| SPF |
| SPF |
| SPF |
| SPF |
| SPF |
| SPF |
| SPF |

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

BUILDING DESIGNER

#### BEARINGS

| JT | FACTORED GROSS REACTION | FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|-------------------------|-----------|-----------|
|    | VERT                    | HORZ                    | DOWN      | UP/LIFT   |
| G  | 1320                    | 0                       | 1320      | 0         |
| K  | 1320                    | 0                       | 1320      | 0         |

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|-------------------------------|------------|-------|---------|-------|
|    | COMBINED | SNOW                          | LIVE       |       |         |       |
| G  | 929      | 636 / 0                       | 0 / 0      | 0 / 0 | 293 / 0 | 0 / 0 |
| K  | 929      | 636 / 0                       | 0 / 0      | 0 / 0 | 293 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.37 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED    | VERT. LOAD | LC1  | MAX | CS1   | LC2 | UNBRAC    | FR-TO | WEBS | MAX. FACTORED | FORCE | MAX | CS1 | LC3 |
|--------|---------------|-------------|------------|------|-----|-------|-----|-----------|-------|------|---------------|-------|-----|-----|-----|
| MEMB.  | FORCE (LBS)   | VERT. (PLF) |            |      |     |       |     |           |       |      | FORCE (LBS)   |       |     |     |     |
| A-B    | -1355 / 0     | -102.1      | -102.1     | 0.77 | (1) | 4.37  | J-B | -63 / 99  | 0.03  | (1)  |               |       |     |     |     |
| B-C    | -784 / 0      | -102.1      | -102.1     | 0.71 | (1) | 5.52  | B-H | -733 / 0  | 0.32  | (1)  |               |       |     |     |     |
| C-D    | -784 / 0      | -102.1      | -102.1     | 0.71 | (1) | 5.52  | H-D | -9 / 62   | 0.02  | (4)  |               |       |     |     |     |
| D-E    | -809 / 0      | -102.1      | -102.1     | 0.19 | (1) | 6.25  | A-J | 0 / 1186  | 0.19  | (1)  |               |       |     |     |     |
| E-F    | 0 / 0         | -102.1      | -102.1     | 0.25 | (1) | 10.00 | H-E | 0 / 670   | 0.11  | (1)  |               |       |     |     |     |
| G-F    | -147 / 0      | 0.0         | 0.0        | 0.09 | (1) | 8.25  | E-G | -1185 / 0 | 0.86  | (1)  |               |       |     |     |     |
| K-A    | -1265 / 0     | 0.0         | 0.0        | 0.13 | (1) | 7.16  |     |           |       |      |               |       |     |     |     |
| K-J    | 0 / 0         | -18.5       | -18.5      | 0.22 | (4) | 10.00 |     |           |       |      |               |       |     |     |     |
| J-I    | 0 / 1168      | -18.5       | -18.5      | 0.32 | (4) | 10.00 |     |           |       |      |               |       |     |     |     |
| I-H    | 0 / 1168      | -18.5       | -18.5      | 0.32 | (4) | 10.00 |     |           |       |      |               |       |     |     |     |
| H-G    | 0 / 394       | -18.5       | -18.5      | 0.28 | (4) | 10.00 |     |           |       |      |               |       |     |     |     |

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| A  | TMVW+p  | MT20   | 5.0 | 6.0 | Edge |      |
| B  | TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.00 |
| C  | TS-t    | MT20   | 3.0 | 6.0 |      |      |
| D  | TTW-m   | MT20   | 4.0 | 4.0 |      |      |
| E  | TMVW-t  | MT20   | 4.0 | 6.0 |      |      |
| F  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| G  | BMVW-t  | MT20   | 4.0 | 6.0 |      |      |
| H  | BMVW-t  | MT20   | 4.0 | 6.0 |      |      |
| I  | BS-t    | MT20   | 3.0 | 6.0 |      |      |
| J  | BMVW-t  | MT20   | 4.0 | 6.0 |      |      |
| K  | BMV-t+p | MT20   | 3.0 | 4.0 |      |      |

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

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |      |      |     |
|------------|----|------|------|-----|
| TOP CH.    | LL | =    | 29.0 | PSF |
|            | DL | =    | 6.0  | PSF |
| BOT CH.    | LL | =    | 0.0  | PSF |
|            | DL | =    | 7.4  | PSF |
| TOTAL LOAD | =  | 42.4 | PSF  |     |

SPACING = 24.0 IN./C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, CBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
ALLOWABLE DEFL.(TL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CS1: TC=0.77/1.00 (A-B:1), EC=0.32/1.00 (H-J:4), WB=0.85/1.00 (E-G:1), SS1=0.30/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

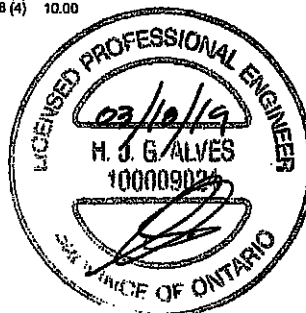
#### NAIL VALUES

| PLATE   | GRIP(DRY) | SHEAR    | SECTION   |
|---------|-----------|----------|-----------|
| (PSI)   | (PLI)     | (PLI)    |           |
| MAX MIN | MAX MIN   | MAX MIN  |           |
| MT20    | 618 354   | 1887 768 | 1987 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

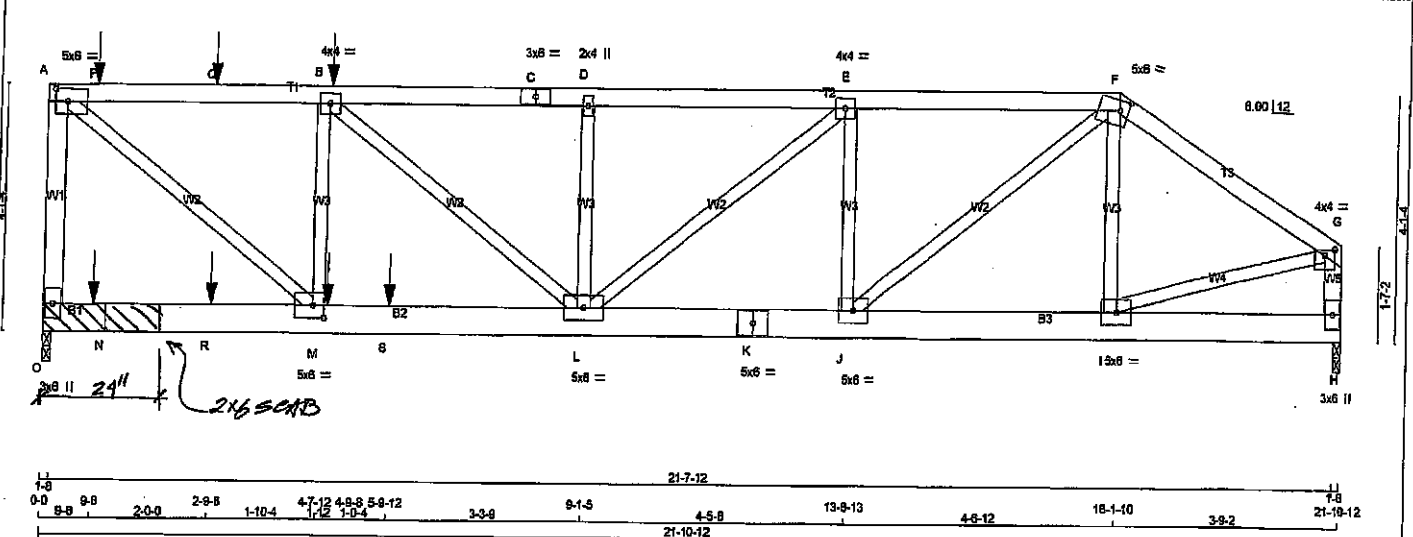
JSI GRIP= 0.77 (J) (INPUT = 0.50)  
JSI METAL= 0.57 (A) (INPUT = 1.00)



DRWG NO. TAM 71905427  
STRUCTURAL  
COMPONENT ONLY

| JOB NAME    | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
|-------------|------------|----------|-----|------------------|----------|
| 401794      | T55        | 1        | 2   | GREEN PARK HOMES |          |
| TRUSS DESC. |            |          |     |                  |          |

Version 8.230 S Nov 17 2018 MITek Industries, Inc. Mon Mar 18 15:46:32 2019 Page 1  
 ID: FkpukmLuzMYa3V15rZ5b8\_zdJ7d-zw\_1skZiNIHKTNNWgeW1sZtSoYr1w2azjn5wzZgBb  
 Scale = 1:35.6



| LUMBER                | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|-----------------------|-------------------|--------|------|--------|--------|
| O - A                 | 2x4               | DRY    | No.2 | SPF    |        |
| A - C                 | 2x4               | DRY    | No.2 | SPF    |        |
| C - F                 | 2x4               | DRY    | No.2 | SPF    |        |
| F - G                 | 2x4               | DRY    | No.2 | SPF    |        |
| H - G                 | 2x4               | DRY    | No.2 | SPF    |        |
| O - K                 | 2x6               | DRY    | No.2 | SPF    |        |
| K - H                 | 2x6               | DRY    | No.2 | SPF    |        |
| ALL WEBS              | 2x3               | DRY    | No.2 | SPF    |        |
| DRY: SEASONED LUMBER. |                   |        |      |        |        |

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

| CHORDS #ROWS                            | SURFACE SPACING (IN) | LOAD (PLF)  |
|-----------------------------------------|----------------------|-------------|
| TOP CHORDS: (0.122'X3') SPIRAL NAILS    |                      |             |
| O - A                                   | 12                   | TOP         |
| A - C                                   | 12                   | SIDE(61.0)  |
| C - F                                   | 12                   | TOP         |
| F - G                                   | 12                   | TOP         |
| H - G                                   | 12                   | TOP         |
| BOTTOM CHORDS: (0.122'X3') SPIRAL NAILS |                      |             |
| O - K                                   | 12                   | SIDE(183.1) |
| K - H                                   | 12                   | TOP         |
| WEBS: (0.122'X3') SPIRAL NAILS          |                      |             |
| 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.

| PLATES (table is in inches) | JT TYPE | PLATES | W   | LEN | Y    | X    |
|-----------------------------|---------|--------|-----|-----|------|------|
| A                           | TMVW-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| B                           | TMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| C                           | TS-t    | MT20   | 3.0 | 6.0 |      |      |
| D                           | TMVW-w  | MT20   | 2.0 | 4.0 |      |      |
| E                           | TMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| F                           | TTWW-m  | MT20   | 5.0 | 6.0 | 2.00 | 1.75 |
| G                           | TMVW-p  | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| H                           | BMV1+p  | MT20   | 3.0 | 6.0 |      |      |
| I                           | BMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| J                           | BMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| K                           | BS-t    | MT20   | 5.0 | 6.0 |      |      |
| L                           | BMVWW-t | MT20   | 5.0 | 6.0 |      |      |
| M                           | BMVW-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| O                           | BMV1+p  | MT20   | 3.0 | 6.0 |      |      |

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG    |
|----------|-------------------------|---------------------------------|-----------|-------------|
| JT       | VERT: 3081              | DOWN 3081                       | 0         | 1-8 & BLOCK |
| O        | HORZ 0                  | UP 0                            | 0         | 1-8         |
| H        | VERT: 1850              | DOWN 1850                       | 0         | 1-8         |

| UNFACTORED REACTIONS | 1ST LOASE | MAX. MIN. COMPONENT REACTIONS      |
|----------------------|-----------|------------------------------------|
| JT                   | COMBINED  | SNOW LIVE PERM.LIVE WIND DEAD SOIL |
| O                    | 2151      | 1489 / 0 0 / 0 0 / 0 661 / 0 0 / 0 |
| H                    | 1308      | 902 / 0 0 / 0 0 / 0 405 / 0 0 / 0  |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, H  
 2x8 DRY SPF No.2 BEARING BLOCK 4' LONG AT JT. O ATTACHED TO FRONT SIDE WITH 3 ROWS OF (0.122'X3') SPIRAL NAILS SPACED 3" C.C. 24 NAILS TOTAL.

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

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

### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED    | VERT. LOAD | MAX. FACTORED | WEBS  | MAX. FACTORED | FACTORED      |
|--------|---------------|-------------|------------|---------------|-------|---------------|---------------|
| MEMB.  | FORCE (LBS)   | VERT. (PLF) | LC1        | MAX. CSI (LC) | MEMB. | FORCE (LBS)   | MAX. CSI (LC) |
| FR-TO  |               | FROM TO     |            |               | FR-TO |               |               |
| O-A    | -3090 / 0     | 0.0         | 0.0        | 0.39 (1)      | I-F   | -390 / 0      | 0.05 (1)      |
| A-P    | -3431 / 0     | -102.1      | -102.1     | 0.30 (1)      | L-D   | -387 / 0      | 0.05 (1)      |
| P-Q    | -3431 / 0     | -102.1      | -102.1     | 0.30 (1)      | J-E   | 0 / 1791      | 0.22 (1)      |
| Q-B    | -3431 / 0     | -102.1      | -102.1     | 0.30 (1)      | J-E   | -1178 / 0     | 0.15 (1)      |
| B-C    | -3840 / 0     | -102.1      | -102.1     | 0.28 (1)      | L-E   | 0 / 1015      | 0.13 (1)      |
| C-D    | -3840 / 0     | -102.1      | -102.1     | 0.28 (1)      | A-M   | 0 / 4399      | 0.54 (1)      |
| D-E    | -3840 / 0     | -102.1      | -102.1     | 0.23 (1)      | M-B   | -1128 / 0     | 0.14 (1)      |
| E-F    | -3061 / 0     | -102.1      | -102.1     | 0.21 (1)      | B-L   | 0 / 855       | 0.07 (1)      |
| F-G    | -2026 / 0     | -102.1      | -102.1     | 0.16 (1)      | G     | 0 / 855       | 0.07 (1)      |
| H-G    | -1839 / 0     | 0.0         | 0.0        | 0.10 (1)      |       |               |               |
| O-N    | 0 / 0         | -18.5       | -18.5      | 0.18 (1)      |       |               |               |
| N-R    | 0 / 0         | -18.5       | -18.5      | 0.18 (1)      |       |               |               |
| R-M    | 0 / 0         | -18.5       | -18.5      | 0.18 (1)      |       |               |               |
| M-S    | 0 / 3431      | -18.5       | -18.5      | 0.65 (1)      |       |               |               |
| S-L    | 0 / 3431      | -18.5       | -18.5      | 0.65 (1)      |       |               |               |
| L-K    | 0 / 3081      | -18.5       | -18.5      | 0.31 (1)      |       |               |               |
| K-J    | 0 / 3081      | -18.5       | -18.5      | 0.31 (1)      |       |               |               |
| J-I    | 0 / 1672      | -18.5       | -18.5      | 0.15 (1)      |       |               |               |
| I-H    | 0 / 0         | -18.5       | -18.5      | 0.02 (4)      |       |               |               |

| FACTORED CONCENTRATED LOADS (LBS) | JT     | LOC.  | LC1   | MAX- | MAX+ | FACE  | DIR  | VERT | TOTAL | FEEL | FRONT |
|-----------------------------------|--------|-------|-------|------|------|-------|------|------|-------|------|-------|
| B                                 | 4-9-8  | -123  | -123  |      |      | FRONT | VERT |      |       |      |       |
| M                                 | 4-9-8  | -26   | -26   |      |      | FRONT | VERT |      |       |      |       |
| N                                 | 9-8    | -28   | -28   |      |      | FRONT | VERT |      |       |      |       |
| P                                 | 9-8    | -134  | -134  |      |      | FRONT | VERT |      |       |      |       |
| Q                                 | 2-9-8  | -123  | -123  |      |      | FRONT | VERT |      |       |      |       |
| R                                 | 2-9-8  | -26   | -26   |      |      | FRONT | VERT |      |       |      |       |
| S                                 | 5-9-12 | -1820 | -1820 |      |      | FRONT | VERT |      |       |      |       |

### DESIGN CRITERIA

SPECIFIED LOADS:  
 TOP CH. LL = 29.0 PSF  
 DL = 6.0 PSF  
 BOT CH. LL = 0.0 PSF  
 DL = 7.4 PSF  
 TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF NBCC 2015, CBC 2012  
 - CSA 086-09, CSA 086-14  
 - TPC 2011, TPC 2014

(95 % OF 37.6 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.08")  
 ALLOWABLE DEFL.(TL) = L/360 (0.73")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSK TC=0.39/1.00 (A-O:1), BC=0.65/1.00 (L-M:1), WB=0.54/1.00 (A-M:1), SE=0.47/1.00 (L-M: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 LEFT HEEL ONLY

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

NAIL VALUES  
 PLATE GRIP(DRY) SHEAR SECTION (PSD) (PLI) (PLI)  
 MAX MIN MAX MIN MAX MIN  
 MT20 618 354 1857 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.89 (M) (INPUT = 0.90)  
 JSI METAL= 0.43 (A) (INPUT = 1.00)

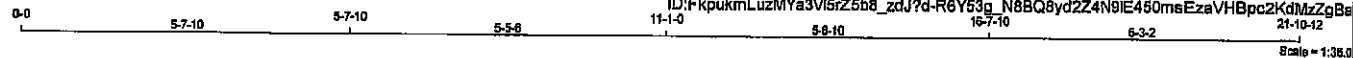
DRWG NO. TAM 71905428  
 STRUCTURAL  
 COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T56        | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1:38.0

#### LUMBER

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

| CHORDS | SIZE | DRY | LUMBER | DESCR. |
|--------|------|-----|--------|--------|
| L - A  | 2x4  | DRY | No.2   | SPF    |
| A - C  | 2x4  | DRY | No.2   | SPF    |
| C - E  | 2x4  | DRY | No.2   | SPF    |
| E - F  | 2x4  | DRY | No.2   | SPF    |
| G - F  | 2x4  | DRY | No.2   | SPF    |
| L - I  | 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    |
|----|--------|--------|-----|-----|------|------|
| A  | TMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| B  | TMVW-w | MT20   | 2.0 | 4.0 |      |      |
| C  | TS-t   | MT20   | 3.0 | 6.0 |      |      |
| D  | TMVW-t | MT20   | 4.0 | 4.0 |      |      |
| E  | TTVW-w | MT20   | 5.0 | 6.0 | 2.00 | 1.50 |
| F  | TMVW-p | MT20   | 5.0 | 6.0 | Edge |      |
| G  | BMV1-p | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| I  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| J  | BMVW-t | MT20   | 4.0 | 4.0 |      |      |
| K  | BMVW-w | MT20   | 5.0 | 6.0 | 2.50 | 3.25 |
| L  | 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 |
|----|-------------------------|---------------------------------|-----------|-----------|
|    | VERT                    | HORZ                            | DOWN      | HORZ      |
| JT | 1320                    | 0                               | 1320      | 0         |
| L  | 1320                    | 0                               | 1320      | 0         |
| G  | 1320                    | 0                               | 1320      | 0         |

##### UNFACTORED REACTIONS

|    | 1ST LCASE | SNOW    | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|---------|-------|------------|-------|---------|-------|
| JT | 929       | 636 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 293 / 0 | 0 / 0 |
| L  | 929       | 636 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 293 / 0 | 0 / 0 |
| G  | 929       | 636 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 293 / 0 | 0 / 0 |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.88 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 |                           |                        |  |
| L-A    | -1277 / 0                 | 0.0                       | 0.0 0.58 (1)           | H-E   | -151 / 43                 | 0.08 (1)               |  |
| A-B    | -1221 / 0                 | -102.1                    | -102.1 0.47 (1)        | H-F   | 0 / 1147                  | 0.28 (1)               |  |
| B-C    | -1221 / 0                 | -102.1                    | -102.1 0.47 (1)        | K-B   | -821 / 0                  | 0.24 (1)               |  |
| C-D    | -1221 / 0                 | -102.1                    | -102.1 0.47 (1)        | A-K   | 0 / 1808                  | 0.36 (1)               |  |
| D-E    | -1570 / 0                 | -102.1                    | -102.1 0.49 (1)        | J-E   | 0 / 605                   | 0.14 (1)               |  |
| E-F    | -1343 / 0                 | -102.1                    | -102.1 0.57 (1)        | J-D   | -302 / 0                  | 0.12 (1)               |  |
| G-F    | -1281 / 0                 | 0.0                       | 0.0 0.13 (1)           | K-D   | -465 / 0                  | 0.47 (1)               |  |
| L-K    | 0 / 0                     | -18.5                     | -18.5 0.14 (4)         |       |                           |                        |  |
| K-J    | 0 / 1570                  | -18.5                     | -18.5 0.32 (1)         |       |                           |                        |  |
| J-I    | 0 / 1112                  | -18.5                     | -18.5 0.25 (1)         |       |                           |                        |  |
| I-H    | 0 / 1112                  | -18.5                     | -18.5 0.25 (1)         |       |                           |                        |  |
| H-G    | 0 / 0                     | -18.5                     | -18.5 0.13 (4)         |       |                           |                        |  |

TOTAL WEIGHT = 90 lb

(M)

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |               |
|------------|---------------|
| TOP CH.    | LL = .290 PSF |
|            | DL = 6.0 PSF  |
| BOT CH.    | LL = 0.0 PSF  |
|            | DL = 7.4 PSF  |
| TOTAL LOAD | = 42.4 PSF    |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:

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

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(LL) = L/989 (0.05")  
ALLOWABLE DEFL.(TL) = L/360 (0.73")  
CALCULATED VERT. DEFL.(TL) = L/989 (0.10")

CSI: TC=0.57/1.00 (E-F), BC=0.32/1.00 (J-K), WB=0.47/1.00 (D-K), BS=0.27/1.00 (A-B-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

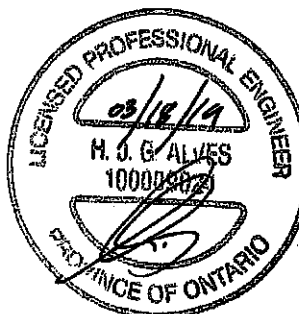
##### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.75 (F) (INPUT = 0.90)  
JSI METAL= 0.32 (K) (INPUT = 1.00)



DRWG NO. TAM 77909429  
STRUCTURAL  
COMPONENT ONLY

Tamarack Roof Truss, Burlington

\_\_\_\_\_



**DRY: SEASONED LUMBER.**

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

### UNFACTORED REACTIONS

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

## **BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.20 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)**

## DESIGN CRITERIA

**SPECIFIED LOADS:**

|              |      |      |     |
|--------------|------|------|-----|
| TOP CH.      | LL = | 29.0 | PSF |
|              | DL = | 6.0  | PSF |
| BOT CH.      | LL = | 0.0  | PSF |
|              | DL = | 7.4  | PSF |
| TOTAL LOAD = |      | 42.4 | PSF |

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

LOADING IN FLAT SECTION BASED ON A  
SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, OBC 2012  
- CSA 088-08, CSA 088-14  
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")  
CALCULATED VERT. DEFL.(LL) = L/980 (0.04")  
ALLOWABLE DEFL.(TL)= L/360 (0.73")  
CALCULATED VERT. DEFL.(TL) = L/980 (0.09")

CSI: TC=0.92/1.00 (A-L:1), BC=0.28/1.00 (G-H:1),  
WB=0.61/1.00 (C-K:1), SSI=0.24/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

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

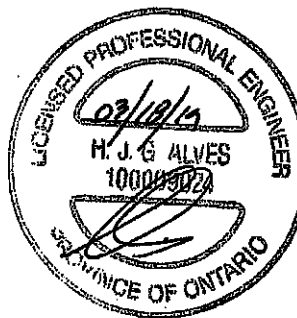
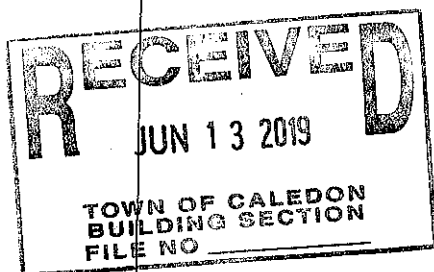
| NAIL VALUES |           |     |       |     |         |      |
|-------------|-----------|-----|-------|-----|---------|------|
| PLATE       | GRIP(DRY) |     | SHEAR |     | SECTION |      |
|             | (PSI)     |     | (PLI) |     | (PLI)   |      |
|             | MAX       | MIN | MAX   |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

**PLATE PLACEMENT TOL. = 0.250 inches**

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.76 (A) (INPUT = 0.90 )  
JSI METAL= 0.38 (E) (INPUT = 1.00 )

DWG NO. TAM 17905430  
STRUCTURAL  
COMPONENT ONLY



Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MITEK Industries, Inc. Mon Mar 18 15:46:36 2019 Page 1  
ID:FkpukmLuzMYa3Vi5rZ5b8\_zdJ7d-rhEEi0GR6ojp4m8lWfSsijS03G2nodeVaH\_EhzZgBX  
13-7-10 1-5 17-7-15 21-10-12



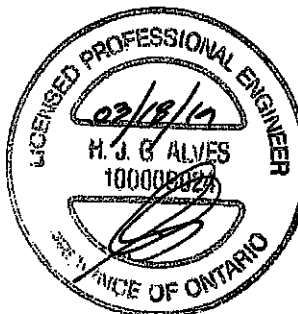
TOTAL WEIGHT = 87 lb

DRY: SEASONED LUMBER.

Edgs - INDICATES REFERENCE CORNER OF PLATE  
TOUCHES EDGE OF CHORD

| CHORDS |                           |                           |                  | WEBB               |       |                           |              |
|--------|---------------------------|---------------------------|------------------|--------------------|-------|---------------------------|--------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
| FR-TO  |                           | FROM TO                   |                  |                    | FR-TO |                           |              |
| K-A    | -1268 / 0                 | 0.0                       | 0.0 0.29 (1)     | 5.71               | A-J   | 0 / 1424                  | 0.32 (1)     |
| A-B    | -1010 / 0                 | -102.1                    | -102.1 0.89 (1)  | 4.37               | J-B   | -854 / 0                  | 0.78 (1)     |
| B-C    | -1010 / 0                 | -102.1                    | -102.1 0.88 (1)  | 4.37               | J-C   | -9 / 5                    | 0.01 (4)     |
| C-D    | -1236 / 0                 | -102.1                    | -102.1 0.32 (1)  | 5.38               | H-C   | 0 / 251                   | 0.05 (1)     |
| D-E    | -1361 / 0                 | -102.1                    | -102.1 0.32 (1)  | 5.18               | H-D   | -214 / 0                  | 0.12 (7)     |
| E-F    | -1285 / 0                 | 0.0                       | 0.0 0.14 (1)     | 7.11               | G-D   | -273 / 0                  | 0.06 (1)     |
|        |                           |                           |                  |                    | G-E   | 0 / 1208                  | 0.27 (1)     |
| K-J    | 0 / 0                     | -18.5                     | -18.5 0.22 (4)   | 10.00              |       |                           |              |
| J-I    | 0 / 1007                  | -18.5                     | -18.5 0.30 (4)   | 10.00              |       |                           |              |
| I-H    | 0 / 1007                  | -18.5                     | -18.5 0.30 (4)   | 10.00              |       |                           |              |
| H-G    | 0 / 1154                  | -18.5                     | -18.5 0.25 (1)   | 10.00              |       |                           |              |
| G-F    | 0 / 0                     | -18.5                     | -18.5 0.07 (4)   | 10.00              |       |                           |              |

JSI GRIP= 0.75 (E) (INPUT = 0.90 )  
JSI METAL= 0.34 (I) (INPUT = 1.00 )



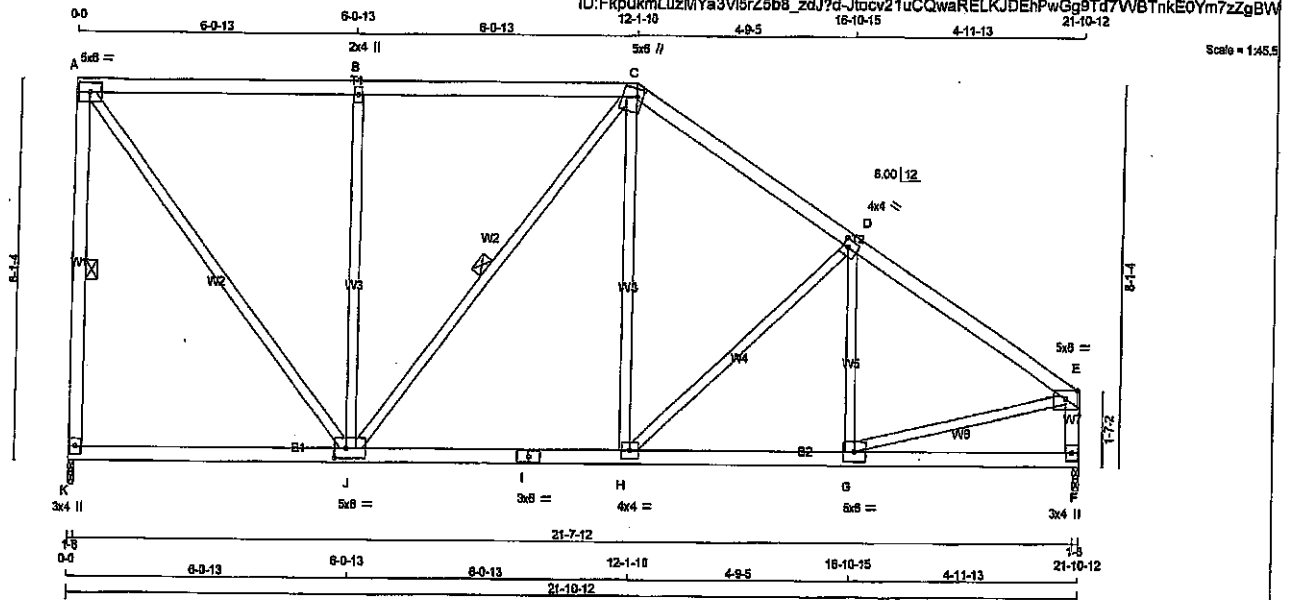
DWG NO. TAM 71905431  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T59        | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 103 lb

#### LUMBER

N. L. G. A. RULES

| CHORDS | SIZE | LUMBER | DESCR. |
|--------|------|--------|--------|
| K - A  | 2x4  | DRY    | No.2   |
| A - C  | 2x4  | DRY    | No.2   |
| C - E  | 2x4  | DRY    | No.2   |
| E - J  | 2x4  | DRY    | No.2   |
| J - F  | 2x4  | DRY    | No.2   |

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| A  | TMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| B  | TMVW-w  | MT20   | 2.0 | 4.0 |      |      |
| C  | TTWW+m  | MT20   | 5.0 | 6.0 | 2.00 | 1.50 |
| D  | TMVW-l  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| E  | TMVW-p  | MT20   | 5.0 | 6.0 | Edge |      |
| F  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| G  | BMVW-l  | MT20   | 5.0 | 6.0 |      |      |
| H  | BMVW-l  | MT20   | 4.0 | 4.0 |      |      |
| I  | BS-1    | MT20   | 3.0 | 6.0 |      |      |
| J  | BMVWW-l | MT20   | 5.0 | 6.0 | 2.60 | 3.00 |
| K  | 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 | RECORD BRG |
|----|-------------------------|---------------------------------|-----------|------------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ       |
| K  | 1320                    | 0                               | 1320      | 0          |
| F  | 1320                    | 0                               | 1320      | 0          |

##### UNFACTORED REACTIONS

| JT | 1ST CASE | SNOW    | LIVE  | WIND  | DEAD    | SOIL  |
|----|----------|---------|-------|-------|---------|-------|
| K  | 928      | 636 / 0 | 0 / 0 | 0 / 0 | 293 / 0 | 0 / 0 |
| F  | 928      | 636 / 0 | 0 / 0 | 0 / 0 | 293 / 0 | 0 / 0 |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.94 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF A-K, C-J.

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC2) | MAX. FACTORED VERT. LOAD (LC3) | MAX. FACTORED VERT. LOAD (LC4) | MAX. FACTORED VERT. LOAD (LC5) | MAX. FACTORED VERT. LOAD (LC6) | MAX. FACTORED VERT. LOAD (LC7) | MAX. FACTORED VERT. LOAD (LC8) | MAX. FACTORED VERT. LOAD (LC9) | MAX. FACTORED VERT. LOAD (LC10) |
|--------|-------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|
| FR-TO  |       |                           |                           |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                 |
| K-A    |       | -1274 / 0                 | 0.0                       | 0.0                            | 0.38 (1)                       | 5.71                           |                                |                                |                                |                                |                                |                                |                                 |
| A-B    |       | -811 / 0                  | -102.1                    | -102.1                         | 0.87 (1)                       | 5.51                           |                                |                                |                                |                                |                                |                                |                                 |
| B-C    |       | -811 / 0                  | -102.1                    | -102.1                         | 0.87 (1)                       | 5.51                           |                                |                                |                                |                                |                                |                                |                                 |
| C-D    |       | -1138 / 0                 | -102.1                    | -102.1                         | 0.45 (1)                       | 5.34                           |                                |                                |                                |                                |                                |                                |                                 |
| D-E    |       | -1381 / 0                 | -102.1                    | -102.1                         | 0.47 (1)                       | 4.84                           |                                |                                |                                |                                |                                |                                |                                 |
| E-F    |       | -1281 / 0                 | 0.0                       | 0.0                            | 0.14 (1)                       | 7.13                           |                                |                                |                                |                                |                                |                                |                                 |
| K-J    |       | 0 / 0                     | -18.5                     | -18.5                          | 0.17 (4)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| J-I    |       | 0 / 922                   | -18.5                     | -18.5                          | 0.24 (4)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| I-H    |       | 0 / 922                   | -18.5                     | -18.5                          | 0.24 (4)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| H-G    |       | 0 / 1178                  | -18.5                     | -18.5                          | 0.24 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| G-F    |       | 0 / 0                     | -18.5                     | -18.5                          | 0.10 (4)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |



#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 28.0 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:

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

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.73")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.04")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.73")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.03")

CSI:  $TC=0.67/1.00$  (A-B:1),  $BC=0.24/1.00$  (G-H:1),  $WB=0.97/1.00$  (B-J:1),  $GS=0.30/1.00$  (A-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.

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) | (PLI)   |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 818       | 354   | 1887    |
|       |           | 788   | 1887    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.75 (J) (INPUT = 0.90)  
JSI METAL= 0.33 (I) (INPUT = 1.00)

DRWG NO. TAM 1705432  
STRUCTURAL  
COMPONENT ONLY

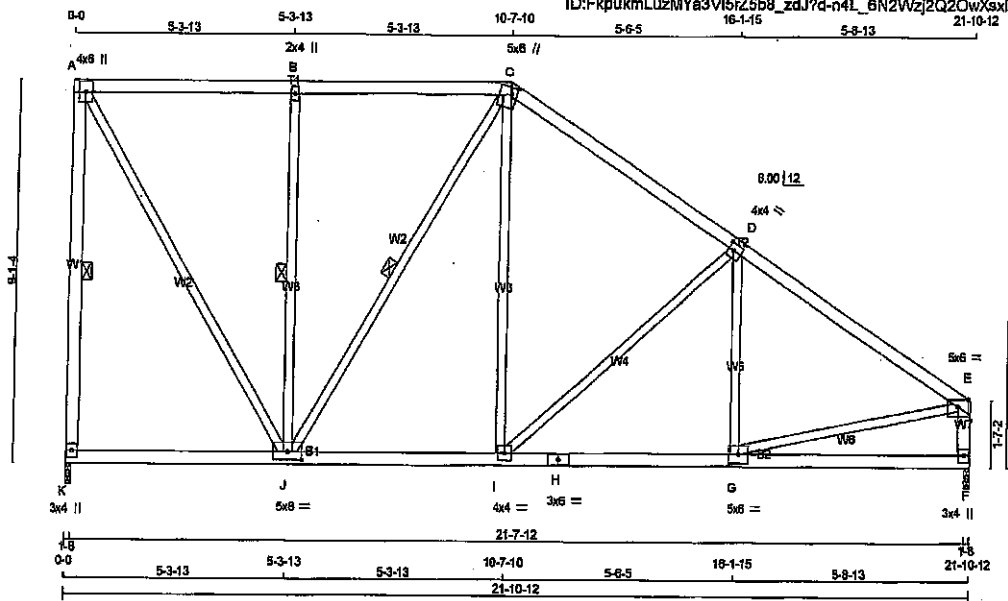
|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T60        | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1/50.0



TOTAL WEIGHT = 108 lb

#### LUMBER

N. L. G. A. RULES

CHORDS SIZE

K - A 2x4 DRY No.2

A - C 2x4 DRY No.2

C - E 2x4 DRY No.2

F - E 2x4 DRY No.2

K - H 2x4 DRY No.2

H - F 2x4 DRY No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| A  | TMVW+p | MT20   | 4.0 | 6.0 |      |      |
| B  | TMVW+w | MT20   | 2.0 | 4.0 |      |      |
| C  | TTVW+m | MT20   | 5.0 | 6.0 | 2.00 | 1.50 |
| D  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| E  | TMVW-p | MT20   | 5.0 | 6.0 | Edge |      |
| F  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| G  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| H  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| I  | BMVW-t | MT20   | 4.0 | 4.0 |      |      |
| J  | BMVW-t | MT20   | 5.0 | 8.0 | 2.25 | 4.00 |
| K  | 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 IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| K  | 1320                    | 0    | 1320                            | 0    | 1-8             | 1-8            |
| F  | 1320                    | 0    | 1320                            | 0    | 1-8             | 1-8            |

##### UNFACTORED REACTIONS

| JT | 1ST CASE COMBINED | MAX./MIN. COMPONENT REACTIONS |       |           |       |         |       |
|----|-------------------|-------------------------------|-------|-----------|-------|---------|-------|
|    |                   | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| K  | 929               | 636 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 293 / 0 | 0 / 0 |
| F  | 929               | 636 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 293 / 0 | 0 / 0 |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.98 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF A-K, B-J, C-J.

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS        |           |          |        |          | WEBS          |       |               |          |  |
|---------------|-----------|----------|--------|----------|---------------|-------|---------------|----------|--|
| MAX. FACTORED |           | FACTORED |        |          | MAX. FACTORED |       | MAX. FACTORED |          |  |
| MEMB.         | FORCE     | VERT.    | LOAD   | LC1      | MAX.          | MEMB. | FORCE         | MAX.     |  |
|               | (LBS)     | (PLF)    |        | CSI (LC) | UNBRAC        |       | (LBS)         | CSI (LC) |  |
| FR-TO         |           | FROM     | TO     |          | LENGTH        | FR-TO |               |          |  |
| K-A           | -1279 / 0 | 0.0      | 0.0    | 0.48 (1) | 5.70          | A-J   | 0 / 1253      | 0.28 (1) |  |
| A-B           | -651 / 0  | -102.1   | -102.1 | 0.37 (1) | 6.25          | J-B   | -672 / 0      | 0.38 (1) |  |
| B-C           | -651 / 0  | -102.1   | -102.1 | 0.37 (1) | 6.25          | J-C   | -340 / 0      | 0.28 (1) |  |
| C-D           | -1027 / 0 | -102.1   | -102.1 | 0.43 (1) | 5.61          | I-C   | 0 / 424       | 0.10 (1) |  |
| D-E           | -1385 / 0 | -102.1   | -102.1 | 0.48 (1) | 4.98          | I-D   | -480 / 0      | 0.57 (1) |  |
| E-F           | -1276 / 0 | 0.0      | 0.0    | 0.13 (1) | 7.13          | G-D   | -146 / 53     | 0.06 (1) |  |
|               |           |          |        |          |               | G-E   | 0 / 1213      | 0.27 (1) |  |
| K-J           | 0 / 0     | -18.5    | -18.5  | 0.12 (4) | 10.00         |       |               |          |  |
| J-I           | 0 / 826   | -18.5    | -18.5  | 0.19 (1) | 10.00         |       |               |          |  |
| I-H           | 0 / 1184  | -18.5    | -18.5  | 0.28 (1) | 10.00         |       |               |          |  |
| H-G           | 0 / 1184  | -18.5    | -18.5  | 0.26 (1) | 10.00         |       |               |          |  |
| G-F           | 0 / 0     | -18.5    | -18.5  | 0.14 (4) | 10.00         |       |               |          |  |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 28.0 PSF

DL = 8.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OBC 2012

- CSA 086-09, CSA 086-14

- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")

CALCULATED VERT. DEFL.(LL) = L/999 (0.04")

ALLOWABLE DEFL.(TL) = L/360 (0.73")

CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.48/1.00 (A-K:1), BC=0.26/1.00 (G-I:1), WB=0.57/1.00 (D-I:1), SS=0.26/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) | (PLI)   |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 618       | 354   | 1887    |
|       |           | 788   | 1887    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.74 (E) (INPUT = 0.80)  
JSI METAL= 0.37 (H) (INPUT = 1.00)



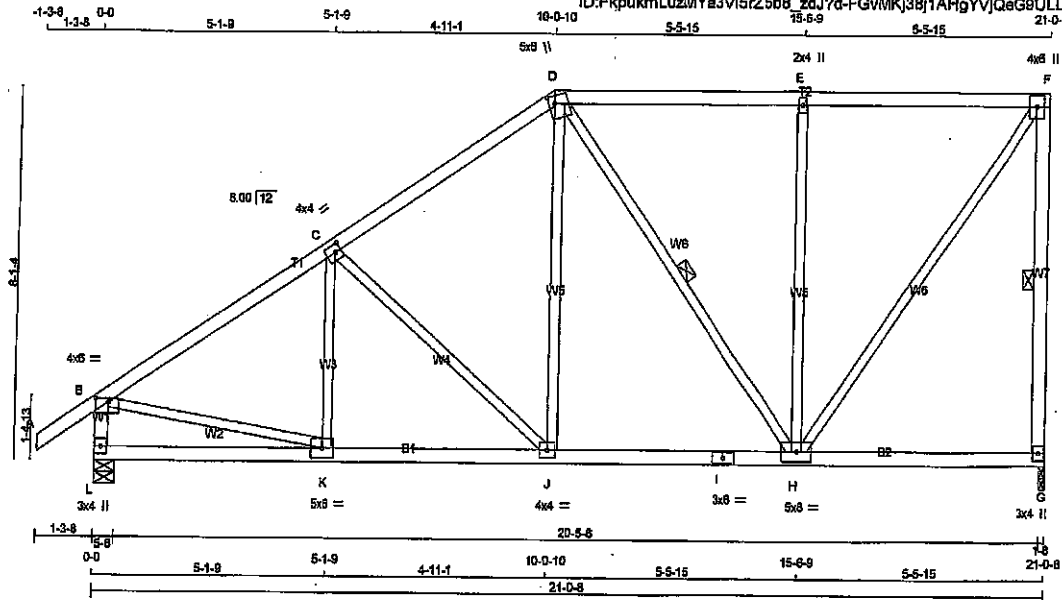
DWG NO. TAM 71905433  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T65        | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1:48.5

TOTAL WEIGHT = 102 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    |
| G - F  | 2x4  | DRY No.2 | SPF    |
| L - B  | 2x4  | DRY No.2 | SPF    |
| L - I  | 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  | TMVW-p | MT20   | 4.0 | 6.0 | 1.00 | 3.25 |
| C  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D  | TTVW+m | MT20   | 5.0 | 6.0 | 2.00 | 1.50 |
| E  | TMVW-w | MT20   | 2.0 | 4.0 |      |      |
| F  | TMVW+p | MT20   | 4.0 | 6.0 |      |      |
| G  | BMVW-t | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVW-w | MT20   | 5.0 | 8.0 |      |      |
| I  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| J  | BMVW-t | MT20   | 4.0 | 4.0 |      |      |
| K  | BMVW-t | MT20   | 5.0 | 8.0 |      |      |
| L  | 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 | REORD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|-----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |           |
| G  | 1289                    | 0    | 1289                            | 0    | 1-8       | 1-8       |
| L  | 1409                    | 0    | 1409                            | 0    | 5-8       | 5-8       |

##### UNFACTORED REACTIONS

| JT | 1ST LCASE |       | MAX/MIN. COMPONENT REACTIONS |           |      |       |      |
|----|-----------|-------|------------------------------|-----------|------|-------|------|
|    | COMBINED  | SNOW  | LIVE                         | PERM.LIVE | WIND | DEAD  | SOIL |
| G  | 893       | 811/0 | 0/0                          | 0/0       | 0/0  | 282/0 | 0/0  |
| L  | 989       | 881/0 | 0/0                          | 0/0       | 0/0  | 288/0 | 0/0  |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.80 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                 | WEBS               |       |                           |              |
|--------|---------------------------|---------------------------|-----------------|--------------------|-------|---------------------------|--------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS1 (LC)   | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX CS1 (LC) |
| FR-TO  |                           | FROM                      | TO              |                    | FR-TO |                           |              |
| A-B    | 0/39                      | -102.1                    | -102.1 0.14 (1) | 10.00              | K-C   | -145/42                   | 0.05 (1)     |
| B-C    | -1374/0                   | -102.1                    | -102.1 0.50 (1) | 4.80               | C-J   | -425/0                    | 0.38 (1)     |
| C-D    | -1063/0                   | -102.1                    | -102.1 0.47 (1) | 5.43               | J-D   | 0/378                     | 0.08 (1)     |
| D-E    | -748/0                    | -102.1                    | -102.1 0.54 (1) | 8.12               | D-H   | -249/0                    | 0.16 (1)     |
| E-F    | -717/0                    | -102.1                    | -102.1 0.54 (1) | 6.12               | H-E   | -694/0                    | 0.88 (1)     |
| G-F    | -1227/0                   | 0.0                       | 0.0 0.39 (1)    | 5.79               | H-F   | 0/1240                    | 0.28 (1)     |
| L-B    | -1369/0                   | 0.0                       | 0.0 0.14 (1)    | 6.94               | B-K   | 0/1197                    | 0.27 (1)     |
| L-K    | 0/0                       | -18.5                     | -18.5 0.11 (4)  | 10.00              |       |                           |              |
| K-J    | 0/1171                    | -18.5                     | -18.5 0.24 (1)  | 10.00              |       |                           |              |
| J-I    | 0/859                     | -18.5                     | -18.5 0.21 (1)  | 10.00              |       |                           |              |
| I-H    | 0/859                     | -18.5                     | -18.5 0.21 (1)  | 10.00              |       |                           |              |
| H-G    | 0/0                       | -18.5                     | -18.5 0.14 (4)  | 10.00              |       |                           |              |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(55% OF 37.6 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.70")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL) = L/360 (0.70")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.54/1.00 (E-F:1), BC=0.24/1.00 (J-K:1),  
WB=0.68/1.00 (E-H:1), SI=0.27/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

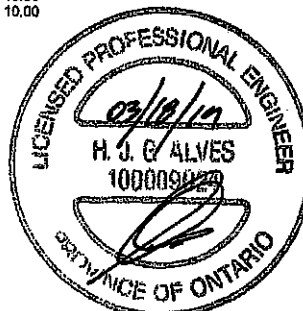
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1887 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.75 (H) (INPUT = 0.90)  
JSI METAL= 0.33 (B) (INPUT = 1.00)

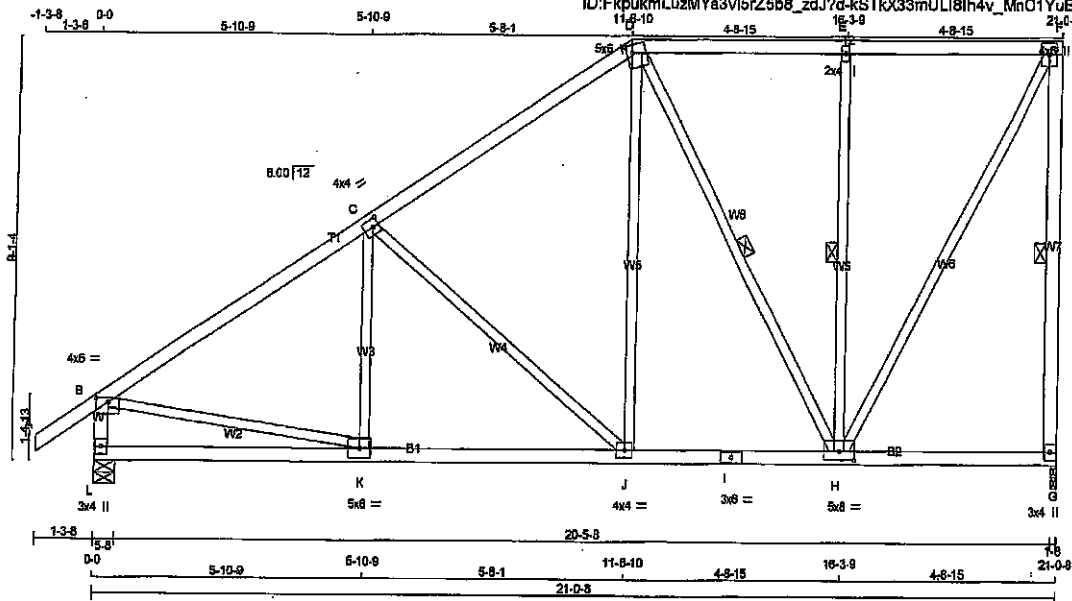


DRWG NO. TAM 77905434  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T86        | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1/4" = 1'-0"

TOTAL WEIGHT = 107 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    |
| G - H             | 2x4    | DRY  | No.2   | SPF    |
| L - I             | 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  | TMVW-p  | MT20   | 4.0 | 6.0 | 1.00 | 3.25 |
| C  | TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D  | TTVW+m  | MT20   | 5.0 | 6.0 | 2.00 | 1.50 |
| E  | TMVW-w  | MT20   | 2.0 | 4.0 |      |      |
| F  | TMVW-p  | MT20   | 4.0 | 6.0 |      |      |
| G  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVWW-t | MT20   | 6.0 | 8.0 | 2.25 | 4.00 |
| I  | BS-t    | MT20   | 3.0 | 6.0 |      |      |
| J  | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| K  | BMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| L  | 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 |
|----|-------------------------|---------------------------------|-----------|----------|
| G  | 1269 0                  | 1269 0                          | 1-8       | 1-8      |
| L  | 1409 0                  | 1409 0                          | 5-8       | 5-8      |

##### UNFACTORED REACTIONS

| JT | 1ST LOASE COMBINED | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|--------------------|---------|-------|-----------|-------|---------|-------|
| G  | 893                | 611 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 282 / 0 | 0 / 0 |
| L  | 989                | 691 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 298 / 0 | 0 / 0 |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.96 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |              | WEBS  |                           |              |          |
|--------|---------------------------|---------------------------|--------------|-------|---------------------------|--------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS (LC) |          |
| FR-TO  |                           | FROM TO                   | LENGTH       | FR-TO |                           |              |          |
| A-B    | 0 / 39                    | -102.1 -102.1             | 0.14 (1)     | 10.00 | K-C                       | -93 / 73     | 0.04 (1) |
| B-C    | -1366 / 0                 | -102.1 -102.1             | 0.48 (1)     | 4.96  | C-J                       | -554 / 0     | 0.65 (1) |
| C-D    | -944 / 0                  | -102.1 -102.1             | 0.45 (1)     | 5.75  | J-D                       | 0 / 455      | 0.10 (1) |
| D-E    | -567 / 0                  | -102.1 -102.1             | 0.29 (1)     | 8.25  | D-H                       | -400 / 0     | 0.28 (1) |
| E-F    | -567 / 0                  | -102.1 -102.1             | 0.29 (1)     | 8.25  | H-E                       | -588 / 0     | 0.32 (1) |
| G-F    | -1231 / 0                 | 0.0 0.0                   | 0.47 (1)     | 5.79  | H-F                       | 0 / 1188     | 0.27 (1) |
| L-B    | -1364 / 0                 | 0.0 0.0                   | 0.14 (1)     | 6.95  | B-K                       | 0 / 1188     | 0.27 (1) |
| L-K    | 0 / 0                     | -18.5 -18.5               | 0.15 (4)     | 10.00 |                           |              |          |
| K-J    | 0 / 1169                  | -18.5 -18.5               | 0.27 (1)     | 10.00 |                           |              |          |
| J-I    | 0 / 756                   | -18.5 -18.5               | 0.17 (1)     | 10.00 |                           |              |          |
| I-H    | 0 / 756                   | -18.5 -18.5               | 0.17 (1)     | 10.00 |                           |              |          |
| H-G    | 0 / 0                     | -18.5 -18.5               | 0.09 (4)     | 10.00 |                           |              |          |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 28.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.70")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL) = L/360 (0.70")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.48/1.00 (B-C-1), BC=0.27/1.00 (J-K-1),  
WS=0.65/1.00 (C-J-1), SS=0.24/1.00 (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

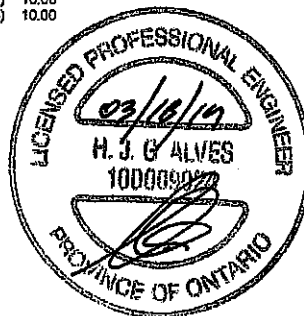
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.74 (H) (INPUT = 0.90)  
JSI METAL= 0.33 (B) (INPUT = 1.00)

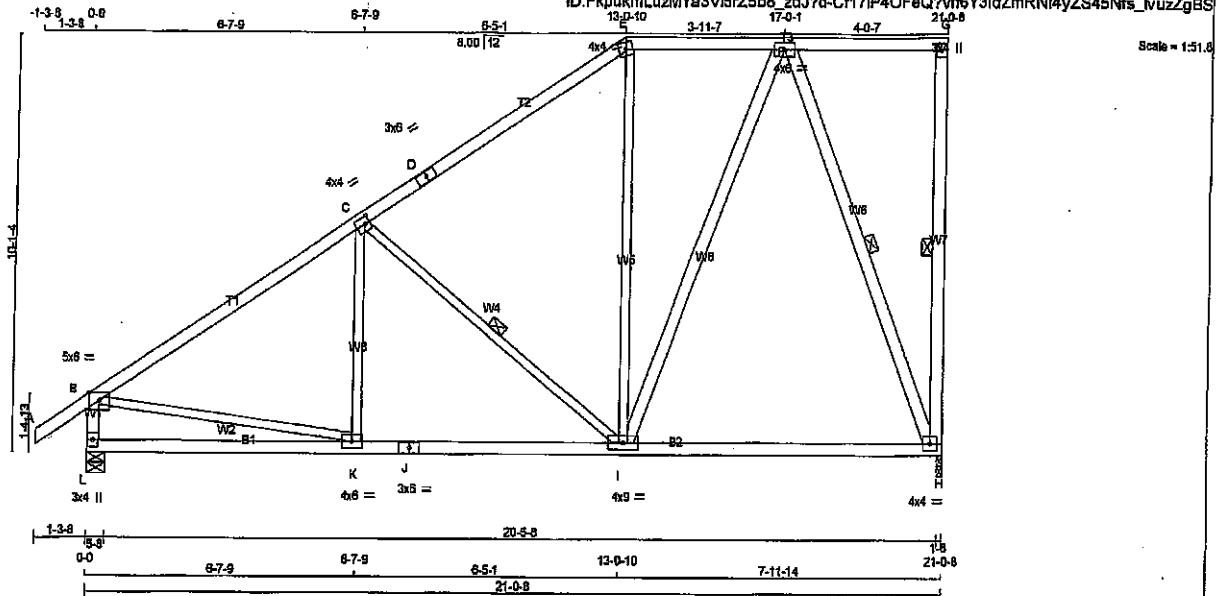


DRWG NO. TAM 77905435  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T67        | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 112 = 224 lb  
(M/F)

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

DRY: SEASONED LUMBER.

#### PLATES (Table in inches)

| JT TYPE  | PLATES | W   | LEN | Y    | X    |
|----------|--------|-----|-----|------|------|
| B TMVW-p | MT20   | 5.0 | 6.0 | Edge |      |
| 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 TMVW-t | MT20   | 4.0 | 6.0 |      |      |
| G TMV-p  | MT20   | 3.0 | 4.0 |      |      |
| H BMVW-t | MT20   | 4.0 | 4.0 |      |      |
| I BMVW-t | MT20   | 4.0 | 9.0 |      |      |
| J BS-t   | MT20   | 3.0 | 6.0 |      |      |
| K BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| L BMV-t  | MT20   | 3.0 | 4.0 |      |      |

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

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

| BEARINGS |      | FACTORED |                | MAXIMUM FACTORED |      | INPUT  |       | REQD  |     |
|----------|------|----------|----------------|------------------|------|--------|-------|-------|-----|
| JT       | VERT | HORZ     | GROSS REACTION | DOWN             | HORZ | UPLIFT | IN-SX | IN-SX | BRG |
| H        | 1289 | 0        | 1289           | 0                | 0    | 1-8    | 1-8   |       |     |
| L        | 1409 | 0        | 1409           | 0                | 0    | 5-8    | 5-8   |       |     |

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |      | WIND      |      | DEAD  |      | SOIL |  |
|-----------|----------|-------------------------------|------|-----------|------|-------|------|------|--|
| JT        | COMBINED | SNOW                          | LIVE | PERM.LIVE | WIND | DEAD  | SOIL |      |  |
| H         | 893      | 811/0                         | 0/0  | 0/0       | 0/0  | 282/0 | 0/0  |      |  |
| L         | 989      | 881/0                         | 0/0  | 0/0       | 0/0  | 298/0 | 0/0  |      |  |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.72 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 G-H, C-I, 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 |             | FACTORED       |           | MAX. FACTORED |               | WEBS  |             | MAX. FACTORED |          |
|--------|-------------|----------------|-----------|---------------|---------------|-------|-------------|---------------|----------|
| MEMB.  | FORCE (LBS) | VERT. LOAD LC1 | MAX (PLF) | CS1 (LC)      | UNBRAC LENGTH | MEMB. | FORCE (LBS) | MAX (LBS)     | CS1 (LC) |
| FR-TO  |             |                |           |               |               | FR-TO |             |               |          |
| A-B    | 0/39        | -102.1         | -102.1    | 0.14 (1)      | 10.00         | K-C   | -64/84      | 0.03 (1)      |          |
| B-C    | -1345/0     | -102.1         | -102.1    | 0.83 (1)      | 4.72          | C-I   | -665/0      | 0.33 (1)      |          |
| C-D    | -825/0      | -102.1         | -102.1    | 0.58 (1)      | 5.76          | I-E   | 0/74        | 0.03 (4)      |          |
| D-E    | -825/0      | -102.1         | -102.1    | 0.58 (1)      | 5.76          | I-F   | 0/586       | 0.09 (1)      |          |
| E-F    | -647/0      | -102.1         | -102.1    | 0.21 (1)      | 6.25          | F-H   | -1138/0     | 0.68 (1)      |          |
| F-G    | 0/0         | -102.1         | -102.1    | 0.27 (1)      | 10.00         | B-K   | 0/1171      | 0.25 (1)      |          |
| H-G    | -157/0      | 0.0            | 0.0       | 0.08 (1)      | 6.25          |       |             |               |          |
| L-B    | -1357/0     | 0.0            | 0.0       | 0.14 (1)      | 6.97          |       |             |               |          |
| L-K    | 0/0         | -18.5          | -18.5     | 0.16 (4)      | 10.00         |       |             |               |          |
| K-J    | 0/1158      | -18.5          | -18.5     | 0.34 (4)      | 10.00         |       |             |               |          |
| J-I    | 0/1158      | -18.5          | -18.5     | 0.34 (4)      | 10.00         |       |             |               |          |
| I-H    | 0/433       | -18.5          | -18.5     | 0.28 (4)      | 10.00         |       |             |               |          |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 28.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(65 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/380 (0.70")  
CALCULATED VERT. DEFL.(LL) = L/959 (0.03")  
ALLOWABLE DEFL.(TL) = L/380 (0.70")  
CALCULATED VERT. DEFL.(TL) = L/959 (0.12")

CSI: TC=0.63/1.00 (B-C:1), BC=0.34/1.00 (I-K:4), WB=0.88/1.00 (F-H: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.

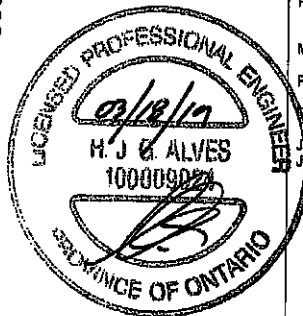
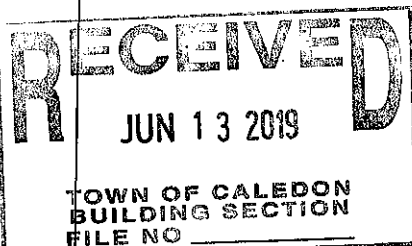
NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (FLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1687 788 1987 1856

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JT GRIP= 0.80 (B) (INPUT = 0.90)  
JH METAL= 0.35 (J) (INPUT = 1.00)

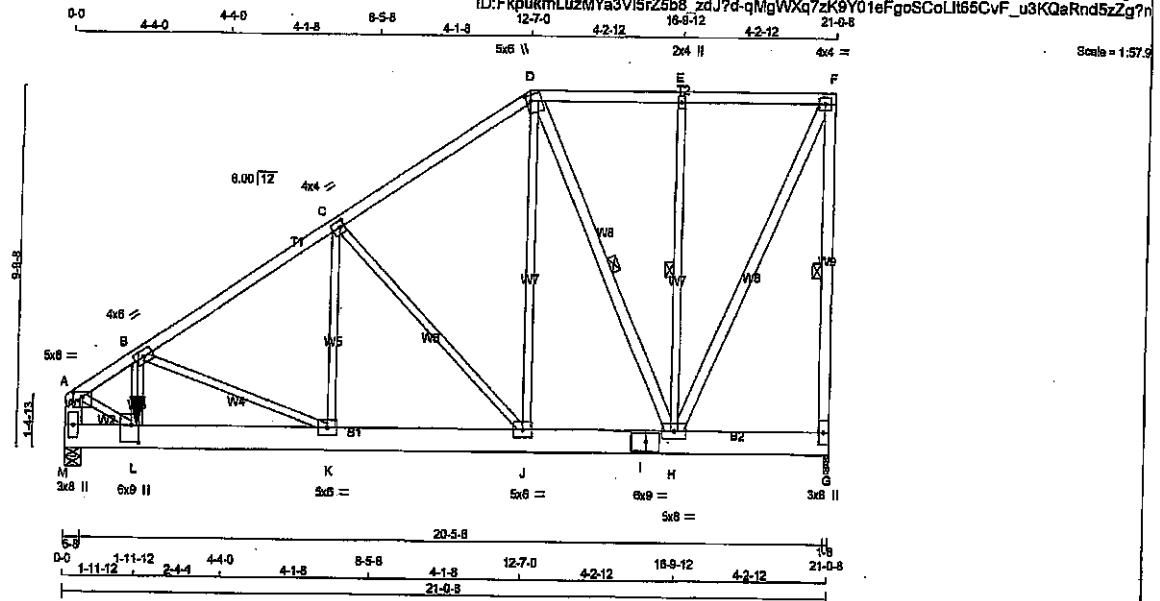
DWG NO. TAM 1905936  
STRUCTURAL  
COMPONENT ONLY



| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
|----------|------------|----------|-----|-------------|------------------|----------|
| 401794   | T68        | 1        | 3   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 15:59:08 2018 Page 1  
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TOTAL WEIGHT = 3 X 143 = 430 LB

#### LUMBER

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

| CHORDS | SIZE | LUMBER | DESCR. |
|--------|------|--------|--------|
| A - D  | 2x4  | DRY    | No.2   |
| D - F  | 2x4  | DRY    | No.2   |
| G - F  | 2x4  | DRY    | No.2   |
| M - A  | 2x6  | DRY    | No.2   |
| M - I  | 2x6  | DRY    | No.2   |
| I - G  | 2x6  | DRY    | No.2   |

| ALL WEBS | EXCEPT | SIZE | LUMBER | DESCR. |
|----------|--------|------|--------|--------|
| L - B    | 2x4    | DRY  | No.2   | SPF    |
| D - H    | 2x4    | DRY  | No.2   | SPF    |
| H - F    | 2x4    | DRY  | No.2   | SPF    |

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD (PLF)   |
|------------------------------------------|----------------------|--------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |              |
| A-D 1                                    | 12                   | TOP          |
| D-F 1                                    | 12                   | TOP          |
| F-G 1                                    | 12                   | TOP          |
| M-A 2                                    | 12                   | TOP          |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |              |
| M-I 3                                    | 4                    | SIDE(1556.5) |
| I-G 2                                    | 12                   | TOP          |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |              |
| 2x3 1                                    | 6                    | SIDE(70.3)   |
| B-L 1                                    | 6                    |              |
| 2x4 1                                    | 6                    |              |

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 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  | TMWV-p  | MT20   | 5.0 | 8.0 | 1.50 | 3.00 |
| B  | TMWV-t  | MT20   | 4.0 | 6.0 |      |      |
| C  | TMWV-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D  | TTWV+m  | MT20   | 5.0 | 8.0 | 2.00 | 1.50 |
| E  | TMWV-w  | MT20   | 2.0 | 4.0 |      |      |
| F  | TMWV-t  | MT20   | 4.0 | 4.0 |      |      |
| G  | BMV1+p  | MT20   | 3.0 | 8.0 |      |      |
| H  | BMVWW-t | MT20   | 5.0 | 8.0 |      |      |
| I  | BS-t    | MT20   | 8.0 | 9.0 |      |      |
| J  | BMWV-t  | MT20   | 5.0 | 8.0 |      |      |
| K  | BMWV-t  | MT20   | 5.0 | 8.0 |      |      |
| L  | BMWV-t  | MT20   | 8.0 | 9.0 | 5.50 | 2.50 |
| M  | BMV1+p  | MT20   | 3.0 | 8.0 |      |      |

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

##### BEARINGS

| JT | FACTORED GROSS REACTION | FACTORED GROSS REACTION | INPUT BRG | RECRD BRG |
|----|-------------------------|-------------------------|-----------|-----------|
|    | VERT                    | HORZ                    | DOWN      | UPLIFT    |
| G  | 1849                    | 0                       | 1849      | 0         |
| M  | 6858                    | 0                       | 6858      | 0         |

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX/MIN  | COMPONENT REACTIONS |
|----|-----------|----------|---------------------|
|    | COMBINED  | SNOW     | LIVE                |
| G  | 1300      | 897 / 0  | 0 / 0               |
| M  | 4813      | 3367 / 0 | 0 / 0               |

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

##### BRACING

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

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

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED | VERT. LOAD | LC1      | MAX      | MAX    | MEMB.     | MAX. FACTORED | FACTORED | VERT. LOAD | LC1   | MAX      | MAX    | MEMB.  |
|--------|---------------|----------|------------|----------|----------|--------|-----------|---------------|----------|------------|-------|----------|--------|--------|
| FR-TO  | MEMB.         | FORCE    | (LBS)      | (PLF)    | CSI (LC) | UNBRAC | LENGTH    | FR-TO         | MEMB.    | FORCE      | (LBS) | CSI (LC) | UNBRAC | LENGTH |
| A-B    | -6577 / 0     | -102.1   | -102.1     | 0.09 (1) | 4.55     | L-B    | 0 / 2875  | 0.15 (1)      |          |            |       |          |        |        |
| B-C    | -2977 / 0     | -102.1   | -102.1     | 0.18 (1) | 6.07     | B-K    | -3243 / 0 | 0.82 (1)      |          |            |       |          |        |        |
| C-D    | -1463 / 0     | -102.1   | -102.1     | 0.16 (1) | 6.25     | K-C    | 0 / 1652  | 0.12 (1)      |          |            |       |          |        |        |
| D-E    | -782 / 0      | -102.1   | -102.1     | 0.10 (1) | 6.25     | C-J    | -1941 / 0 | 0.80 (1)      |          |            |       |          |        |        |
| E-F    | -783 / 0      | -102.1   | -102.1     | 0.10 (1) | 6.25     | J-D    | 0 / 1429  | 0.11 (1)      |          |            |       |          |        |        |
| G-F    | -1815 / 0     | 0.0      | 0.0        | 0.28 (1) | 6.25     | D-H    | -1100 / 0 | 0.19 (1)      |          |            |       |          |        |        |
| M-A    | -8285 / 0     | 0.0      | 0.0        | 0.14 (1) | 7.01     | H-F    | -530 / 0  | 0.11 (1)      |          |            |       |          |        |        |
| M-L    | 0 / 0         | -18.5    | -18.5      | 0.16 (1) | 10.00    | H-F    | 0 / 1811  | 0.10 (1)      |          |            |       |          |        |        |
| L-K    | 0 / 5491      | -18.5    | -18.5      | 0.34 (1) | 10.00    | A-L    | 0 / 8059  | 0.45 (1)      |          |            |       |          |        |        |
| K-J    | 0 / 2498      | -18.5    | -18.5      | 0.11 (1) | 10.00    |        |           |               |          |            |       |          |        |        |
| J-I    | 0 / 1203      | -18.5    | -18.5      | 0.05 (1) | 10.00    |        |           |               |          |            |       |          |        |        |
| I-H    | 0 / 1203      | -18.5    | -18.5      | 0.05 (1) | 10.00    |        |           |               |          |            |       |          |        |        |
| H-G    | 0 / 0         | -18.5    | -18.5      | 0.01 (4) | 10.00    |        |           |               |          |            |       |          |        |        |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1   | MAX   | MAX | FACE | DIR |
|----|---------|-------|-------|-----|------|-----|
| L  | 1-11-12 | -6169 | -6169 | -   | BACK | VER |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |        |        |     |
|------------|--------|--------|-----|
| TOP CH.    | LL     | = 29.0 | PSF |
|            | DL     | = 8.0  | PSF |
| BOT CH.    | LL     | = 0.0  | PSF |
|            | DL     | = 7.4  | PSF |
| TOTAL LOAD | = 42.4 | PSF    |     |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2015, OBC 2012
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/980 (0.70")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
ALLOWABLE DEFL.(TL) = L/980 (0.70")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.28/1.00 (F-G-1), BC=0.34/1.00 (K-L-1), WS=0.80/1.00 (C-J-1), SS=0.10/1.00 (L-M-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

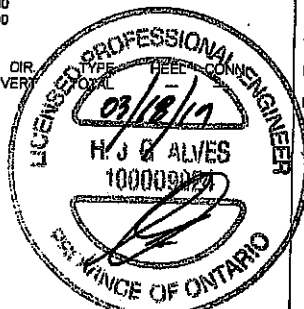
| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-----------------|-------------|---------------|
| MAX MIN         | MAX MIN     | MAX MIN       |
| MT20            | 618 354     | 1657 788      |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP=0.89 (L) (INPUT = 0.90)  
SI METAL=0.95 (L) (INPUT = 1.00)

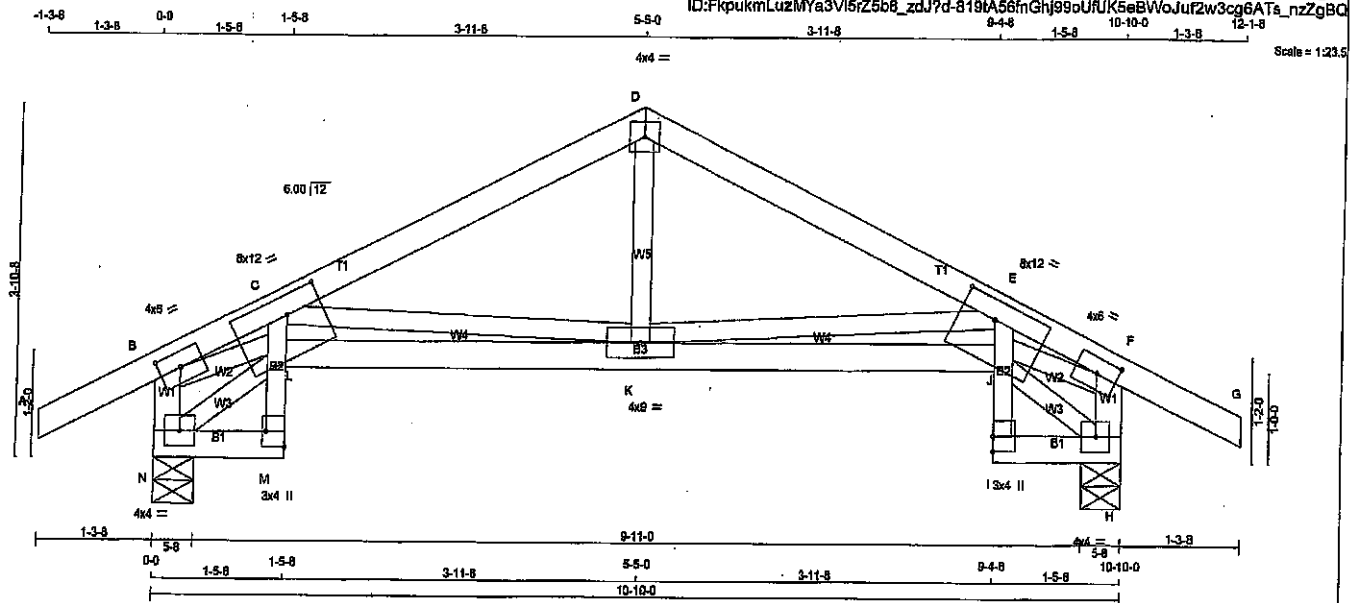
DRWG NO. TAM 7905437  
STRUCTURAL  
COMPONENT ONLY



|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T70S       | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 45 lb  
[M/F]

#### LUMBER

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

| CHORDS                | SIZE | LUMBER | DESCR. |
|-----------------------|------|--------|--------|
| A - D                 | 2x4  | DRY    | No.2   |
| D - G                 | 2x4  | DRY    | No.2   |
| N - B                 | 2x4  | DRY    | No.2   |
| H - F                 | 2x4  | DRY    | No.2   |
| N - M                 | 2x4  | DRY    | No.2   |
| M - C                 | 2x3  | DRY    | No.2   |
| L - J                 | 2x4  | DRY    | No.2   |
| I - E                 | 2x3  | DRY    | No.2   |
| I - H                 | 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  | TMVW-t    | MT20   | 4.0 | 6.0  | 2.00 | 3.00 |
| C  | E, J, L   |        |     |      |      |      |
| C  | TMBVWWW-t | MT20   | 8.0 | 12.0 | 2.50 | 4.75 |
| D  | TTW-p     | MT20   | 4.0 | 4.0  |      |      |
| E  | TMBVWWW-t | MT20   | 8.0 | 12.0 | 2.50 | 4.75 |
| F  | TMVW-t    | MT20   | 4.0 | 6.0  | 2.00 | 3.00 |
| H  | BMVW-t    | MT20   | 4.0 | 4.0  |      |      |
| I  | BMV-p     | MT20   | 3.0 | 4.0  |      |      |
| K  | BMVWWW-t  | MT20   | 4.0 | 9.0  |      |      |
| M  | BMV-p     | MT20   | 3.0 | 4.0  | 2.00 | Edge |
| N  | BMVW-t    | MT20   | 4.0 | 4.0  |      |      |

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

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
|    | VERT                    | HORZ                            | DOWN      | HORZ     |
| JT | 792                     | 0                               | 792       | 0        |
| N  | 792                     | 0                               | 792       | 0        |
| H  | 792                     | 0                               | 792       | 0        |

##### UNFACTORED REACTIONS

|    | 1ST LOASE | MAX/MIN. COMPONENT REACTIONS |       |           |       |         |
|----|-----------|------------------------------|-------|-----------|-------|---------|
|    | COMBINED  | SNOW                         | LIVE  | PERM.LIVE | WIND  | DEAD    |
| JT | 555       | 393 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 161 / 0 |
| N  | 555       | 393 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 161 / 0 |
| H  | 555       | 393 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 161 / 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 = 5.32 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC2) | MAX. FACTORED VERT. LOAD (LC3) | MAX. FACTORED VERT. LOAD (LC4) | MAX. FACTORED VERT. LOAD (LC5) | MAX. FACTORED VERT. LOAD (LC6) | MAX. FACTORED VERT. LOAD (LC7) | MAX. FACTORED VERT. LOAD (LC8) | MAX. FACTORED VERT. LOAD (LC9) | MAX. FACTORED VERT. LOAD (LC10) |
|-------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|
| FR-TO |                           |                           |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                 |
| A-B   | 0 / 31                    | -102.1                    | -102.1                         | 0.13 (1)                       | 10.00                          | 0 / 280                        | 0.06 (1)                       |                                |                                |                                |                                |                                 |
| B-C   | -1450 / 0                 | -102.1                    | -102.1                         | 0.12 (1)                       | 5.32                           | K-E                            | -715 / 0                       | 0.21 (1)                       |                                |                                |                                |                                 |
| C-D   | -753 / 0                  | -102.1                    | -102.1                         | 0.24 (1)                       | 6.25                           | C-K                            | -715 / 0                       | 0.21 (1)                       |                                |                                |                                |                                 |
| D-E   | -753 / 0                  | -102.1                    | -102.1                         | 0.24 (1)                       | 6.25                           | N-L                            | -60 / 0                        | 0.01 (1)                       |                                |                                |                                |                                 |
| E-F   | -1450 / 0                 | -102.1                    | -102.1                         | 0.12 (1)                       | 5.32                           | B-L                            | 0 / 1293                       | 0.28 (1)                       |                                |                                |                                |                                 |
| F-G   | 0 / 31                    | -102.1                    | -102.1                         | 0.13 (1)                       | 10.00                          | J-H                            | -80 / 0                        | 0.01 (1)                       |                                |                                |                                |                                 |
| N-B   | -744 / 0                  | 0.0                       | 0.0                            | 0.08 (1)                       | 7.81                           | J-F                            | 0 / 1293                       | 0.28 (1)                       |                                |                                |                                |                                 |
| H-F   | -744 / 0                  | 0.0                       | 0.0                            | 0.08 (1)                       | 7.81                           |                                |                                |                                |                                |                                |                                |                                 |
| N-M   | 0 / 48                    | -18.5                     | -18.5                          | 0.01 (4)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| M-L   | 0 / 14                    | 0.0                       | 0.0                            | 0.13 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| L-C   | 0 / 140                   | 0.0                       | 0.0                            | 0.16 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| L-K   | 0 / 1376                  | -18.5                     | -18.5                          | 0.27 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| K-J   | 0 / 1376                  | -18.5                     | -18.5                          | 0.27 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| I-J   | 0 / 14                    | 0.0                       | 0.0                            | 0.13 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| J-E   | 0 / 140                   | 0.0                       | 0.0                            | 0.16 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| I-H   | 0 / 48                    | -18.5                     | -18.5                          | 0.01 (4)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, OBC 2012  
- CSA 088-08, CSA 088-14  
- TPIC 2011, TPIC 2014

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSL TC=0.24/1.00 (C-D:1), EC=0.27/1.00 (K-L:1),  
WB=0.28/1.00 (B-L:1), GS=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

AUTOSOLVE HEELS OFF

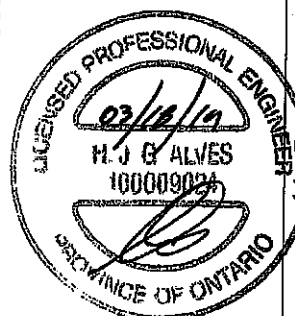
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JS GRIP= 0.64 (C) (INPUT = 0.90)  
JS METAL= 0.39 (B) (INPUT = 1.00)

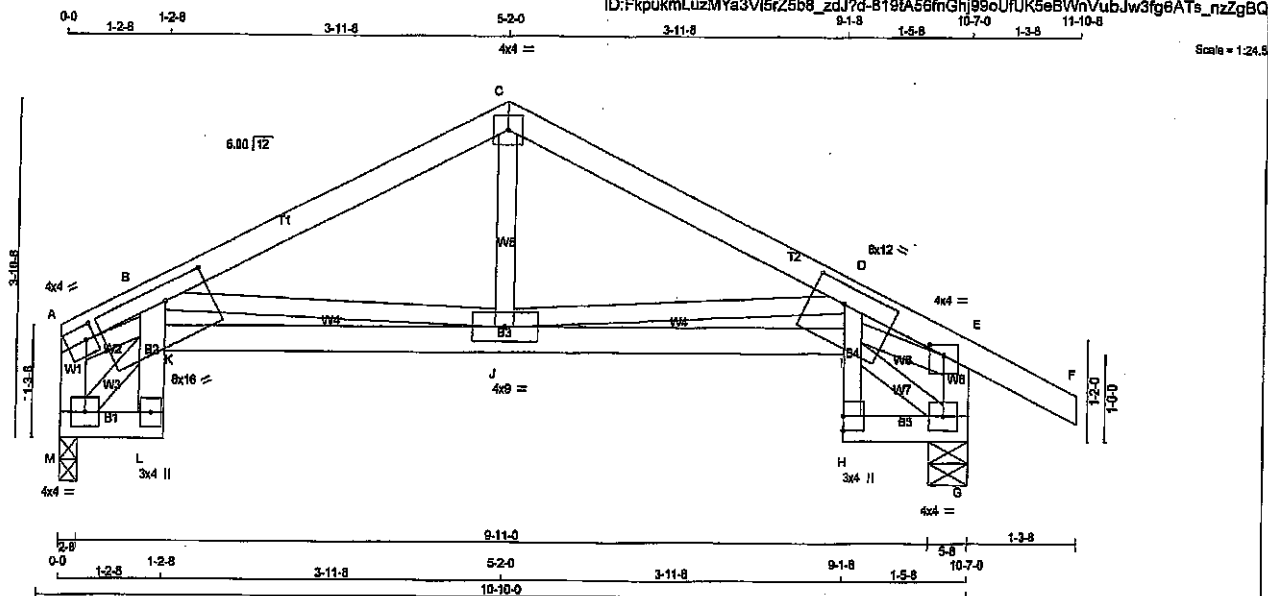


DWG NO. TAM 77905438  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T70SA      | 1        | 1   | TRUSS DESC. |                  |          |

Tamareck Roof Truss, Burlington

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TOTAL WEIGHT = 43 lb

#### LUMBER

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

##### CHORDS

##### SIZE

##### DRY

##### NO.2

##### SPF

##### NO.2

##### SPF

##### NO.2

##### SPF

##### NO.2

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##### NO.2

##### SPF

##### NO.2

##### SPF

ALL WEBS 2x3 DRY SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE      | PLATES | W   | LEN  | Y    | X    |
|----|-----------|--------|-----|------|------|------|
| A  | TMVW-4    | MT20   | 4.0 | 4.0  | 2.00 | 1.25 |
| B  | D, I, K   |        |     |      |      |      |
| C  | TTW-p     | MT20   | 4.0 | 4.0  |      |      |
| D  | TMBVWWW-1 | MT20   | 8.0 | 12.0 | 2.50 | 4.75 |
| E  | TMVW-p    | MT20   | 4.0 | 4.0  | 1.50 | 2.00 |
| G  | BMVW1-1   | MT20   | 4.0 | 4.0  |      |      |
| H  | BMV-p     | MT20   | 3.0 | 4.0  |      |      |
| J  | BMVWWW-1  | MT20   | 4.0 | 9.0  |      |      |
| K  | TMBVWWW-1 | MT20   | 8.0 | 16.0 | 2.25 | 6.00 |
| L  | BMV-p     | MT20   | 3.0 | 4.0  |      |      |
| M  | BMVW1-1   | 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 | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ      |
| M  | 629                     | 0                               | 629       | 0         |
| G  | 786                     | 0                               | 786       | 0         |

#### UNFACTORED REACTIONS

| 1ST LCASE | MAX/MIN COMPONENT REACTIONS |         |       |           |       |         |       |
|-----------|-----------------------------|---------|-------|-----------|-------|---------|-------|
| JT        | COMBINED                    | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| M         | 443                         | 302 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 141 / 0 | 0 / 0 |
| G         | 550                         | 391 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 159 / 0 | 0 / 0 |

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

#### BRACING

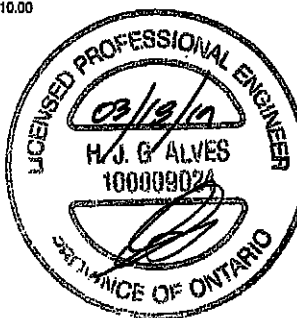
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.28 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.60 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.     | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LC1 MAX (LC) | MAX. UNBRACED LENGTH (FR-TO) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. LC1 MAX (LC) |
|--------|-----------|---------------------------|---------------------------|-------------------|------------------------------|-------|---------------------------|-------------------|
| FR-TO  |           |                           |                           |                   |                              | FR-TO |                           |                   |
| A-B    | -5 / 15   | -102.1                    | -102.1                    | 0.05 (1)          | 10.00                        | J-C   | 0 / 257                   | 0.06 (1)          |
| B-C    | -738 / 0  | -102.1                    | -102.1                    | 0.30 (1)          | 6.25                         | J-D   | -714 / 0                  | 0.21 (1)          |
| C-D    | -738 / 0  | -102.1                    | -102.1                    | 0.28 (1)          | 6.25                         | B-J   | -601 / 0                  | 0.18 (1)          |
| D-E    | -1435 / 0 | -102.1                    | -102.1                    | 0.15 (1)          | 5.28                         | M-B   | -726 / 0                  | 0.10 (1)          |
| E-F    | 0 / 31    | -102.1                    | -102.1                    | 0.13 (1)          | 10.00                        | I-G   | -59 / 0                   | 0.01 (1)          |
| M-A    | -19 / 0   | 0.0                       | 0.0                       | 0.00 (4)          | 7.81                         | I-E   | 0 / 1280                  | 0.28 (1)          |
| G-E    | -738 / 0  | 0.0                       | 0.0                       | 0.07 (1)          | 7.81                         |       |                           |                   |
| M-L    | 0 / 405   | -18.5                     | -18.5                     | 0.07 (1)          | 10.00                        |       |                           |                   |
| L-K    | 0 / 11    | 0.0                       | 0.0                       | 0.55 (1)          | 10.00                        |       |                           |                   |
| K-B    | 0 / 152   | 0.0                       | 0.0                       | 0.58 (1)          | 10.00                        |       |                           |                   |
| K-J    | 0 / 1252  | -18.5                     | -18.5                     | 0.25 (1)          | 10.00                        |       |                           |                   |
| J-I    | 0 / 1362  | -18.5                     | -18.5                     | 0.27 (1)          | 10.00                        |       |                           |                   |
| H-I    | 0 / 14    | 0.0                       | 0.0                       | 0.13 (1)          | 10.00                        |       |                           |                   |
| I-D    | 0 / 139   | 0.0                       | 0.0                       | 0.16 (1)          | 10.00                        |       |                           |                   |
| H-G    | 0 / 48    | -18.5                     | -18.5                     | 0.01 (4)          | 10.00                        |       |                           |                   |



#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|                       |               |
|-----------------------|---------------|
| TOP CH.               | LL = 29.0 PSF |
| DL = 6.0 PSF          |               |
| BOT CH.               | LL = 0.0 PSF  |
| DL = 7.4 PSF          |               |
| TOTAL LOAD = 42.4 PSF |               |

SPACING = 24.0 IN. O.C.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, OBC 2012
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

#### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.35")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
ALLOWABLE DEFL.(TL) = L/360 (0.35")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.30/1.00 (B-C:1), BC=0.58/1.00 (B-K:1),  
WB=0.29/1.00 (E-1:1), SS=0.65/1.00 (B-K:1)

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

COMPANION LIVE LOAD FACTOR = 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            | 618 354     | 1887 788      |

PLATE PLACEMENT TOL. = 0.250 inches

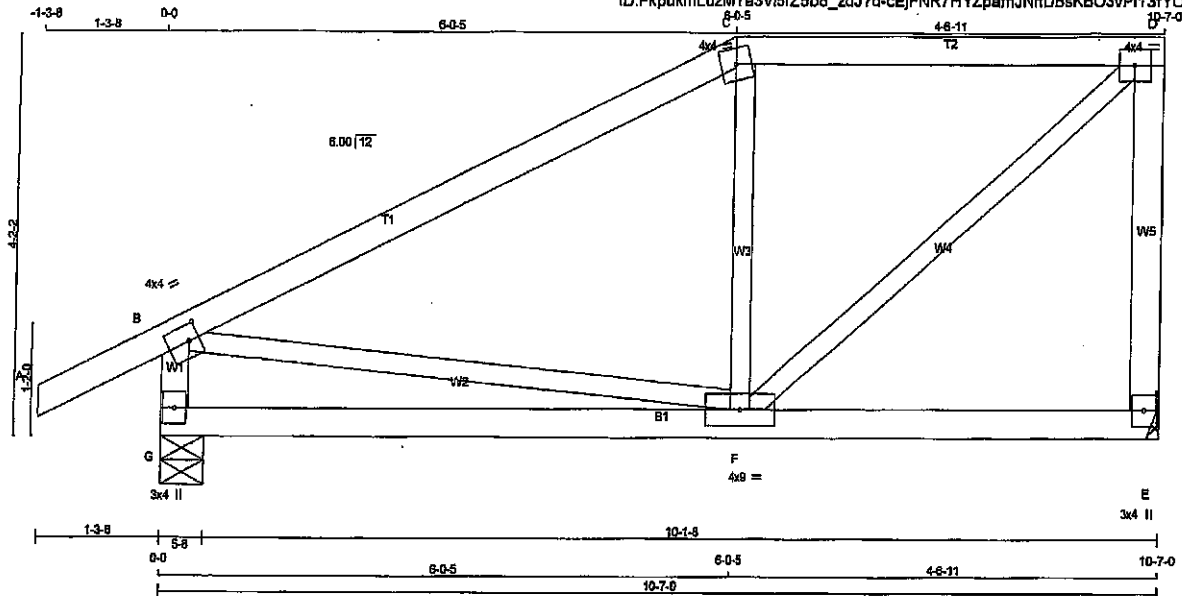
PLATE ROTATION TOL. = 5.0 Deg.

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

DRWG NO. TAM 77905439  
STRUCTURAL  
COMPONENT ONLY

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>401794</b>       | TRUSS NAME<br><b>T71</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                          |          |

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Scale = 1:22.5

TOTAL WEIGHT = 44 lb (MIF)

| LUMBER            |         |        |        |
|-------------------|---------|--------|--------|
| N. L. G. A. RULES | SIZE    | LUMBER | DESCR. |
| CHORDS            |         |        |        |
| A - C             | 2x4 DRY | No.2   | SPF    |
| C - D             | 2x4 DRY | No.2   | SPF    |
| E - D             | 2x4 DRY | No.2   | SPF    |
| G - B             | 2x4 DRY | No.2   | SPF    |
| G - E             | 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-1  | MT20   | 4.0 | 4.0 | 2.00 1.25 |
| C                           | TTW-m   | MT20   | 4.0 | 4.0 |           |
| D                           | TMVW-1  | MT20   | 4.0 | 4.0 |           |
| E                           | BMV1+p  | MT20   | 3.0 | 4.0 |           |
| F                           | BMVWV-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**

| FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG |        | REQD BRG   |       |
|-------------------------|------|---------------------------------|------|-----------|--------|------------|-------|
| JT                      | VERT | HORZ                            | DOWN | HORZ      | UPLIFT | IN-SX      | IN-SX |
| E                       | 638  | 0                               | 638  | 0         | 0      | MECHANICAL |       |
| G                       | 777  | 0                               | 777  | 0         | 0      | 5-8        | 5-8   |

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

**UNFACTORED REACTIONS**

| 1ST CASE |          | MAX/MIN COMPONENT REACTIONS |       |           |       |         |       |
|----------|----------|-----------------------------|-------|-----------|-------|---------|-------|
| JT       | COMBINED | SNOW                        | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| E        | 449      | 307 / 0                     | 0 / 0 | 0 / 0     | 0 / 0 | 142 / 0 | 0 / 0 |
| G        | 544      | 386 / 0                     | 0 / 0 | 0 / 0     | 0 / 0 | 158 / 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 = 8.25 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED         |              | WEBS     |             | FACTORED |          |
|--------|-------------|------------------|--------------|----------|-------------|----------|----------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX (LC) | MEMB.    | FORCE (LBS) | MAX (LC) | LC1 (LC) |
| FR-TO  |             | FROM             | TO           | FR-TO    |             |          |          |
| A-B    | 0 / 31      | -102.1           | -102.1       | 0.13 (1) | 10.00       | F-C      | -318 / 0 |
| B-C    | -495 / 0    | -102.1           | -102.1       | 0.48 (1) | 6.25        | F-D      | 0 / 572  |
| C-D    | -428 / 0    | -102.1           | -102.1       | 0.27 (1) | 8.25        | B-F      | 0 / 447  |
| E-D    | -612 / 0    | 0.0              | 0.0          | 0.17 (1) | 7.81        |          |          |
| G-B    | -729 / 0    | 0.0              | 0.0          | 0.07 (1) | 7.81        |          |          |
| G-F    | 0 / 0       | -18.5            | -18.5        | 0.18 (4) | 10.00       |          |          |
| F-E    | 0 / 0       | -18.5            | -18.5        | 0.18 (4) | 10.00       |          |          |

**DESIGN CRITERIA**

SPECIFIED LOADS:  
 TOP CH. LL = 28.0 PSF  
 DL = 8.0 PSF  
 BOT CH. LL = 0.0 PSF  
 DL = 7.4 PSF  
 TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF NBCC 2010, CBC 2012  
 - CSA 086-09, CSA 086-14  
 - TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 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 (0.05")

CSI: TC=0.48/1.00 (B-C:1), BC=0.16/1.00 (E-F:4), WB=0.13/1.00 (D-F:1), SSI=0.21/1.00 (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

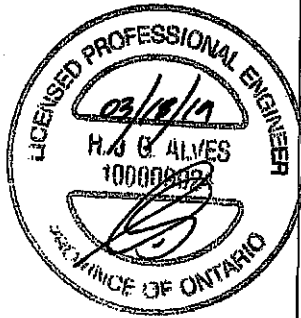
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.82 (B) (INPUT = 0.90)  
 JSI METAL= 0.26 (B) (INPUT = 1.00)

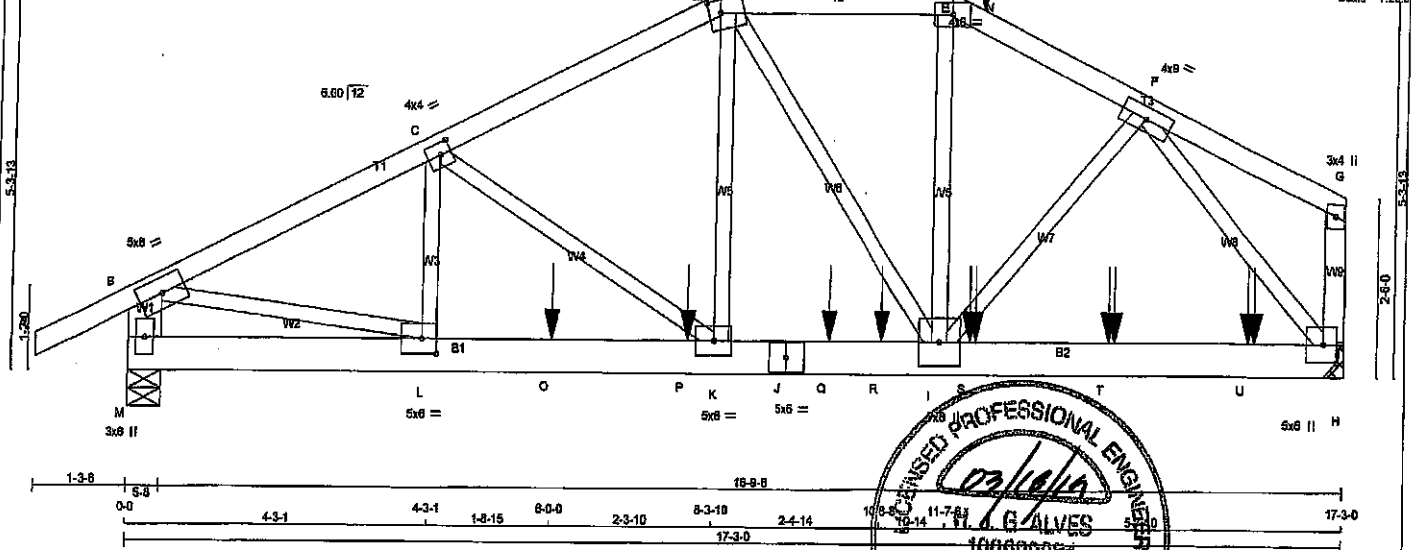


DRWG NO. TAM 11907440  
 STRUCTURAL  
 COMPONENT ONLY

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
|----------|------------|----------|-----|------------------|----------|
| 401794   | T72        | 1        | 3   | GREEN PARK HOMES |          |

Tamarack Roof Truss, Burlington

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

DRY: SEASONED LUMBER.  
DESIGN CONSISTS OF 3 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF)   |
|------------------------------------------|----------------------|-------------|
| TOP CHORDS : (0.122'X3') SPIRAL NAILS    |                      |             |
| A - D 1                                  | 12                   | TOP         |
| D - E 1                                  | 12                   | SIDE(91.5)  |
| E - G 1                                  | 12                   | SIDE(91.5)  |
| H - G 1                                  | 12                   | TOP         |
| M - B 2                                  | 12                   | TOP         |
| BOTTOM CHORDS : (0.122'X3') SPIRAL NAILS |                      |             |
| M - J 2                                  | 7                    | SIDE(760.8) |
| J - H 2                                  | 11                   | SIDE(493.2) |
| WEBS : (0.122'X3') SPIRAL NAILS          |                      |             |
| 2x3 1                                    | 6                    |             |

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.  
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) | W    | LEN | Y   | X         |
|-----------------------------|------|-----|-----|-----------|
| JT TYPE                     |      |     |     |           |
| B TMVW-t                    | MT20 | 5.0 | 8.0 |           |
| C TMVW-t                    | MT20 | 4.0 | 4.0 | 2.00 1.75 |
| D TTWW-m                    | MT20 | 5.0 | 6.0 | 2.25 2.00 |
| E TTW-t                     | MT20 | 4.0 | 6.0 |           |
| F TMVW-t                    | MT20 | 4.0 | 9.0 |           |
| G TMV-t                     | MT20 | 3.0 | 4.0 |           |
| H BMVW1+p                   | MT20 | 5.0 | 6.0 | 3.00 2.25 |
| I BMVW-t                    | MT20 | 7.0 | 8.0 |           |
| J BS-t                      | MT20 | 5.0 | 6.0 |           |
| K BMVW-t                    | MT20 | 5.0 | 6.0 |           |
| L BMVW-t                    | MT20 | 5.0 | 6.0 | 2.50 2.50 |
| M BMV1+p                    | MT20 | 3.0 | 6.0 |           |

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG  | REQRD BRG |
|----------|-------------------------|---------------------------------|------------|-----------|
| JT       | VERT                    | DOWN                            | IN-SX      | IN-SX     |
| M        | 4422 0                  | 4422 0                          | 5-8        | 5-8       |
| H        | 6187 0                  | 6187 0                          | MECHANICAL |           |

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  |
| M                    | 3104      | 2170 / 0 0 / 0 0 / 0 934 / 0 0 / 0  |
| H                    | 4342      | 3042 / 0 0 / 0 0 / 0 1300 / 0 0 / 0 |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.44 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING  
TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS1 (LC) | MAX. UNBRAC LENGTH (FT) | WEBS  | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |
|--------|---------------------------|---------------------------|---------------|-------------------------|-------|---------------------------|---------------|
| FR-TO  |                           | FROM TO                   |               |                         | FR-TO |                           |               |
| A-B    | 0 / 31                    | -102.1 -102.1             | 0.04 (1)      | 10.00                   | L-C   | 0 / 132                   | 0.01 (4)      |
| B-C    | -8779 / 0                 | -102.1 -102.1             | 0.15 (1)      | 4.44                    | C-K   | -644 / 0                  | 0.09 (1)      |
| C-D    | -8223 / 0                 | -102.1 -102.1             | 0.15 (1)      | 4.44                    | K-D   | 0 / 2894                  | 0.20 (1)      |
| D-E    | -5442 / 0                 | -102.1 -102.1             | 0.10 (1)      | 4.50                    | D-I   | -288 / 0                  | 0.08 (1)      |
| E-N    | -6039 / 0                 | -102.1 -102.1             | 0.08 (1)      | 4.71                    | I-E   | 0 / 2046                  | 0.15 (1)      |
| N-F    | -6039 / 0                 | -102.1 -102.1             | 0.08 (1)      | 4.71                    | F-F   | 0 / 2380                  | 0.18 (1)      |
| F-G    | 0 / 5                     | -102.1 -102.1             | 0.04 (1)      | 10.00                   | B-L   | 0 / 6178                  | 0.46 (1)      |
| M-B    | -4468 / 0                 | 0.0 0.0                   | 0.10 (1)      | 7.81                    | F-H   | -8221 / 0                 | 0.65 (1)      |
| H-G    | -133 / 0                  | 0.0 0.0                   | 0.01 (1)      | 7.81                    |       |                           |               |
| M-L    | 0 / 0                     | -18.5 -18.5               | 0.08 (1)      | 10.00                   |       |                           |               |
| L-O    | 0 / 6078                  | -18.5 -18.5               | 0.59 (1)      | 10.00                   |       |                           |               |
| O-P    | 0 / 6078                  | -18.5 -18.5               | 0.59 (1)      | 10.00                   |       |                           |               |
| P-K    | 0 / 6078                  | -18.5 -18.5               | 0.59 (1)      | 10.00                   |       |                           |               |
| K-J    | 0 / 5805                  | -18.5 -18.5               | 0.59 (1)      | 10.00                   |       |                           |               |
| J-Q    | 0 / 5805                  | -18.5 -18.5               | 0.59 (1)      | 10.00                   |       |                           |               |
| Q-R    | 0 / 5805                  | -18.5 -18.5               | 0.59 (1)      | 10.00                   |       |                           |               |
| R-I    | 0 / 5805                  | -18.5 -18.5               | 0.59 (1)      | 10.00                   |       |                           |               |
| I-S    | 0 / 3893                  | -18.5 -18.5               | 0.53 (1)      | 10.00                   |       |                           |               |
| S-T    | 0 / 3893                  | -18.5 -18.5               | 0.53 (1)      | 10.00                   |       |                           |               |
| T-U    | 0 / 3893                  | -18.5 -18.5               | 0.53 (1)      | 10.00                   |       |                           |               |
| U-H    | 0 / 3893                  | -18.5 -18.5               | 0.53 (1)      | 10.00                   |       |                           |               |

| FACTORED CONCENTRATED LOADS (LBS) | JT      | LOC.  | LC1   | MAX. | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|-----------------------------------|---------|-------|-------|------|------|-------|------|-------|------|-------|
| JT                                | 11-7-8  | -45   | -50   |      |      | FRONT | VERT | DEAD  |      |       |
| E                                 | 11-7-6  | -270  | -270  |      |      | FRONT | VERT | SNOW  |      |       |
| D                                 | 12-0-4  | -62   | -62   |      |      | FRONT | VERT | TOTAL |      |       |
| C                                 | 6-0-0   | -1797 | -1797 |      |      | BACK  | VERT | TOTAL |      |       |
| B                                 | 7-11-4  | -1120 | -1120 |      |      | BACK  | VERT | TOTAL |      |       |
| A                                 | 4-10-4  | -1120 | -1120 |      |      | BACK  | VERT | TOTAL |      |       |
| F                                 | 0-0-8   | -572  | -572  |      |      | FRONT | VERT | TOTAL |      |       |
| S                                 | -11-4   | -1120 | -1120 |      |      | BACK  | VERT | TOTAL |      |       |
| T                                 | 13-11-4 | -15   | -15   |      |      | FRONT | VERT | TOTAL |      |       |
| U                                 | 14-0-4  | -15   | -15   |      |      | BACK  | VERT | TOTAL |      |       |

DESIGN CRITERIA

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

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= 1/360 (0.57")  
CALCULATED VERT. DEFL.(LL) = 1/999 (0.07")  
ALLOWABLE DEFL.(TL)= 1/360 (0.57")  
CALCULATED VERT. DEFL.(TL) = 1/999 (0.12")

CSI: TC=0.15/1.00 (B-C-I), BC=0.59/1.00 (I-K-I), WB=0.65/1.00 (F-H-I), SSI=0.48/1.00 (H-I-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1867 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (L) (INPUT = 0.90)  
JSI METAL= 0.51 (L) (INPUT = 1.00)

CONTINUED ON PAGE 2

RECEIVED  
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TOWN OF CALEDON  
BUILDING SECTION

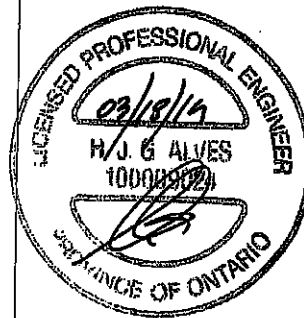
DRWG NO. TAM 710741  
STRUCTURAL  
COMPONENT ONLY

|                    |                   |               |          |                               |             |          |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|
| JOB NAME<br>401794 | TRUSS NAME<br>T72 | QUANTITY<br>1 | PLY<br>3 | JOB DESC.<br>GREEN PARK HOMES | TRUSS DESC. | DRWG NO. |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

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| FACTORED CONCENTRATED LOADS (LBS) |         |       |       |      |       |      |       |      |       |
|-----------------------------------|---------|-------|-------|------|-------|------|-------|------|-------|
| JT                                | LOC.    | LC1   | MAX-  | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
| U                                 | 15-11-4 | -1120 | -1120 | —    | BACK  | VERT | TOTAL | —    | —     |
| U                                 | 16-0-4  | -15   | -15   | —    | FRONT | VERT | TOTAL | —    | —     |

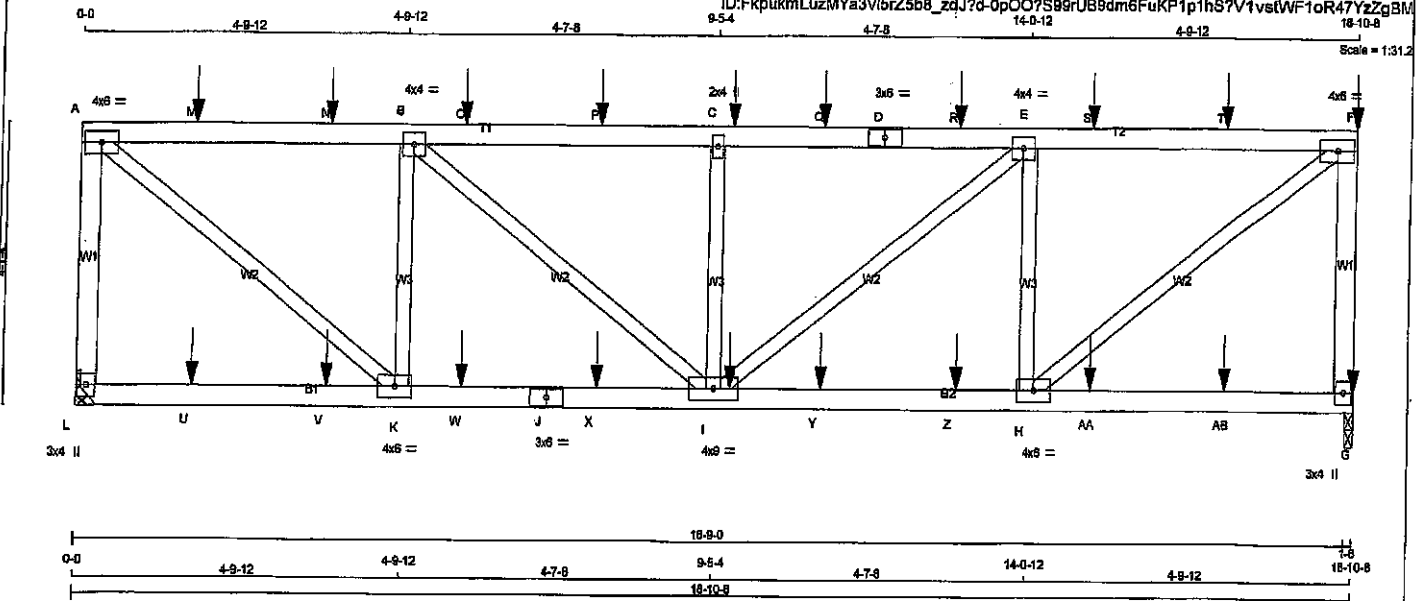


DWG NO. TAM 7705441  
STRUCTURAL  
COMPONENT ONLY  
3/2

|                                 |            |          |     |             |                  |          |
|---------------------------------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794                          | T73        | 1        | 2   | TRUSS DESC. |                  |          |
| Tamarack Roof Truss, Burlington |            |          |     |             |                  |          |

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Scale = 1:312

#### LUMBER

N. L. G. A. RULES

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

L-A 1 12 TOP SIDE(0.0)

A-D 1 12 TOP SIDE(0.0)

D-F 1 12 TOP SIDE(0.0)

F-G 1 12 TOP SIDE(0.0)

BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS

L-J 1 12 SIDE(0.0)

J-G 1 12 SIDE(0.0)

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 TMWW-1 MT20 4.0 8.0

B TMWW-1 MT20 4.0 4.0

C TMWW-1 MT20 2.0 4.0

D TS-1 MT20 3.0 6.0

E TMWW-1 MT20 4.0 4.0

F TMWW-1 MT20 4.0 6.0

G BMV1-p MT20 3.0 4.0

H BMWW-1 MT20 4.0 6.0

I BMWW-1 MT20 4.0 9.0

J BS-1 MT20 3.0 6.0

K BMWW-1 MT20 4.0 6.0

L BMV1-p MT20 3.0 4.0

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ      |
| L  | 1815                    | 0                               | 1815      | 0         |
| G  | 1899                    | 0                               | 1899      | 0         |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT L. MINIMUM BEARING LENGTH AT JOINT L = 3.8.

##### UNFACTORED REACTIONS

|    | 1ST LOASE | MAX/MIN. COMPONENT REACTIONS |
|----|-----------|------------------------------|
| JT | COMBINED  | SNOW                         |
| L  | 1279      | 865 / 0                      |
| G  | 1409      | 952 / 0                      |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.38 FT.

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

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

##### LOADING

TOTAL LOAD CASES: (4)

##### CHORDS

| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS1 (LC) | MAX. UNBRAC LENGTH | WEBS | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |
|-------|---------------------------|---------------------------|---------------|--------------------|------|---------------------------|---------------|
|-------|---------------------------|---------------------------|---------------|--------------------|------|---------------------------|---------------|

FR-TO L-A -1780 / 0 0.0 0.0 0.24 (1) 7.81

A-M -1878 / 0 -102.1 -102.1 0.32 (1) 5.94

M-N -1878 / 0 -102.1 -102.1 0.32 (1) 5.94

N-B -1878 / 0 -102.1 -102.1 0.32 (1) 5.94

B-O -2404 / 0 -102.1 -102.1 0.33 (1) 5.39

O-P -2404 / 0 -102.1 -102.1 0.33 (1) 5.39

P-C -2404 / 0 -102.1 -102.1 0.33 (1) 5.39

C-Q -2404 / 0 -102.1 -102.1 0.33 (1) 5.39

Q-D -2404 / 0 -102.1 -102.1 0.33 (1) 5.39

D-R -2404 / 0 -102.1 -102.1 0.33 (1) 5.39

R-E -2404 / 0 -102.1 -102.1 0.33 (1) 5.39

E-S -1878 / 0 -102.1 -102.1 0.32 (1) 5.94

S-T -1878 / 0 -102.1 -102.1 0.32 (1) 5.94

T-F -1878 / 0 -102.1 -102.1 0.32 (1) 5.94

G-F -1913 / 0 0.0 0.0 0.25 (1) 7.81

L-U 0 / 0 -18.5 -18.5 0.09 (4) 10.00

U-V 0 / 0 -18.5 -18.5 0.09 (4) 10.00

V-K 0 / 0 -18.5 -18.5 0.09 (4) 10.00

K-W 0 / 1878 -18.5 -18.5 0.21 (1) 10.00

W-J 0 / 1878 -18.5 -18.5 0.21 (1) 10.00

J-X 0 / 1878 -18.5 -18.5 0.21 (1) 10.00

X-I 0 / 1878 -18.5 -18.5 0.21 (1) 10.00

I-Y 0 / 1878 -18.5 -18.5 0.21 (1) 10.00

Y-Z 0 / 1878 -18.5 -18.5 0.21 (1) 10.00

Z-H 0 / 1878 -18.5 -18.5 0.21 (1) 10.00

H-AA 0 / 0 -18.5 -18.5 0.09 (4) 10.00

AA-AB 0 / 0 -18.5 -18.5 0.09 (4) 10.00

AB-G 0 / 0 -18.5 -18.5 0.09 (4) 10.00

##### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC. | LC1 | MAX. | MAX+ | FACE | DIR. | TYPE | HEEL | CONN. |
|----|------|-----|------|------|------|------|------|------|-------|
|----|------|-----|------|------|------|------|------|------|-------|

C 9-8-4 -123 -123 -- BACK VERT TOTAL

F 18-10-8 -161 -161 -- BACK VERT TOTAL

G 18-10-8 -33 -33 -- BACK VERT TOTAL

I 9-8-4 -28 -28 -- BACK VERT TOTAL

TOTAL WEIGHT = 2 X 78 = 156 lb

#### DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018 ; OBC 2012

- CSA 086-09, CSA 066-14

- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.63")

CALCULATED VERT. DEFL.(LL) = L/599 (0.04")

ALLOWABLE DEFL.(TL) = L/360 (0.63")

CALCULATED VERT. DEFL.(TL) = L/599 (0.08")

CS1: TC=0.33/1.00 (C-E:1), BC=0.21/1.00 (I-K:1), WB=0.30/1.00 (A-K:1), SS=0.20/1.00 (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

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

M20 818 354 1667 786 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.75 (F) (INPUT = 0.90)

JSI METAL= 0.32 (J) (INPUT = 1.00)

DRWG NO. TAM 71905442

STRUCTURAL

COMPONENT ONLY

1/2

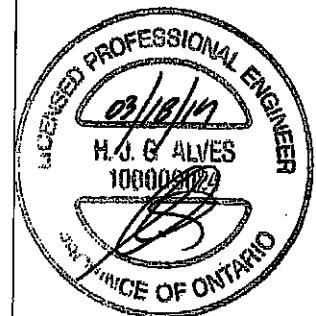
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|                                 |            |             |     |                  |          |
|---------------------------------|------------|-------------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.        | DRWG NO. |
| 401794                          | T73        | 1           | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                  |          |

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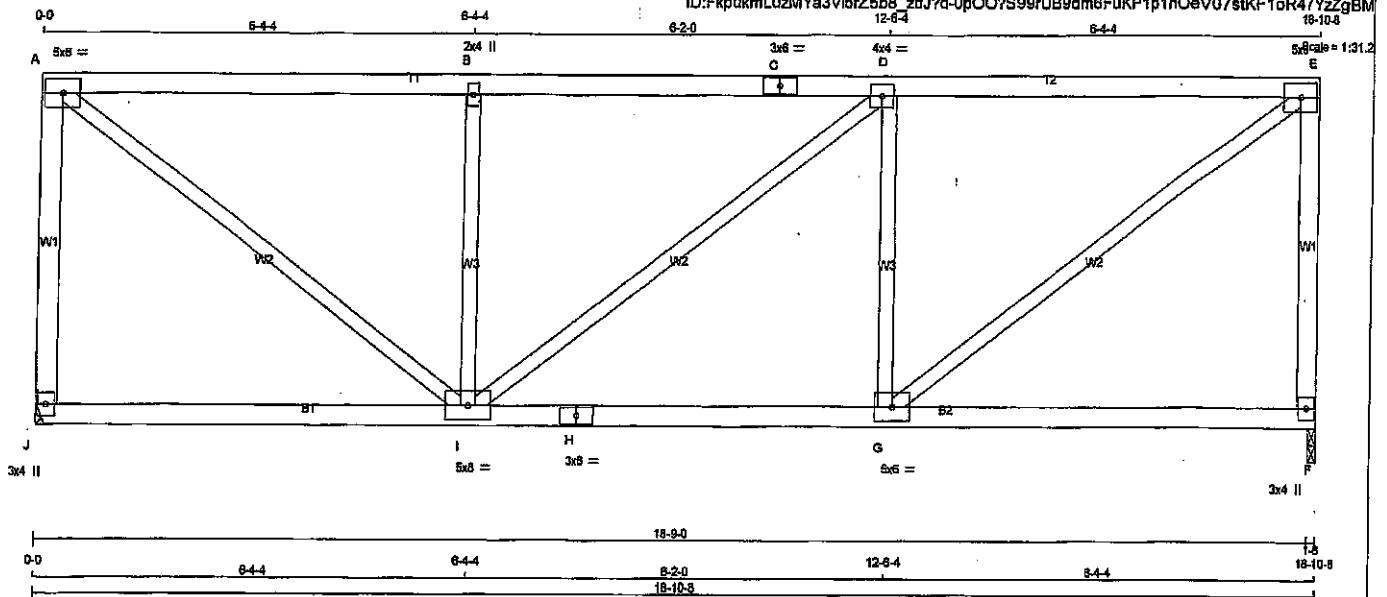
| FACTORED CONCENTRATED LOADS (LBS) |        |      |      |      |      |      |       |      |       |
|-----------------------------------|--------|------|------|------|------|------|-------|------|-------|
| JT                                | LOC.   | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
| M                                 | 1-8-4  | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | ---   |
| N                                 | 3-8-4  | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | ---   |
| O                                 | 5-8-4  | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | ---   |
| P                                 | 7-8-4  | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | ---   |
| Q                                 | 11-0-4 | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | ---   |
| R                                 | 13-0-4 | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | ---   |
| S                                 | 15-0-4 | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | ---   |
| T                                 | 17-0-4 | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | ---   |
| U                                 | 1-8-4  | -26  | -26  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| V                                 | 3-8-4  | -26  | -26  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| W                                 | 5-8-4  | -26  | -26  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| X                                 | 7-8-4  | -26  | -26  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| Y                                 | 11-0-4 | -26  | -26  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| Z                                 | 13-0-4 | -26  | -26  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| AA                                | 15-0-4 | -26  | -26  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| AB                                | 17-0-4 | -26  | -26  | ---  | BACK | VERT | TOTAL | ---  | ---   |



DWG NO. TAM 11905442  
STRUCTURAL  
COMPONENT ONLY

3/2

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

| <b>PLATES (table is in inches)</b> |          |        |     |     |   |   |
|------------------------------------|----------|--------|-----|-----|---|---|
| JT                                 | TYPE     | PLATES | W   | LEN | Y | X |
| A                                  | TMMW-t   | MT20   | 5.0 | 6.0 |   |   |
| B                                  | TMMW+w   | MT20   | 2.0 | 4.0 |   |   |
| C                                  | TS-t     | MT20   | 3.0 | 6.0 |   |   |
| D                                  | TMMWW-t  | MT20   | 4.0 | 4.0 |   |   |
| E                                  | TMMW-t   | MT20   | 5.0 | 6.0 |   |   |
| F                                  | BMWf+p   | MT20   | 3.0 | 4.0 |   |   |
| G                                  | BMWW-t   | MT20   | 5.0 | 6.0 |   |   |
| H                                  | BS-t     | MT20   | 3.0 | 6.0 |   |   |
| I                                  | BMWWWW-t | MT20   | 5.0 | 8.0 |   |   |
| J                                  | BMWf+p   | MT20   | 3.0 | 4.0 |   |   |

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

| BEARINGS |      | FACTORED<br>GROSS REACTION |      | MAXIMUM FACTORED<br>GROSS REACTION |        | INPUT<br>BRG | REQD<br>BRG |
|----------|------|----------------------------|------|------------------------------------|--------|--------------|-------------|
|          | VERT | HORZ                       | DOWN | HORZ                               | UPLIFT | IN-SX        | IN-SX       |
| JT       | 1138 | 0                          | 1138 | 0                                  | 0      | MECHANICAL   |             |
| F        | 1138 | 0                          | 1138 | 0                                  | 0      | 1-8          | 1-8         |

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

### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |       |            |       |         |       |
|-----------|----------|-------------------------------|-------|------------|-------|---------|-------|
| JT        | COMBINED | SNOW                          | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
| J         | 801      | 548 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 253 / 0 | 0 / 0 |
| F         | 801      | 548 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 253 / 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 = 5.12 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 |                           |                           |                       | WEBBS |                           |                       |          |
|--------|---------------------------|---------------------------|-----------------------|-------|---------------------------|-----------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. UNBRAC. CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRAC. CSI (LC) |          |
| FR-TO  |                           | FROM TO                   |                       | FR-TO |                           |                       |          |
| J-A    | -1089/0                   | 0.0                       | 0.0 0.48 (1)          | G-E   | 0 / 1370                  |                       | 0.31 (1) |
| A-B    | -1080/0                   | -102.1                    | -102.1 0.80 (1)       | A-I   | 0 / 1368                  |                       | 0.31 (1) |
| B-C    | -1080/0                   | -102.1                    | -102.1 0.80 (1)       | G-D   | -701/0                    |                       | 0.27 (1) |
| C-D    | -1080/0                   | -102.1                    | -102.1 0.80 (1)       | I-B   | -700/0                    |                       | 0.27 (1) |
| D-E    | -1082/0                   | -102.1                    | -102.1 0.81 (1)       | I-D   | -2/0                      |                       | 0.00 (1) |
| F-E    | -1099/0                   | 0.0                       | 0.0 0.48 (1)          |       |                           |                       |          |
| J-I    | 0/0                       | -18.5                     | -18.5 0.16 (4)        |       |                           |                       | 10.00    |
| I-H    | 0 / 1092                  | -18.5                     | -18.5 0.28 (1)        |       |                           |                       | 10.00    |
| H-G    | 0 / 1092                  | -18.5                     | -18.5 0.28 (1)        |       |                           |                       | 10.00    |
| G-F    | 0/0                       | -18.5                     | -18.5 0.16 (4)        |       |                           |                       | 10.00    |

## DESIGN CRITERIA

| SPECIFIED LOADS: |      |      |          |
|------------------|------|------|----------|
| TOP CH.          | LL = | 29.0 | PSF      |
|                  | DL = | 6.0  | PSF      |
| BOT CH.          | LL = | 0.0  | PSF      |
|                  | DL = | 7.4  | PSF      |
| TOTAL LOAD       |      | =    | 42.4 PSF |

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A  
SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL(LL)= L/360 (0.63")  
CALCULATED VERT. DEFL(LL) = L/999 (0.04")  
ALLOWABLE DEFL(TL)= L/360 (0.63")  
CALCULATED VERT. DEFL(TL) = L/999 (0.08")

CSI: TC=0.61/1.00 (D-E:1), BC=0.26/1.00 (G-I:1),  
WB=0.31/1.00 (E-G:1), SSI=0.30/1.00 (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.

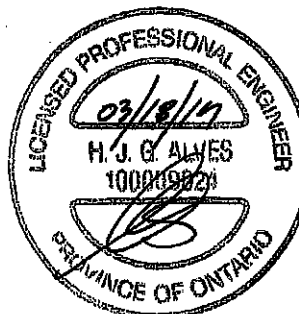
| NAIL VALUES |           |     |       |     |           |
|-------------|-----------|-----|-------|-----|-----------|
| PLATE       | GRIP(DRY) |     | SHEAR |     | SECTION   |
|             | (PSI)     |     | (PLI) |     | (PLI)     |
|             | MAX       | MIN | MAX   | MIN | MAX MIN   |
| MT20        | 818       | 354 | 1667  | 780 | 1987 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.72 (I) (INPUT = 0.90 )  
JSI METAL= 0.32 (H) (INPUT = 1.00 )

DWG NO. TAM 71705443  
STRUCTURAL  
COMPONENT ONLY



Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Mon Mar 18 15:46:49 2019 Page 1  
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DWG NO. TAM 71705444  
STRUCTURAL  
COMPONENT ONLY



Tamarack Roof Truss, Burlington



DWG NO. TAM 17905446  
STRUCTURAL  
COMPONENT ONLY

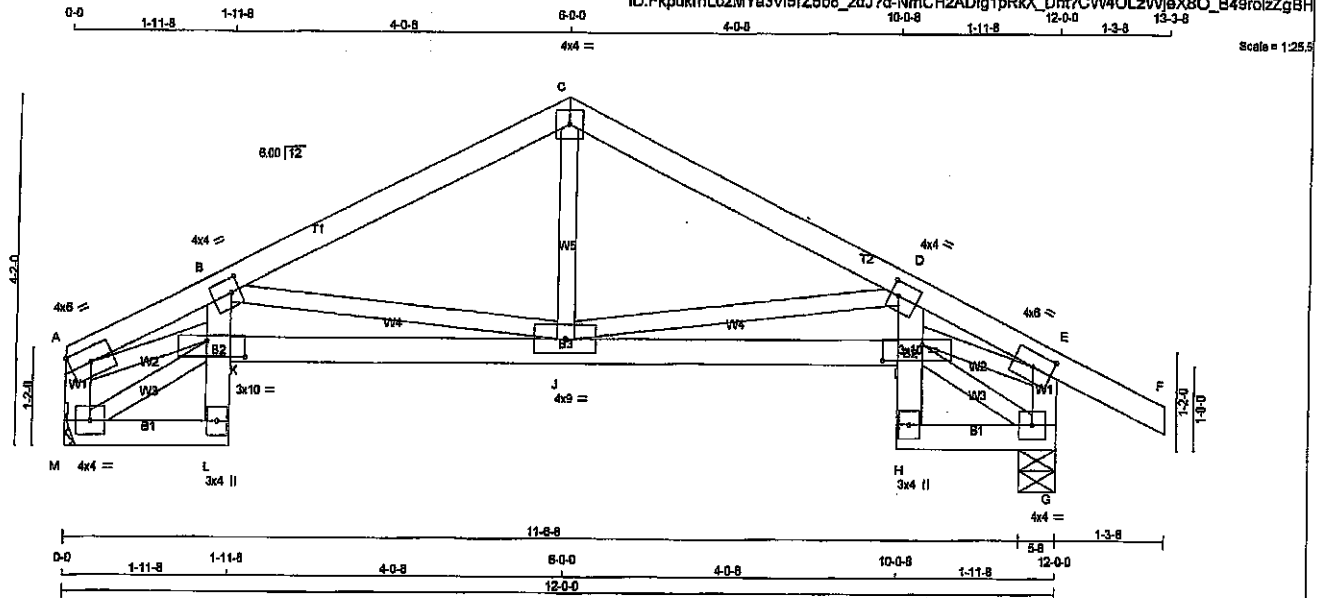
**RECEIVED**  
JUN 13 2019  
TOWN OF CALEDON  
BUILDING SECTION  
FILE NO \_\_\_\_\_



|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T79S       | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mittek Industries, Inc. Mon Mar 18 15:46:52 2019 Page 1  
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Scale = 1/25.5

TOTAL WEIGHT = 2 X 50 = 100 lb  
(M/F)

#### LUMBER

| N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|-------------------|--------|------|--------|--------|
| A - C             | 2x4    | DRY  | No.2   | SPF    |
| C - F             | 2x4    | DRY  | No.2   | SPF    |
| M - A             | 2x4    | DRY  | No.2   | SPF    |
| G - E             | 2x4    | DRY  | No.2   | SPF    |
| M - L             | 2x4    | DRY  | No.2   | SPF    |
| L - B             | 2x4    | DRY  | No.2   | SPF    |
| K - I             | 2x4    | DRY  | No.2   | SPF    |
| H - D             | 2x4    | DRY  | No.2   | SPF    |
| H - 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    |
|----|---------|--------|-----|------|------|------|
| A  | TMVW-t  | MT20   | 4.0 | 6.0  |      | Edge |
| B  | TMVW-t  | MT20   | 4.0 | 4.0  | 2.00 | 1.25 |
| C  | TTW-p   | MT20   | 4.0 | 4.0  |      |      |
| D  | TMVW-t  | MT20   | 4.0 | 4.0  | 2.00 | 1.25 |
| E  | TMVW-t  | MT20   | 4.0 | 6.0  | 2.00 | 3.00 |
| G  | BMVW1-t | MT20   | 4.0 | 4.0  |      |      |
| H  | BMV-p   | MT20   | 3.0 | 4.0  |      |      |
| I  | BMVWW-t | MT20   | 3.0 | 10.0 | 2.25 | 5.75 |
| J  | BMVWW-t | MT20   | 4.0 | 9.0  |      |      |
| K  | BMVWW-t | MT20   | 3.0 | 10.0 | 2.25 | 5.75 |
| L  | BMV-p   | MT20   | 3.0 | 4.0  |      |      |
| M  | 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 | REQD BRG   |
|----|-------------------------|------|---------------------------------|------|-----------|------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |            |
| M  | 716                     | 0    | 716                             | 0    | 0         | MECHANICAL |
| G  | 870                     | 0    | 870                             | 0    | 0         | 5-8        |

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

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX/MIN. COMPONENT REACTIONS |       |           |       |         |       |
|-----------|----------|------------------------------|-------|-----------|-------|---------|-------|
| JT        | COMBINED | SNOW                         | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| M         | 504      | 344 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 160 / 0 | 0 / 0 |
| G         | 610      | 432 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 178 / 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 = 5.18 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | MAX. FACTORED FORCE (LBS) | CHORDS     |        |               | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | WEBS     |
|-------|---------------------------|------------|--------|---------------|--------------------|-------|---------------------------|----------|
|       |                           | VERT. LOAD | LC1    | MAX. CSI (LC) |                    |       |                           |          |
| FR-TO |                           | FROM       | TO     |               | FR-TO              |       |                           |          |
| A-B   | -1559 / 0                 | -102.1     | -102.1 | 0.12 (1)      | 5.18               | J-C   | 0 / 371                   | 0.08 (1) |
| B-C   | -858 / 0                  | -102.1     | -102.1 | 0.24 (1)      | 6.25               | J-D   | -716 / 0                  | 0.22 (1) |
| C-D   | -855 / 0                  | -102.1     | -102.1 | 0.25 (1)      | 6.25               | B-J   | -815 / 0                  | 0.25 (1) |
| D-E   | -1484 / 0                 | -102.1     | -102.1 | 0.12 (1)      | 5.27               | M-K   | -125 / 0                  | 0.02 (1) |
| E-F   | 0 / 31                    | -102.1     | -102.1 | 0.13 (1)      | 10.00              | A-K   | 0 / 1419                  | 0.32 (1) |
| M-A   | -638 / 0                  | 0.0        | 0.0    | 0.06 (1)      | 7.81               | I-G   | -119 / 0                  | 0.02 (1) |
| G-E   | -785 / 0                  | 0.0        | 0.0    | 0.08 (1)      | 7.81               | I-E   | 0 / 1329                  | 0.30 (1) |
| M-L   | 0 / 110                   | -18.5      | -18.5  | 0.03 (1)      | 10.00              |       |                           |          |
| L-K   | 0 / 19                    | 0.0        | 0.0    | 0.15 (1)      | 10.00              |       |                           |          |
| K-B   | 0 / 97                    | 0.0        | 0.0    | 0.18 (1)      | 10.00              |       |                           |          |
| K-J   | 0 / 1559                  | -18.5      | -18.5  | 0.30 (1)      | 10.00              |       |                           |          |
| J-I   | 0 / 1482                  | -18.5      | -18.5  | 0.29 (1)      | 10.00              |       |                           |          |
| H-I   | 0 / 19                    | 0.0        | 0.0    | 0.15 (1)      | 10.00              |       |                           |          |
| I-D   | 0 / 92                    | 0.0        | 0.0    | 0.18 (1)      | 10.00              |       |                           |          |
| H-G   | 0 / 105                   | -18.5      | -18.5  | 0.03 (1)      | 10.00              |       |                           |          |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/G

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2010, OBC 2012  
- CSA D88-09, CSA 086-14  
- TPIC 2011, TPIC 2014

#### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.40")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL) = L/360 (0.40")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.25/1.00 (C-D:1), BC=0.30/1.00 (J-K:1),  
WB=0.32/1.00 (A-K:1), SS=0.16/1.00 (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 HEELS OFF

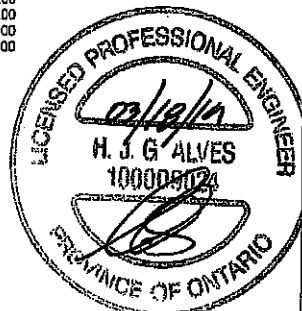
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

ISI GRIP= 0.88 (B) (INPUT = 0.80)  
ISI METAL= 0.44 (K) (INPUT = 1.00)



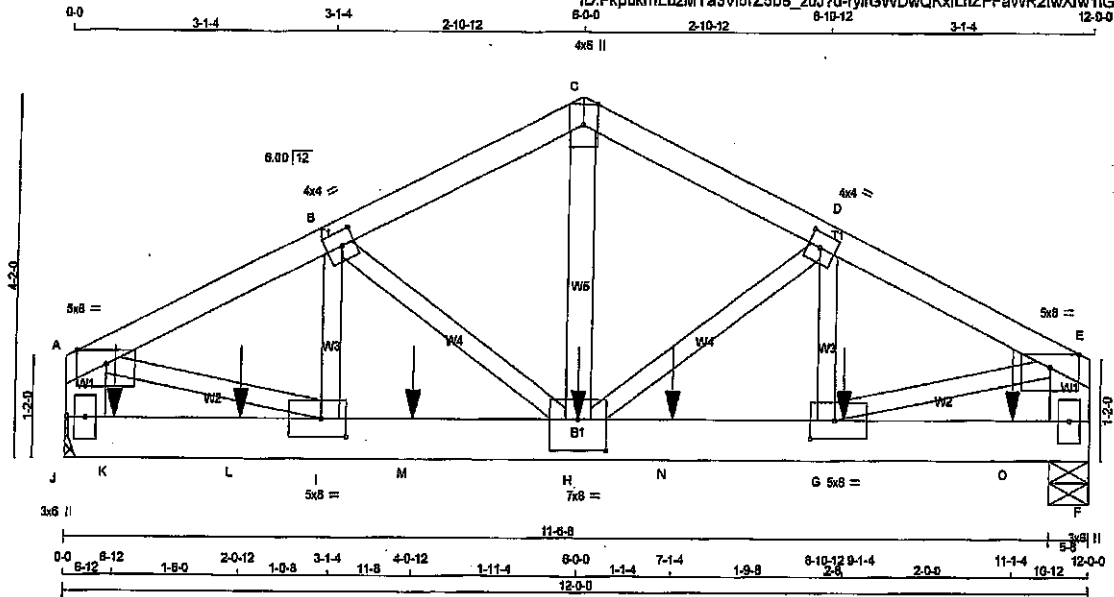
DWG NO. TAM 7905448  
STRUCTURAL  
CONSULTANT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T80        | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1/24.6

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

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF)   |
|------------------------------------------|----------------------|-------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |             |
| A-C 1                                    | 12                   | TOP         |
| C-E 1                                    | 12                   | TOP         |
| J-A 3                                    | 2                    | SIDE(83.0)  |
| F-E 3                                    | 2                    | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| J-F 2                                    | 12                   | SIDE(183.1) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| D-G 1                                    | 6                    | SIDE(15.1)  |
| 2x3 1                                    | 6                    |             |
| H-C 1                                    | 6                    | SIDE(272.9) |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| A  | TMVW-p | MT20   | 5.0 | 8.0 | Edge |      |
| B  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| C  | TTW+p  | MT20   | 4.0 | 6.0 | Edge |      |
| D  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| E  | TMVW-p | MT20   | 5.0 | 8.0 | Edge |      |
| F  | BMV1-p | MT20   | 3.0 | 6.0 |      |      |
| G  | BMVW-t | MT20   | 5.0 | 8.0 | 2.50 | 3.50 |
| H  | BMVW-t | MT20   | 7.0 | 8.0 | 4.25 | 4.00 |
| I  | BMVW-t | MT20   | 5.0 | 8.0 | 2.50 | 3.50 |
| J  | 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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQRD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|-----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |           |
| J  | 4740                    | 0    | 4740                            | 0    | 5-8       | 5-8       |
| F  | 3902                    | 0    | 3902                            | 0    | 5-8       | 5-8       |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT J. MINIMUM BEARING LENGTH AT JOINT J = 2-8.

#### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED | SNOW     | MAX./MIN. LIVE | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|--------------------|----------|----------------|-----------|-------|---------|-------|
| J  | 3326               | 2329 / 0 | 0 / 0          | 0 / 0     | 0 / 0 | 987 / 0 | 0 / 0 |
| F  | 2733               | 1943 / 0 | 0 / 0          | 0 / 0     | 0 / 0 | 791 / 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 = 4.14 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 LC1 MAX |          | MAX. UNBRACED LENGTH | FR-TO | WEBS  |                           |
|-------|---------------------------|-----------------------------|----------|----------------------|-------|-------|---------------------------|
|       |                           | PLF                         | CSI (LC) |                      |       | MEMB. | MAX. FACTORED FORCE (LBS) |
| A-B   | -5142 / 0                 | -102.1                      | -102.1   | 0.18 (1)             | 4.14  | H-C   | 0 / 3586                  |
| B-C   | -4321 / 0                 | -102.1                      | -102.1   | 0.14 (1)             | 4.49  | H-D   | -492 / 0                  |
| C-D   | -4322 / 0                 | -102.1                      | -102.1   | 0.13 (1)             | 4.50  | G-D   | 0 / 171                   |
| D-E   | -4741 / 0                 | -102.1                      | -102.1   | 0.16 (1)             | 4.30  | B-H   | -950 / 0                  |
| J-A   | -3800 / 0                 | 0.0                         | 0.0      | 0.13 (1)             | 7.40  | I-B   | 0 / 642                   |
| F-E   | -3328 / 0                 | 0.0                         | 0.0      | 0.12 (1)             | 7.62  | A-I   | 0 / 4742                  |
| J-K   | 0 / 0                     | -18.5                       | -18.5    | 0.27 (1)             | 10.00 | G-E   | 0 / 4375                  |
| K-L   | 0 / 0                     | -18.5                       | -18.5    | 0.27 (1)             | 10.00 |       |                           |
| L-I   | 0 / 0                     | -18.5                       | -18.5    | 0.27 (1)             | 10.00 |       |                           |
| I-M   | 0 / 4802                  | -18.5                       | -18.5    | 0.44 (1)             | 10.00 |       |                           |
| M-H   | 0 / 4802                  | -18.5                       | -18.5    | 0.44 (1)             | 10.00 |       |                           |
| H-N   | 0 / 4245                  | -18.5                       | -18.5    | 0.42 (1)             | 10.00 |       |                           |
| N-G   | 0 / 4245                  | -18.5                       | -18.5    | 0.42 (1)             | 10.00 |       |                           |
| G-O   | 0 / 0                     | -18.5                       | -18.5    | 0.19 (1)             | 10.00 |       |                           |
| O-F   | 0 / 0                     | -18.5                       | -18.5    | 0.19 (1)             | 10.00 |       |                           |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1   | MAX-  | MAX+ | FACE | DIR. | TYPE  | REQD | COM. |
|----|--------|-------|-------|------|------|------|-------|------|------|
| G  | 9-1-4  | -760  | -760  |      | BACK | VERT | TOTAL |      |      |
| H  | 6-0-0  | -1748 | -1748 |      | BACK | VERT | TOTAL |      |      |
| K  | 6-12   | -1058 | -1058 |      | BACK | VERT | TOTAL |      |      |
| L  | 2-0-12 | -1054 | -1054 |      | BACK | VERT | TOTAL |      |      |
| M  | 4-0-12 | -1054 | -1054 |      | BACK | VERT | TOTAL |      |      |
| N  | 7-1-4  | -760  | -760  |      | BACK | VERT | TOTAL |      |      |
| O  | 11-1-4 | -761  | -761  |      | BACK | VERT | TOTAL |      |      |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

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

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

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.40")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL) = L/360 (0.40")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.18/1.00 (A-B-1), BC=0.44/1.00 (H-I-1), WB=0.58/1.00 (A-I-1), SS=0.38/1.00 (J-K-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  
MT20 618 354 1657 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

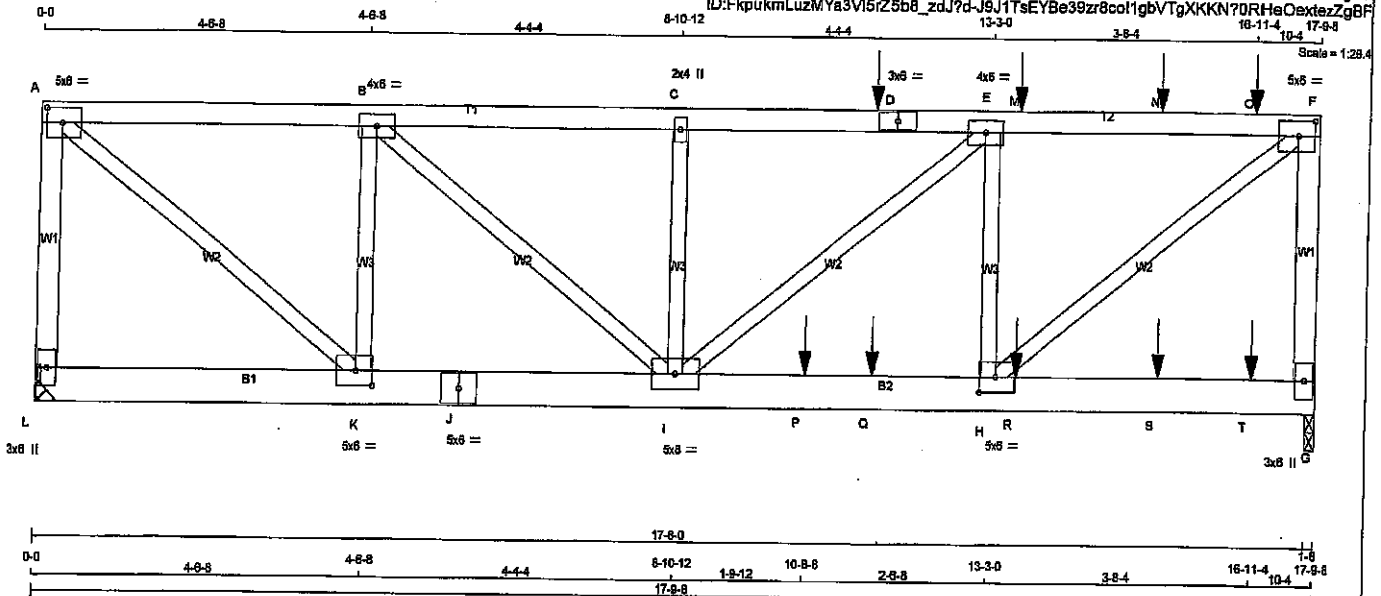
JSI GRIP= 0.78 (H) (INPUT = 0.90)  
JSI METAL= 0.43 (I) (INPUT = 1.00)

DWG NO. TAM 17905449  
STRUCTURAL  
CONTRACT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T81        | 1        | 2   | TRUSS DESC. |                  |          |

Tamereck Roof Truss, Burlington

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#### LUMBER

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

| CHORDS | SIZE | LUMBER | DESCR. |
|--------|------|--------|--------|
| L - A  | 2x4  | DRY    | No.2   |
| A - D  | 2x4  | DRY    | No.2   |
| D - F  | 2x4  | DRY    | No.2   |
| G - F  | 2x4  | DRY    | No.2   |
| L - J  | 2x6  | DRY    | No.2   |
| J - G  | 2x6  | DRY    | No.2   |

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

|     |   |    |            |
|-----|---|----|------------|
| L-A | 1 | 12 | TOP        |
| A-D | 1 | 12 | SIDE (0.0) |
| D-F | 1 | 12 | SIDE (0.0) |
| F-G | 1 | 12 | TOP        |

BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS

|     |   |    |            |
|-----|---|----|------------|
| L-J | 2 | 12 | TOP        |
| J-G | 2 | 12 | SIDE (0.0) |

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  | TMWW-I   | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| B  | TMWW-I   | MT20   | 4.0 | 6.0 |      |      |
| C  | TMWW-w   | MT20   | 2.0 | 4.0 |      |      |
| D  | TS-I     | MT20   | 3.0 | 6.0 |      |      |
| E  | TMWW-I   | MT20   | 4.0 | 6.0 |      |      |
| F  | TMWW-I   | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| G  | BMV1+p   | MT20   | 3.0 | 6.0 |      |      |
| H  | BMWW-I   | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| I  | BMWWWW-I | MT20   | 5.0 | 6.0 |      |      |
| J  | BS-I     | MT20   | 5.0 | 6.0 |      |      |
| K  | BMWW-I   | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| L  | BMV1+p   | MT20   | 3.0 | 6.0 |      |      |

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| L  | 1766                    | 0                               | 1766      | 0        |
| G  | 2450                    | 0                               | 2450      | 0        |

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

##### UNFACTORED REACTIONS

| 1ST CASE |          | MAX./MIN. COMPONENT REACTIONS |       |            |       |         |       |
|----------|----------|-------------------------------|-------|------------|-------|---------|-------|
| JT       | COMBINED | SNOW                          | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
| L        | 1240     | 865 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 375 / 0 | 0 / 0 |
| G        | 1721     | 1198 / 0                      | 0 / 0 | 0 / 0      | 0 / 0 | 523 / 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 = 4.93 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 (PLF) | MAX. CSI (LC) | MAX. UNBRACED LENGTH |
| FR-TO  |               |                  |               |                      |
| L-A    | -1700 / 0     | 0.0              | 0.0           | 0.21 (1)             |
| A-B    | -1844 / 0     | -102.1           | -102.1        | 0.18 (1)             |
| B-C    | -3079 / 0     | -102.1           | -102.1        | 0.20 (1)             |
| C-D    | -3079 / 0     | -102.1           | -102.1        | 0.31 (1)             |
| D-E    | -3079 / 0     | -102.1           | -102.1        | 0.31 (1)             |
| E-M    | -2578 / 0     | -102.1           | -102.1        | 0.30 (1)             |
| M-N    | -2578 / 0     | -102.1           | -102.1        | 0.30 (1)             |
| N-O    | -2578 / 0     | -102.1           | -102.1        | 0.30 (1)             |
| O-F    | -2578 / 0     | -102.1           | -102.1        | 0.30 (1)             |
| G-F    | -2455 / 0     | 0.0              | 0.0           | 0.31 (1)             |
| FR-TO  |               |                  |               |                      |
| L-K    | 0 / 0         | -18.5            | -18.5         | 0.04 (1)             |
| K-J    | 0 / 1844      | -18.5            | -18.5         | 0.28 (1)             |
| J-I    | 0 / 1844      | -18.5            | -18.5         | 0.28 (1)             |
| I-P    | 0 / 2578      | -18.5            | -18.5         | 0.61 (1)             |
| P-Q    | 0 / 2578      | -18.5            | -18.5         | 0.61 (1)             |
| Q-H    | 0 / 2578      | -18.5            | -18.5         | 0.61 (1)             |
| H-R    | 0 / 0         | -18.5            | -18.5         | 0.14 (1)             |
| R-S    | 0 / 0         | -18.5            | -18.5         | 0.14 (1)             |
| S-T    | 0 / 0         | -18.5            | -18.5         | 0.14 (1)             |
| T-G    | 0 / 0         | -18.5            | -18.5         | 0.14 (1)             |

##### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1   | MAX-  | MAX+ | FACE  | DIR. | TOTAL |
|----|---------|-------|-------|------|-------|------|-------|
| D  | 11-7-12 | -123  | -123  |      | FRONT | VERT | TOTAL |
| M  | 13-7-12 | -123  | -123  |      | FRONT | VERT | TOTAL |
| N  | 15-7-12 | -123  | -123  |      | FRONT | VERT | TOTAL |
| O  | 16-11-4 | -130  | -130  |      | FRONT | VERT | TOTAL |
| P  | 10-8-8  | -1465 | -1465 |      | FRONT | VERT | TOTAL |
| Q  | 11-7-12 | -28   | -28   |      | FRONT | VERT | TOTAL |
| R  | 13-7-12 | -28   | -28   |      | FRONT | VERT | TOTAL |
| S  | 15-7-12 | -28   | -28   |      | FRONT | VERT | TOTAL |
| T  | 16-11-4 | -28   | -28   |      | FRONT | VERT | TOTAL |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = 1/360 (0.59")  
CALCULATED VERT. DEFL.(LL) = 1/599 (0.07")  
ALLOWABLE DEFL.(TL) = 1/360 (0.59")  
CALCULATED VERT. DEFL.(TL) = 1/999 (0.12")

CSI: TC=0.31/1.00 (C-E:1), BC=0.61/1.00 (H-I:1), WB=0.41/1.00 (F-H:1), SS=0.30/1.00 (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

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1687 788 1987 1686

PLATE PLACEMENT TOL. = 0.250 inches

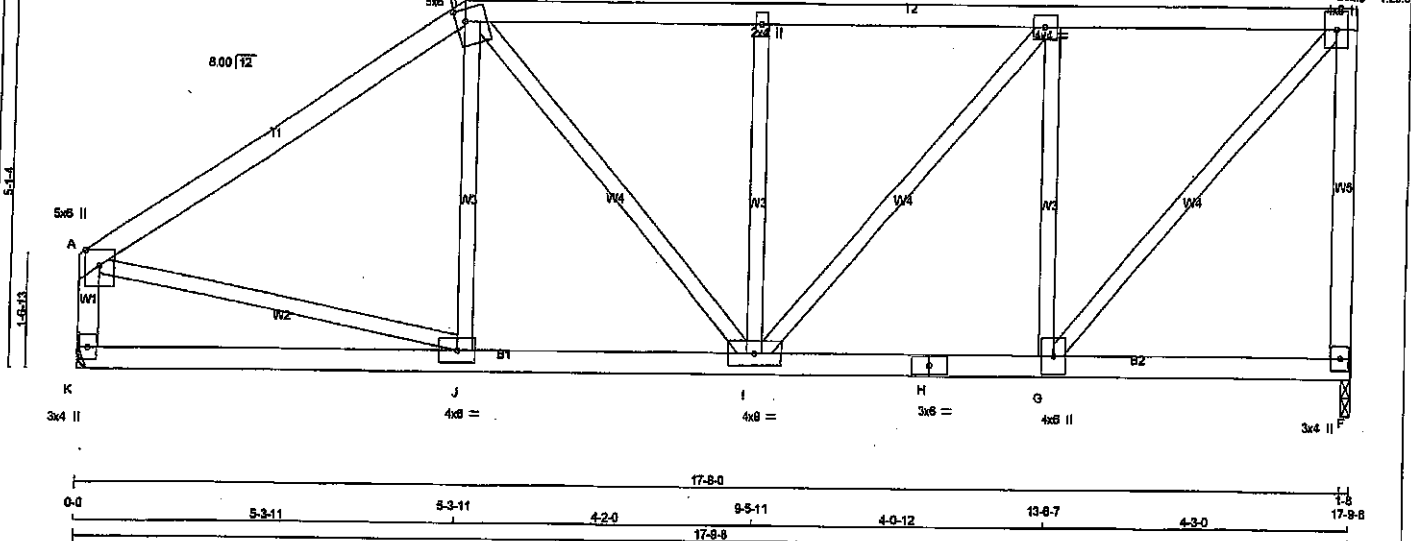
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.75 (F) (INPUT = 0.90)  
JSI METAL = 0.45 (J) (INPUT = 1.00)

DRWG NO. TAM 17905450  
STRUCTURAL  
COMPONENT ONLY

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 401794                          | T82        | 1        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) | W    | LEN | Y   | X         |
|-----------------------------|------|-----|-----|-----------|
| JT TYPE PLATES              |      |     |     |           |
| A - TMVW+p                  | MT20 | 5.0 | 6.0 | Edge      |
| B - TTWW+m                  | MT20 | 5.0 | 6.0 | 2.00 1.50 |
| C - TMVW+w                  | MT20 | 2.0 | 4.0 |           |
| D - TMVW-t                  | MT20 | 4.0 | 4.0 |           |
| E - TMVW+p                  | MT20 | 4.0 | 6.0 |           |
| F - BMV1+p                  | MT20 | 3.0 | 4.0 |           |
| G - BMVW+t                  | MT20 | 4.0 | 6.0 |           |
| H - BS-t                    | MT20 | 3.0 | 6.0 |           |
| I - BMVW-t                  | MT20 | 4.0 | 6.0 |           |
| J - BMVW-t                  | MT20 | 4.0 | 6.0 |           |
| K - 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 | RECORD |
|----------|----------------|------------------|-------|--------|
|          | GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
| JT       | VERT           | DOWN             | HORIZ | UPLIFT |
| F        | 1073           | 0                | 1073  | 0      |
| K        | 1073           | 0                | 1073  | 0      |

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

## UNFACTORED REACTIONS

| 1ST LCASE   | MAX. MIN. COMPONENT REACTIONS               |
|-------------|---------------------------------------------|
| JT COMBINED | SNOW LIVE PERM. LIVE WIND DEAD SOIL         |
| F           | 755 517 / 0 0 / 0 0 / 0 0 / 0 238 / 0 0 / 0 |
| K           | 755 517 / 0 0 / 0 0 / 0 0 / 0 238 / 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 = 5.38 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 (PLF)       | MEMB. | FORCE (LBS)   |
| FR-TO  |               |                        | FR-TO |               |
| A-B    | -1017 / 0     | -102.1 -102.1 0.55 (1) | J-B   | -85 / 56      |
| B-C    | -1022 / 0     | -102.1 -102.1 0.24 (1) | A-J   | 0 / 887       |
| C-D    | -1022 / 0     | -102.1 -102.1 0.25 (1) | G-E   | 0 / 1153      |
| D-E    | -763 / 0      | -102.1 -102.1 0.25 (1) | B-I   | 0 / 272       |
| F-E    | -1041 / 0     | 0.0 0.0 0.46 (1)       | G-D   | -774 / 0      |
| K-A    | -1032 / 0     | 0.0 0.0 0.11 (1)       | I-C   | -453 / 0      |
|        |               |                        | I-D   | 0 / 401       |
| K-J    | 0 / 0         | -18.5 -18.5 0.12 (4)   |       |               |
| J-I    | 0 / 843       | -18.5 -18.5 0.20 (1)   |       |               |
| I-H    | 0 / 783       | -18.5 -18.5 0.18 (1)   |       |               |
| H-G    | 0 / 763       | -18.5 -18.5 0.18 (1)   |       |               |
| G-F    | 0 / 0         | -18.5 -18.5 0.08 (4)   |       |               |

## DESIGN CRITERIA

SPECIFIED LOADS:  
 TOP CH. LL = 28.0 PSF  
 DL = 8.0 PSF  
 BOT CH. LL = 0.0 PSF  
 DL = 7.4 PSF  
 TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. GIC

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF BCBC 2015, OSC 2012  
 - CSA 088-09, CSA 088-14  
 - TPIC 2011, TPIC 2014

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.59")  
 CALCULATED VERT. DEFL.(LL) = L/399 (0.03")  
 ALLOWABLE DEFL.(TL) = L/360 (0.59")  
 CALCULATED VERT. DEFL.(TL) = L/399 (0.05")

CSI: TC=0.55/1.00 (A-B:1), BC=0.20/1.00 (I-J:1), WB=0.30/1.00 (D-G:1), SS=0.20/1.00 (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.

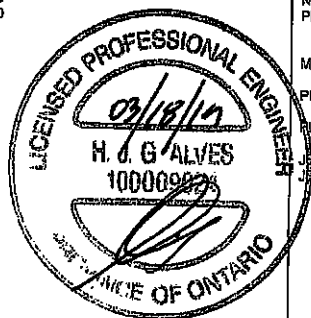
NAIL VALUES  
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
 MAX MIN MAX MIN MAX MIN  
 MT20 616 354 1687 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

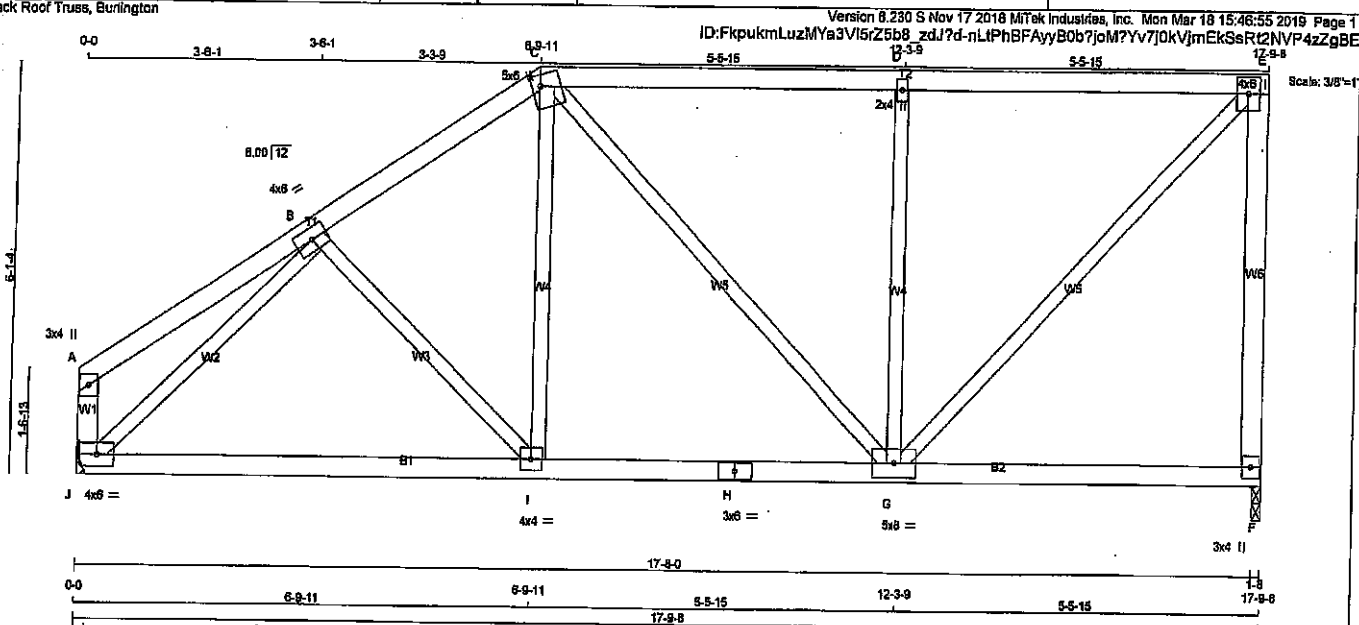
J-I GRIP=0.74 (E) (INPUT = 0.80)

J-I METAL=0.43 (A) (INPUT = 1.00)



DRWG NO. TAM 77905457  
 STRUCTURAL  
 COMPONENT ONLY

|                                 |            |             |     |                                                                                    |          |
|---------------------------------|------------|-------------|-----|------------------------------------------------------------------------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.                                                                          | DRWG NO. |
| 401794                          | T83        | 1           | 1   | GREEN PARK HOMES                                                                   |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     | Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Mon Mar 18 15:46:55 2019 Page 1 |          |



| LUMBER   | N. L. G. A. RULES | CHORDS | SIZE | DRY | LUMBER | DESCR. |
|----------|-------------------|--------|------|-----|--------|--------|
| A - C    | 2x4               | DRY    | No.2 | SPF |        |        |
| C - E    | 2x4               | DRY    | No.2 | SPF |        |        |
| F - E    | 2x4               | DRY    | No.2 | SPF |        |        |
| J - A    | 2x4               | DRY    | No.2 | SPF |        |        |
| J - H    | 2x4               | DRY    | No.2 | SPF |        |        |
| H - 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 |
|-----------------------------|---------|--------|-----|------|------|---|
| A - TMV+p                   | MT20    | 3.0    | 4.0 |      |      |   |
| B - TMWW-t                  | MT20    | 4.0    | 6.0 |      |      |   |
| C - TTWW+m                  | MT20    | 5.0    | 6.0 | 2.00 | 1.50 |   |
| D - TMVW+w                  | MT20    | 2.0    | 4.0 |      |      |   |
| E - TMVW+p                  | MT20    | 4.0    | 6.0 |      |      |   |
| F - BMV1+p                  | MT20    | 3.0    | 4.0 |      |      |   |
| G - BMVWV-t                 | MT20    | 5.0    | 6.0 |      |      |   |
| H - BS-t                    | MT20    | 3.0    | 6.0 |      |      |   |
| I - BMVW-t                  | MT20    | 4.0    | 4.0 |      |      |   |
| J - BMVW1-t                 | MT20    | 4.0    | 6.0 |      |      |   |

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT | REQD  |
|----------|----------------|------------------|-------|-------|
|          | GROSS REACTION | GROSS REACTION   | BRG   | BRG   |
| JT       | VERT           | DOWN             | UP    | IN-SX |
| F        | 1073           | 0                | 0     | 1-8   |
| J        | 1073           | 0                | 0     | 1-8   |

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

#### UNFACTORED REACTIONS

| JT | COMBINED | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | PERM. LIVE | WIND | DEAD  | SOIL |
|----|----------|----------|-------------------------------|------------|------|-------|------|
| F  | 755      | 517/0    | 0/0                           | 0/0        | 0/0  | 238/0 | 0/0  |
| J  | 755      | 517/0    | 0/0                           | 0/0        | 0/0  | 238/0 | 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 = 5.93 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.   | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LC1 (LC) | MAX. UNBRACED LENGTH | WEBS  | MEMB.   | MAX. FACTORED FORCE (LBS) | MAX. LC1 (LC) |
|--------|---------|---------------------------|---------------------------|---------------|----------------------|-------|---------|---------------------------|---------------|
| FR-TO  |         |                           |                           |               |                      | FR-TO |         |                           |               |
| A-B    | 0/21    | -102.1                    | -102.1                    | 0.18 (1)      | 10.00                | B-I   | -98/17  | 0.04 (1)                  |               |
| B-C    | -870/0  | -102.1                    | -102.1                    | 0.20 (1)      | 6.07                 | I-C   | 0/188   | 0.05 (4)                  |               |
| C-D    | -775/0  | -102.1                    | -102.1                    | 0.54 (1)      | 5.93                 | C-G   | -29/0   | 0.04 (4)                  |               |
| D-E    | -775/0  | -102.1                    | -102.1                    | 0.54 (1)      | 5.93                 | G-D   | -694/0  | 0.41 (1)                  |               |
| F-E    | -1029/0 | 0.0                       | 0.0                       | 0.74 (1)      | 7.74                 | G-E   | 0/1123  | 0.25 (1)                  |               |
| J-A    | -135/0  | 0.0                       | 0.0                       | 0.01 (1)      | 7.81                 | J-B   | -1231/0 | 0.47 (1)                  |               |
| J-I    | 0/858   | -18.5                     | -18.5                     | 0.24 (4)      | 10.00                |       |         |                           |               |
| I-H    | 0/791   | -18.5                     | -18.5                     | 0.25 (4)      | 10.00                |       |         |                           |               |
| H-G    | 0/791   | -18.5                     | -18.5                     | 0.25 (4)      | 10.00                |       |         |                           |               |
| G-F    | 0/0     | -18.5                     | -18.5                     | 0.12 (4)      | 10.00                |       |         |                           |               |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 28.0 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. O.C.

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/350 (0.59")  
CALCULATED VERT. DEFL.(LL) = L/959 (0.03")  
ALLOWABLE DEFL.(TL) = L/350 (0.59")  
CALCULATED VERT. DEFL.(TL) = L/969 (0.08")

CSI TC=0.74/1.00 (E-F:1), BC=0.25/1.00 (G-I:4), WB=0.47/1.00 (B-J:1), SS=0.27/1.00 (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

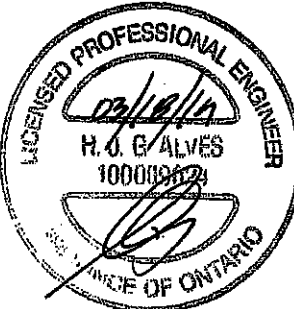
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1667 788 1987 1668

PLATE PLACEMENT TOL = 0.250 inches

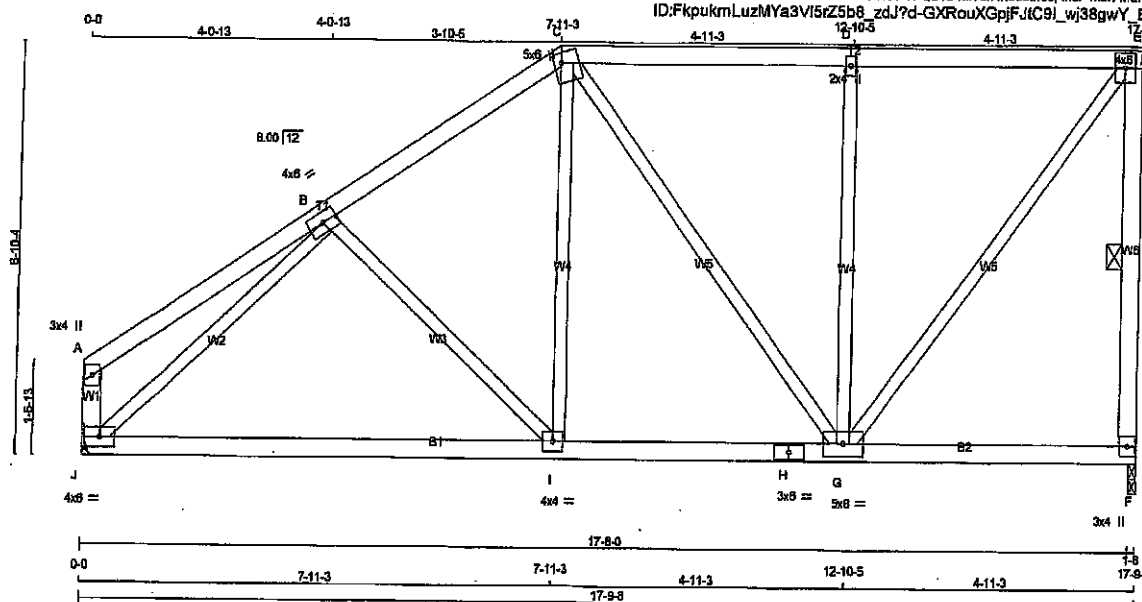
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.75 (E) (INPUT = 0.80)  
JSI METAL= 0.35 (E) (INPUT = 1.00)



DRWG NO. TAM 1405452  
STRUCTURAL  
CONSENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T84        | 1        | 1   | TRUSS DESC. |                  |          |



TOTAL WEIGHT = 82 lb

| LUMBER   | N. L. G. A. RULES | CHORDS | SIZE | DRY | LUMBER | DESCR. |
|----------|-------------------|--------|------|-----|--------|--------|
| A - C    | 2x4               | DRY    | No.2 | SPF |        |        |
| C - E    | 2x4               | DRY    | No.2 | SPF |        |        |
| F - E    | 2x4               | DRY    | No.2 | SPF |        |        |
| J - A    | 2x4               | DRY    | No.2 | SPF |        |        |
| J - H    | 2x4               | DRY    | No.2 | SPF |        |        |
| H - 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 |
|-----------------------------|---------|------|--------|-----|------|------|---|
| A                           | TMV+p   | MT20 | 3.0    | 4.0 |      |      |   |
| B                           | TMVW-t  | MT20 | 4.0    | 6.0 |      |      |   |
| C                           | TTWV+m  | MT20 | 5.0    | 6.0 | 2.00 | 1.80 |   |
| D                           | TMVW+w  | MT20 | 2.0    | 4.0 |      |      |   |
| E                           | TMVW+p  | MT20 | 4.0    | 6.0 |      |      |   |
| F                           | BMV1+p  | MT20 | 3.0    | 4.0 |      |      |   |
| G                           | BMVWV-t | MT20 | 5.0    | 8.0 |      |      |   |
| H                           | BS-t    | MT20 | 3.0    | 8.0 |      |      |   |
| I                           | BMVW-t  | MT20 | 4.0    | 4.0 |      |      |   |
| J                           | BMVW1-t | MT20 | 4.0    | 8.0 |      |      |   |

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

| BEARINGS       | FACTORED       | MAXIMUM FACTORED | INPUT  | REQD       |
|----------------|----------------|------------------|--------|------------|
| GROSS REACTION | GROSS REACTION | BRG              | BRG    |            |
| JT VERT        | DOWN           | HORZ             | UPLIFT | IN-SX      |
| F 1073         | 0              | 1073             | 0      | 1-8        |
| J 1073         | 0              | 1073             | 0      | MECHANICAL |

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

### UNFACTORED REACTIONS

| 1ST LOASE   | MAX./MIN. COMPONENT REACTIONS |       |           |       |         |       |  |
|-------------|-------------------------------|-------|-----------|-------|---------|-------|--|
| JT COMBINED | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |  |
| F 755       | 517 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 238 / 0 | 0 / 0 |  |
| J 755       | 517 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 238 / 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 = 6.10 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-F.

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 | FACTORED    | WEBS               | FACTORED            |
|--------|-------------|--------------------|---------------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD LC1 MAX | MEMB. FORCE MAX     |
| FR-TO  | FROM TO     | CSI (LC)           | UNBRAC LENGTH FR-TO |
| A-B    | 0 / 26      | -102.1 -102.1      | 0.26 (1)            |
| B-C    | -907 / 0    | -102.1 -102.1      | 0.27 (1)            |
| C-D    | -834 / 0    | -102.1 -102.1      | 0.42 (1)            |
| D-E    | -834 / 0    | -102.1 -102.1      | 0.42 (1)            |
| E-F    | -1031 / 0   | 0.0 0.0            | 0.22 (1)            |
| J-A    | -185 / 0    | 0.0 0.0            | 0.02 (1)            |
| J-I    | 0 / 872     | -18.5 -18.5        | 0.31 (4)            |
| I-H    | 0 / 737     | -18.5 -18.5        | 0.31 (4)            |
| H-G    | 0 / 737     | -18.5 -18.5        | 0.31 (4)            |
| G-F    | 0 / 0       | -18.5 -18.5        | 0.10 (4)            |

### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 28.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN.CC

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.59")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
ALLOWABLE DEFL.(TL) = L/360 (0.59")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.42/1.00 (D-E-1), BC=0.31/1.00 (I-J-4), WB=0.81/1.00 (B-J-1), SSI=0.24/1.00 (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

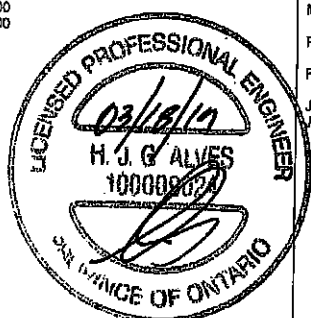
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1867 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.87 (J) (INPUT = 0.90)  
JSI METAL = 0.29 (B) (INPUT = 1.00)



DRWG NO. TAM 71905453  
STRUCTURAL  
COMPONENT ONLY

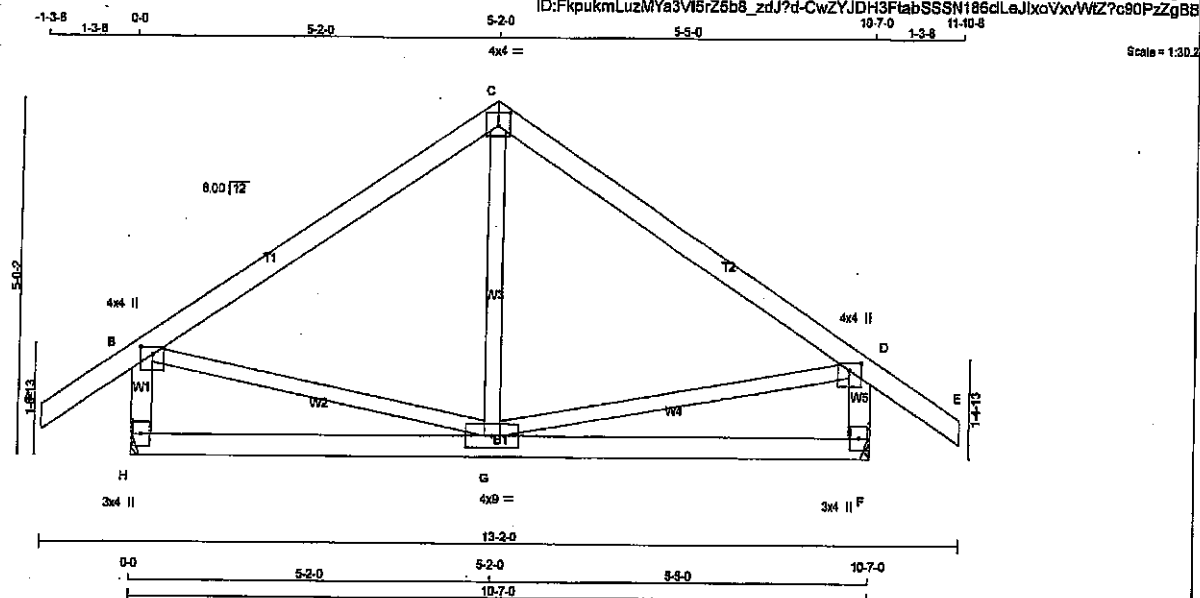


|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T86        | 3        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 3 X 45 = 134 lb

| LUMBER   | N. L. G. A. RULES | CHORDS | SIZE | DRY | 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 | 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 |
| 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       | MAXIMUM FACTORED | INPUT | REQD |
|----------|----------------|------------------|-------|------|
|          | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT       | VERT           | HORZ             | DOWN  | HORZ |
| H        | 778            | 0                | 778   | 0    |
| F        | 778            | 0                | 778   | 0    |

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

UNFACTORED REACTIONS

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |       |           |       |         |       |
|-----------|----------|-------------------------------|-------|-----------|-------|---------|-------|
| JT        | COMBINED | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| H         | 545      | 387 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 158 / 0 | 0 / 0 |
| F         | 545      | 387 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 158 / 0 | 0 / 0 |

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED             | WEBS            | MAX. FACTORED              |
|--------|---------------|----------------------|-----------------|----------------------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD LC1 (PLF) | MAX. CS1 (LC)   | MAX. UNBRACED LENGTH FR-TO |
| FR-TO  |               |                      |                 |                            |
| A-B    | 0 / 39        | -102.1               | -102.1 0.14 (1) | 10.00                      |
| B-C    | -447 / 0      | -102.1               | -102.1 0.35 (1) | 8.25                       |
| C-D    | -447 / 0      | -102.1               | -102.1 0.39 (1) | 8.25                       |
| D-E    | 0 / 39        | -102.1               | -102.1 0.14 (1) | 10.00                      |
| H-B    | -742 / 0      | 0.0                  | 0.0 0.08 (1)    | 7.81                       |
| F-D    | -739 / 0      | 0.0                  | 0.0 0.08 (1)    | 7.81                       |
| H-G    | 0 / 0         | -18.5                | -18.5 0.15 (4)  | 10.00                      |
| G-F    | 0 / 0         | -18.5                | -18.5 0.15 (4)  | 10.00                      |

DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 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=0.39/1.00 (C-D:1), BC=0.15/1.00 (F-G:4), WB=0.09/1.00 (B-G:1), SS=0.18/1.00 (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 (PSI) | SECTION (PL) |
|-----------------|-------------|--------------|
|                 | (PSI)       | (PL)         |
| MAX MIN         | MAX MIN     | MAX MIN      |
| MT20            | 618 354     | 1657 788     |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

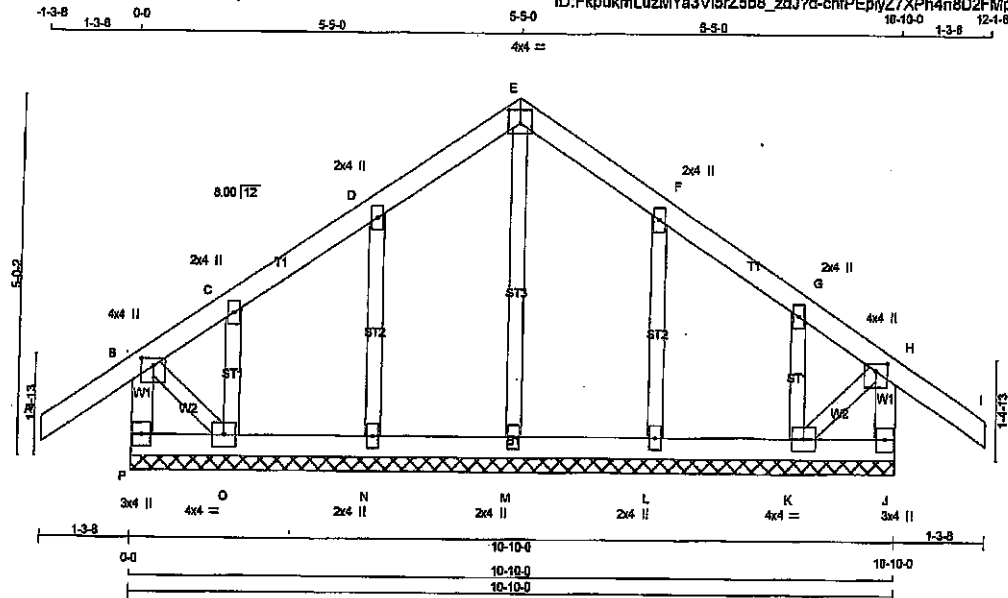
JSI GRIP= 0.55 (D) (INPUT = 0.90 )  
JSI METAL= 0.16 (D) (INPUT = 1.00 )



DRWG NO. TAM 7705455  
STRUCTURAL  
CONSTRUCTION

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>401794</b>       | TRUSS NAME<br><b>G86</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                          |          |

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Scale = 1/2\"/>

**LUMBER**  
 N. L. G. A. RULES  
 CHORDS SIZE LUMBER DESCR. SPF

|       |     |     |      |     |
|-------|-----|-----|------|-----|
| P - B | 2x4 | DRY | No.2 | SPF |
| A - E | 2x4 | DRY | No.2 | SPF |
| E - I | 2x4 | DRY | No.2 | SPF |
| J - H | 2x4 | DRY | No.2 | SPF |
| P - J | 2x4 | DRY | No.2 | SPF |

ALL WEBS 2x3 DRY No.2 SPF  
 ALL GABLE WEBS 2x3 DRY No.2 SPF  
 DRY: SEASONED LUMBER.  
 GABLE STUDS SPACED AT 2-0-0 O.C.

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**  
**BEARINGS**  
 THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.  
 THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.  
 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)  
**BRACING**  
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.  
 ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

TOTAL WEIGHT = 47 lb [M]

**PLATES (table in inches)**

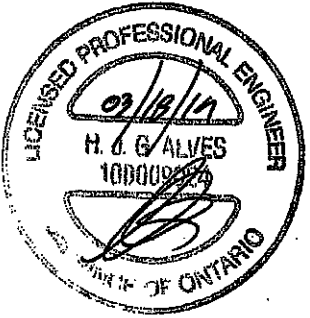
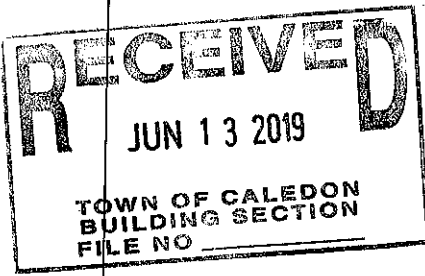
| JT TYPE   | PLATES | W   | LEN | Y    | X    |
|-----------|--------|-----|-----|------|------|
| B TWW+p   | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| C D, F, G |        |     |     |      |      |
| C TWW+w   | MT20   | 2.0 | 4.0 |      |      |
| E TWW+p   | MT20   | 4.0 | 4.0 | 2.25 | 2.00 |
| H TWW+p   | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| J BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| K BMWW1-t | MT20   | 4.0 | 4.0 |      |      |
| L M, N    |        |     |     |      |      |
| L BMW1+w  | MT20   | 2.0 | 4.0 |      |      |
| O BMWW1-t | MT20   | 4.0 | 4.0 |      |      |
| P BMV1+p  | MT20   | 3.0 | 4.0 |      |      |

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

| CHORDS |                           |                               |                           | WEBS  |                           |                           |          |
|--------|---------------------------|-------------------------------|---------------------------|-------|---------------------------|---------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |          |
| FR-TO  |                           | FROM TO                       |                           | FR-TO |                           |                           |          |
| P-B    | -294 / 0                  | 0.0 0.0                       | 0.03 (1)                  | 7.81  | M-E                       | -160 / 0                  | 0.06 (1) |
| A-B    | 0 / 39                    | -102.1 -102.1                 | 0.14 (1)                  | 10.00 | N-D                       | -248 / 0                  | 0.05 (1) |
| B-C    | -53 / 0                   | -102.1 -102.1                 | 0.13 (1)                  | 6.25  | O-C                       | -82 / 0                   | 0.01 (1) |
| C-D    | -1 / 0                    | -102.1 -102.1                 | 0.07 (1)                  | 10.00 | L-F                       | -248 / 0                  | 0.05 (1) |
| D-E    | -18 / 0                   | -102.1 -102.1                 | 0.07 (1)                  | 6.25  | K-G                       | -82 / 0                   | 0.01 (1) |
| E-F    | -18 / 0                   | -102.1 -102.1                 | 0.07 (1)                  | 6.25  | B-O                       | 0 / 17                    | 0.00 (1) |
| F-G    | -1 / 0                    | -102.1 -102.1                 | 0.07 (1)                  | 10.00 | K-H                       | 0 / 17                    | 0.00 (1) |
| G-H    | -53 / 0                   | -102.1 -102.1                 | 0.13 (1)                  | 6.25  |                           |                           |          |
| H-I    | 0 / 39                    | -102.1 -102.1                 | 0.14 (1)                  | 10.00 |                           |                           |          |
| J-H    | -294 / 0                  | 0.0 0.0                       | 0.03 (1)                  | 7.81  |                           |                           |          |
| P-O    | 0 / 0                     | -18.5 -18.5                   | 0.01 (4)                  | 10.00 |                           |                           |          |
| O-N    | 0 / 10                    | -18.5 -18.5                   | 0.02 (4)                  | 10.00 |                           |                           |          |
| N-M    | 0 / 4                     | -18.5 -18.5                   | 0.01 (4)                  | 10.00 |                           |                           |          |
| M-L    | 0 / 4                     | -18.5 -18.5                   | 0.01 (4)                  | 10.00 |                           |                           |          |
| L-K    | 0 / 10                    | -18.5 -18.5                   | 0.02 (4)                  | 10.00 |                           |                           |          |
| K-J    | 0 / 0                     | -18.5 -18.5                   | 0.01 (4)                  | 10.00 |                           |                           |          |

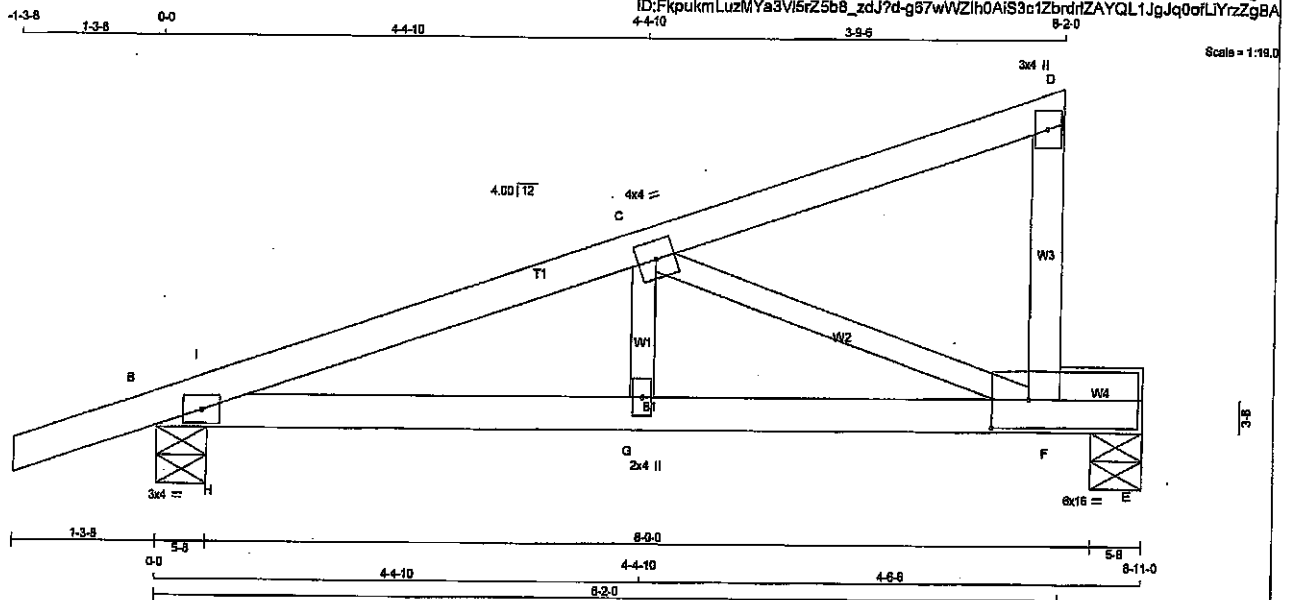
**DESIGN CRITERIA**  
**SPECIFIED LOADS:**  
 TOP CH. LL = 28.0 PSF  
 DL = 8.0 PSF  
 BOT CH. LL = 0.0 PSF  
 DL = 7.4 PSF  
 TOTAL LOAD = 42.4 PSF  
**SPACING = 24.0 IN. C/C**  
 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015  
 THIS DESIGN COMPLIES WITH:  
 - PART 9 OF CBC 2018, OBC 2012  
 - CSA 086-09, CSA 086-14  
 - TPIC 2011, TPIC 2014  
**DESIGN ASSUMPTIONS**  
 - OVERHANG NOT TO BE ALTERED OR CUT OFF.  
 (55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD  
 CSI: TC=0.14/1.00 (A-B:1), BC=0.02/1.00 (N-O:4), WB=0.06/1.00 (E-M:1), SI=0.09/1.00 (A-B:1)  
 DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENB=1.10  
 COMPANION LIVE LOAD FACTOR = 1.00  
 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
 MAX MIN MAX MIN MAX MIN  
 MT20 618 354 1687 788 1987 1655  
 PLATE PLACEMENT TOL. = 0.250 inches  
 PLATE ROTATION TOL. = 5.0 Deg.  
 JSI GRIP= 0.21 (B) (INPUT = 0.90)  
 JSI METAL = 0.13 (F) (INPUT = 1.00)



DRWG NO. TAM 71905458  
 STRUCTURAL  
 CONSULTANT ONLY

|                                 |                          |                                                                                                                                                                |                 |                                      |          |
|---------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>401794</b>       | TRUSS NAME<br><b>T87</b> | QUANTITY<br><b>3</b>                                                                                                                                           | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          | Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 15:48:59 2019 Page 1<br>ID:FkpukmLuzMYa3V5rZ5b8_zdJ7d-g57wVZlh0A1S3c12brd1ZAYQL1JgJq0ofLIYrzZg8A |                 |                                      |          |
|                                 |                          | TRUSS DESC.                                                                                                                                                    |                 |                                      |          |



#### LUMBERS

| N. L. G. A. RULES         | CHORDS | SIZE | DRY  | LUMBER | DESCR. |
|---------------------------|--------|------|------|--------|--------|
| A - D                     | 2x4    | DRY  | No.2 | SPF    |        |
| F - D                     | 2x4    | DRY  | No.2 | SPF    |        |
| B - E                     | 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  | TM81-I  | MT20   | 3.0 | 4.0  |      |      |
| C  | TMWW-I  | MT20   | 4.0 | 4.0  |      |      |
| D  | TMV+p   | MT20   | 3.0 | 4.0  |      |      |
| F  | BMVWW-I | MT20   | 6.0 | 16.0 | 3.00 | 4.00 |
| G  | BMV+w   | MT20   | 2.0 | 4.0  |      |      |

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

| BEARINGS |      | FACTORED       | MAXIMUM FACTORED | INPUT | REQD   |
|----------|------|----------------|------------------|-------|--------|
|          |      | GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
| JT       | VERT | HORZ           | DOWN             | HORZ  | UPLIFT |
| B        | 971  | 0              | 671              | 0     | 0      |
| E        | 464  | 0              | 464              | 0     | 0      |

#### UNFACTORED REACTIONS

| 1ST LCASE | MAX/MIN COMPONENT REACTIONS |         |       |           |       |         |       |
|-----------|-----------------------------|---------|-------|-----------|-------|---------|-------|
| JT        | COMBINED                    | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| B         | 470                         | 335 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 135 / 0 | 0 / 0 |
| E         | 328                         | 217 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 111 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.03 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 |             | FACTORED |          | WEBS  |             | FACTORED |          |
|--------|-------------|----------|----------|-------|-------------|----------|----------|
| MEMB.  | FORCE (LBS) | VERT.    | LOAD LC1 | MEMB. | FORCE (LBS) | MAX      | CS1 (LC) |
| FR-TO  |             | FROM     | TO       | FR-TO |             |          |          |
| A-B    | 0 / 20      | -102.1   | -102.1   | G-C   | 0 / 246     | 0.06 (1) |          |
| B-I    | -1028 / 0   | -102.1   | -102.1   | C-F   | -1044 / 0   | 0.27 (1) |          |
| I-C    | -1013 / 0   | -102.1   | -102.1   | H-I   | -174 / 0    | 0.00 (1) |          |
| C-D    | -13 / 0     | -102.1   | -102.1   |       |             |          |          |
| F-D    | -153 / 0    | 0.0      | 0.0      |       |             |          |          |
| B-H    | 0 / 971     | -18.5    | -18.5    |       |             |          |          |
| H-G    | 0 / 971     | -18.5    | -18.5    |       |             |          |          |
| G-F    | 0 / 971     | -18.5    | -18.5    |       |             |          |          |
| F-E    | 0 / 0       | -18.5    | -18.5    |       |             |          |          |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

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

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.30")  
CALCULATED VERT. DEFL.(LL) =  $L/998$  (0.08")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.30")  
CALCULATED VERT. DEFL.(TL) =  $L/675$  (0.12")

CSI: TC=0.17/1.00 (C-I:1), BC=0.62/1.00 (F-G:1), WB=0.27/1.00 (C-F:1), SS=0.18/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

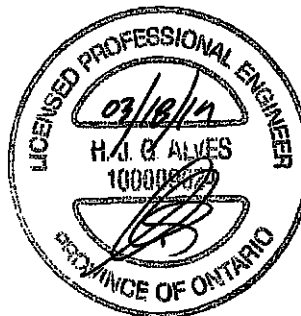
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.68 (C) (INPUT = 0.90)  
JSI METAL = 0.41 (B) (INPUT = 1.00)



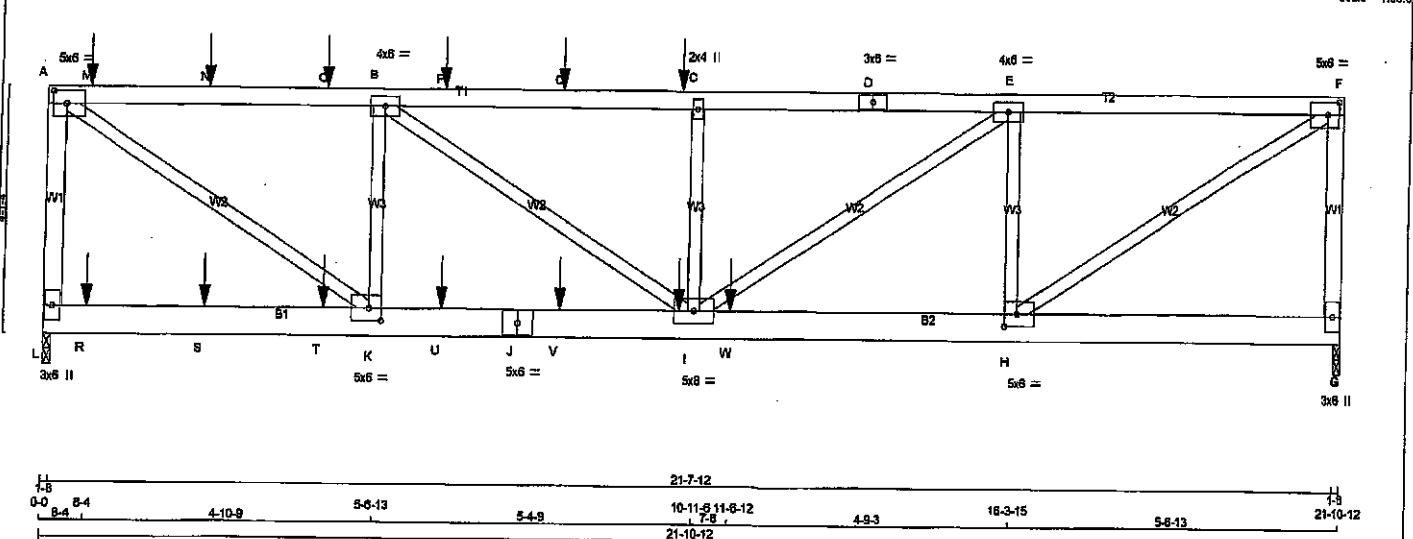
DRWG NO. TAM 71905457  
STRUCTURAL  
CONSENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | T110       | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.230 8 Nov 17 2018 MITek Industries, Inc. Mon Mar 18 15:47:00 2019 Page 1  
ID: FpkukmLuzMYa3V15rZ5b8\_zdJ?d-8JgIkVJnUqJhml9Y84qmjdSkQGpJCA0J5G4IzZgB8

0-0 8-4 4-10-9 5-5-13 5-4-9 10-11-8 5-4-9 18-3-15 5-6-13 21-10-12  
Scale = 1:35.6



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

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

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

| CHORDS #ROWS                            | SURFACE SPACING (IN) | LOAD (PLF)  |
|-----------------------------------------|----------------------|-------------|
| TOP CHORDS: (0.122"x3") SPIRAL NAILS    |                      |             |
| L - A                                   | 12                   | TOP         |
| A - D                                   | 12                   | TOP         |
| D - F                                   | 12                   | TOP         |
| F - G                                   | 12                   | TOP         |
| BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS |                      |             |
| L - J                                   | 12                   | SIDE(0.0)   |
| J - G                                   | 12                   | SIDE(183.1) |
| WEBS: (0.122"x3") SPIRAL NAILS          |                      |             |
| 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.

| PLATES (table is in inches) | JT TYPE | PLATES | W   | LEN | Y    | X    |
|-----------------------------|---------|--------|-----|-----|------|------|
| A                           | TMW-I   | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| B                           | TMW-I   | MT20   | 4.0 | 6.0 |      |      |
| C                           | TMW-I   | MT20   | 2.0 | 4.0 |      |      |
| D                           | TS-4    | MT20   | 3.0 | 6.0 |      |      |
| E                           | TMW-I   | MT20   | 4.0 | 6.0 |      |      |
| F                           | TMW-I   | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| G                           | BMV-I   | MT20   | 3.0 | 6.0 |      |      |
| H                           | BMW-I   | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| I                           | BMW-I   | MT20   | 5.0 | 6.0 |      |      |
| J                           | BS-4    | MT20   | 5.0 | 6.0 |      |      |
| K                           | BMW-I   | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| L                           | BMV-I   | MT20   | 3.0 | 6.0 |      |      |

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | RECORD BRG |
|----------|-------------------------|---------------------------------|-----------|------------|
| JT       | VERT                    | DOWN                            | UPLIFT    | IN-SX      |
| L        | 2540                    | 0                               | 0         | 1-8        |
| G        | 2197                    | 0                               | 0         | 1-8        |

| UNFACTORED REACTIONS | 1ST LOASE | MAX/MIN. COMPONENT REACTIONS |
|----------------------|-----------|------------------------------|
| JT                   | COMBINED  | SNOW                         |
| L                    | 1788      | 1223 / 0                     |
| G                    | 1545      | 1069 / 0                     |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.99 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 | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | WEBS  | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) |
|--------|---------------------------|---------------------------|--------------------------------|--------------------------------|-------|---------------------------|--------------------------------|--------------------------------|
| FR-TO  |                           |                           |                                |                                | FR-TO |                           |                                |                                |
| L-A    | -2442 / 0                 | 0.0                       | 0.0                            | 0.30 (1)                       | H-F   | 0 / 3485                  | 0.43 (1)                       |                                |
| A-M    | -3080 / 0                 | -102.1                    | -102.1                         | 0.48 (1)                       | A-K   | 0 / 3708                  | 0.46 (1)                       |                                |
| M-N    | -3080 / 0                 | -102.1                    | -102.1                         | 0.48 (1)                       | H-E   | -1684 / 0                 | 0.21 (1)                       |                                |
| N-O    | -3080 / 0                 | -102.1                    | -102.1                         | 0.48 (1)                       | K-B   | -1938 / 0                 | 0.25 (1)                       |                                |
| O-B    | -3080 / 0                 | -102.1                    | -102.1                         | 0.48 (1)                       | I-E   | 0 / 1844                  | 0.23 (1)                       |                                |
| B-P    | -4412 / 0                 | -102.1                    | -102.1                         | 0.54 (1)                       | B-I   | 0 / 1621                  | 0.20 (1)                       |                                |
| P-Q    | -4412 / 0                 | -102.1                    | -102.1                         | 0.54 (1)                       | I-C   | -873 / 0                  | 0.22 (1)                       |                                |
| Q-C    | -4412 / 0                 | -102.1                    | -102.1                         | 0.54 (1)                       |       |                           |                                |                                |
| C-D    | -4412 / 0                 | -102.1                    | -102.1                         | 0.38 (1)                       |       |                           |                                |                                |
| D-E    | -4412 / 0                 | -102.1                    | -102.1                         | 0.38 (1)                       |       |                           |                                |                                |
| E-F    | -2895 / 0                 | -102.1                    | -102.1                         | 0.29 (1)                       |       |                           |                                |                                |
| G-F    | -2188 / 0                 | 0.0                       | 0.0                            | 0.27 (1)                       |       |                           |                                |                                |
| L-R    | 0 / 0                     | -18.5                     | -18.5                          | 0.06 (4)                       |       |                           |                                |                                |
| R-S    | 0 / 0                     | -18.5                     | -18.5                          | 0.06 (4)                       |       |                           |                                |                                |
| S-T    | 0 / 0                     | -18.5                     | -18.5                          | 0.06 (4)                       |       |                           |                                |                                |
| T-K    | 0 / 0                     | -18.5                     | -18.5                          | 0.06 (4)                       |       |                           |                                |                                |
| K-U    | 0 / 3080                  | -18.5                     | -18.5                          | 0.27 (1)                       |       |                           |                                |                                |
| U-J    | 0 / 3080                  | -18.5                     | -18.5                          | 0.27 (1)                       |       |                           |                                |                                |
| J-V    | 0 / 3080                  | -18.5                     | -18.5                          | 0.27 (1)                       |       |                           |                                |                                |
| V-I    | 0 / 3080                  | -18.5                     | -18.5                          | 0.27 (1)                       |       |                           |                                |                                |
| I-W    | 0 / 2895                  | -18.5                     | -18.5                          | 0.38 (1)                       |       |                           |                                |                                |
| W-H    | 0 / 2895                  | -18.5                     | -18.5                          | 0.38 (1)                       |       |                           |                                |                                |
| H-G    | 0 / 0                     | -18.5                     | -18.5                          | 0.05 (4)                       |       |                           |                                |                                |

| FACTORED CONCENTRATED LOADS (LBS) | LOC.    | LC1   | MAX.  | FACE | DIR.  | TYPE | HEEL  | CONN. |
|-----------------------------------|---------|-------|-------|------|-------|------|-------|-------|
| C                                 | 10-8-4  | -113  | -113  | ---  | FRONT | VERT | TOTAL | ---   |
| I                                 | 10-8-4  | -25   | -25   | ---  | FRONT | VERT | TOTAL | ---   |
| M                                 | 8-4     | -129  | -129  | ---  | FRONT | VERT | TOTAL | ---   |
| N                                 | 2-8-4   | -113  | -113  | ---  | FRONT | VERT | TOTAL | ---   |
| O                                 | 4-8-4   | -113  | -113  | ---  | FRONT | VERT | TOTAL | ---   |
| P                                 | 6-8-4   | -113  | -113  | ---  | FRONT | VERT | TOTAL | ---   |
| Q                                 | 8-8-4   | -113  | -113  | ---  | FRONT | VERT | TOTAL | ---   |
| R                                 | 8-4     | -28   | -28   | ---  | FRONT | VERT | TOTAL | ---   |
| S                                 | 2-8-4   | -25   | -25   | ---  | FRONT | VERT | TOTAL | ---   |
| T                                 | 4-8-4   | -25   | -25   | ---  | FRONT | VERT | TOTAL | ---   |
| U                                 | 6-8-4   | -25   | -25   | ---  | FRONT | VERT | TOTAL | ---   |
| V                                 | 8-8-4   | -25   | -25   | ---  | FRONT | VERT | TOTAL | ---   |
| W                                 | 11-8-12 | -1248 | -1248 | ---  | FRONT | VERT | TOTAL | ---   |

TOTAL WEIGHT = 2 X 100 = 200 lb

| DESIGN CRITERIA       |
|-----------------------|
| SPECIFIED LOADS:      |
| TOP CH. LL = 28.0 PSF |
| DL = 6.0 PSF          |
| BOT CH. LL = 0.0 PSF  |
| DL = 7.4 PSF          |
| TOTAL LOAD = 42.4 PSF |

SPACING = 240 IN G/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEF.(LL) = L/360 (0.73")  
CALCULATED VERT. DEF.(LL) = L/989 (0.09")  
ALLOWABLE DEF.(TL) = L/360 (0.73")  
CALCULATED VERT. DEF.(TL) = L/899 (0.17")

CSI: TC=0.54/1.00 (B-C-1), BC=0.38/1.00 (H-I-1), WB=0.48/1.00 (A-K-1), SS=0.39/1.00 (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

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

| NAIL VALUES                     |
|---------------------------------|
| PLATE GRIP(DRY) SHEAR SECTION   |
| (PSI) (PLI) (PLI)               |
| MAX MIN MAX MIN MAX MIN         |
| MT20 618 354 1867 788 1987 1688 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.75 (A) (INPUT = 0.90)  
JSI METAL = 0.38 (H) (INPUT = 1.00)

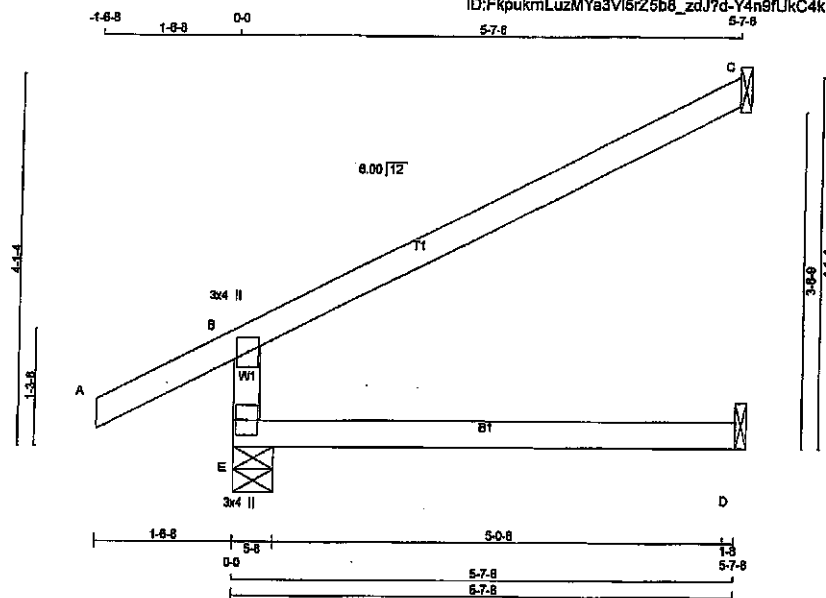
DRWG NO. TAM 790545B  
STRUCTURAL  
CORPORATION

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | J11        | 6        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Mon Mar 18 15:48:12 2019 Page 1  
ID:FkpukmLuzMYa3V15rZ5b8\_zdJ7d-Y4n9fJkC4kn7xOxXLTHquekQLO7AA6T6\_rTJO4zZgBv

Scale = 1/23.6



#### LUMBER

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT TYPE | PLATES | W    | LEN | Y   | X |
|---------|--------|------|-----|-----|---|
| B       | TMV+p  | MT20 | 3.0 | 4.0 |   |
| E       | 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 | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| E  | 584                     | 0    | 584                             | 0    | 5-8       | 5-8      |
| C  | 215                     | 0    | 215                             | 0    | 1-8       | 1-8      |
| D  | 43                      | 0    | 49                              | 0    | 1-8       | 1-8      |

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX/MIN COMPONENT REACTIONS |       |           |       |         |       |
|-----------|----------|-----------------------------|-------|-----------|-------|---------|-------|
| JT        | COMBINED | SNOW                        | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| E         | 407      | 297 / 0                     | 0 / 0 | 0 / 0     | 0 / 0 | 110 / 0 | 0 / 0 |
| C         | 148      | 123 / 0                     | 0 / 0 | 0 / 0     | 0 / 0 | 25 / 0  | 0 / 0 |
| D         | 35       | 0 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 35 / 0  | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 MAX (PLF) |        |          |       | MAX. UNBRACED LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
|-------|--------|---------------------------|-----------------------------------|--------|----------|-------|----------------------------|-------|---------------------------|---------------|
|       |        |                           | FROM                              | TO     | LC1      | LC2   |                            |       |                           |               |
| FR-TO |        |                           |                                   |        |          |       |                            |       |                           |               |
| E-B   |        | -523 / 0                  | 0.0                               | 0.0    | 0.11 (4) | 7.81  |                            |       |                           |               |
| A-B   |        | 0 / 37                    | -102.1                            | -102.1 | 0.19 (1) | 10.00 |                            |       |                           |               |
| B-C   |        | -32 / 0                   | -102.1                            | -102.1 | 0.55 (1) | 6.25  |                            |       |                           |               |
| E-D   |        | 0 / 0                     | -18.5                             | -18.5  | 0.12 (4) | 10.00 |                            |       |                           |               |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. GC

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

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

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/889 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/889 (0.03")

CSI: TC=0.55/1.00 (B-C:1), BC=0.12/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.25/1.00 (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

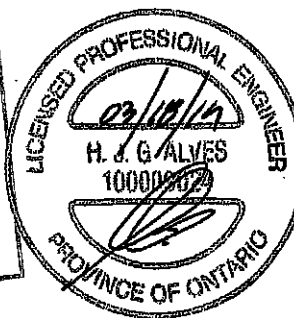
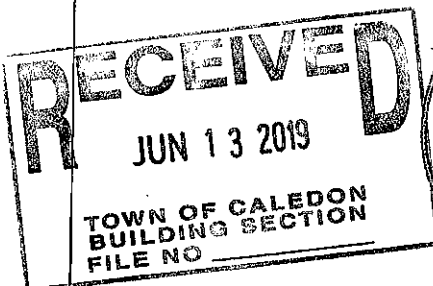
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1857 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

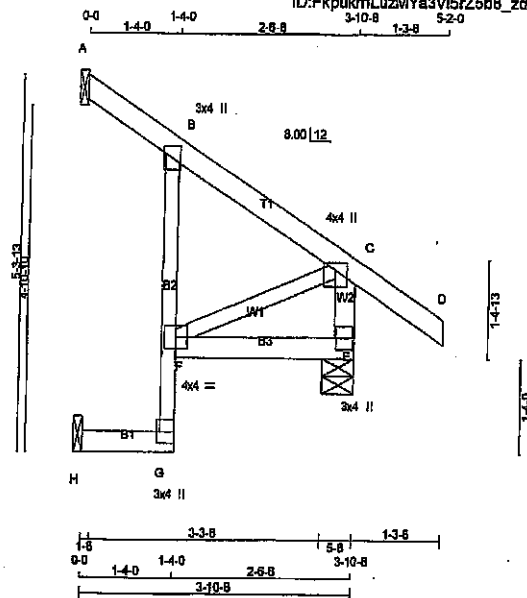
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.22 (E) (INPUT = 0.80)  
JSI METAL = 0.15 (B) (INPUT = 1.00)



DWG NO. TAM 71905459  
STRUCTURAL  
C/O 2019-01-11

| JOB NAME                        | TRUSS NAME | QUANTITY                                                                           | PLY | JOB DESC.         | DRWG NO. |
|---------------------------------|------------|------------------------------------------------------------------------------------|-----|-------------------|----------|
| 401794                          | J51S       | 3                                                                                  | 1   | GREEN PARK HOMES. |          |
| Tamarack Roof Truss, Burlington |            | Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Mon Mar 18 15:46:13 2019 Page 1 |     |                   |          |
|                                 |            | ID:FkpukmLuzMYa3V5rZ5b8_zdJ7d-0GLXtqqr2v_YYW/vBo3RsGgVoSlvZJFVCgwWzZgBu            |     |                   |          |
|                                 |            | Scale = 1:30.2                                                                     |     |                   |          |



| LUMBER                |        |      |        |
|-----------------------|--------|------|--------|
| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER |
| A - D                 | 2x4    | DRY  | No.2   |
| E - C                 | 2x4    | DRY  | No.2   |
| H - G                 | 2x4    | DRY  | No.2   |
| G - B                 | 2x3    | 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                           | TMVW+p | MT20   | 4.0 | 4.0 | 1.25 2.00 |
| E                           | BMV1+p | MT20   | 3.0 | 4.0 |           |
| F                           | BMVW1  | MT20   | 4.0 | 4.0 |           |
| G                           | BMV+p  | MT20   | 3.0 | 4.0 | 2.00 Edge |

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 |                 |                 |
| A  | 134                     | 2    | 134                             | 2    | 1-8             | 1-8             |
| E  | 440                     | 0    | 440                             | 0    | 5-8             | 5-8             |
| H  | 33                      | -2   | 33                              | -2   | 1-8             | 1-8             |

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) A, H

#### UNFACTORED REACTIONS

| JT | 1ST CASE |       | MAX. MIN. COMPONENT REACTIONS |            | WIND | DEAD | SOIL |
|----|----------|-------|-------------------------------|------------|------|------|------|
|    | COMBINED | SNOW  | LIVE                          | PERM. LIVE |      |      |      |
| A  | 94       | 67/0  | 0/0                           | 0/0        | 0/0  | 27/0 | 0/0  |
| E  | 307      | 228/0 | 0/0                           | 0/0        | 0/0  | 78/0 | 0/0  |
| H  | 24       | 10/0  | 0/0                           | 0/0        | 0/0  | 14/0 | 0/0  |

#### HORIZONTAL REACTIONS

| JT | 1  | 2/-1 | 0/0 | 0/0 | 0/0 | 0/-1 | 0/0 |
|----|----|------|-----|-----|-----|------|-----|
| H  | -1 | 1/-2 | 0/0 | 0/0 | 0/0 | 1/0  | 0/0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (5)

| MEMB. | CHORDS                    |                           | WEBS                      |                           | MEMB. | FACTORED                  |                           |
|-------|---------------------------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|
|       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) |       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) |
| FR-TO |                           |                           |                           |                           | FR-TO |                           |                           |
| A-B   | 0/36                      | -102.1 -102.1             | 0.13 (1)                  | 10.00                     | F-C   | 0/119                     | 0.03 (1)                  |
| B-C   | -74/0                     | -102.1 -102.1             | 0.20 (1)                  | 6.25                      |       |                           |                           |
| C-D   | 0/36                      | -102.1 -102.1             | 0.14 (1)                  | 10.00                     |       |                           |                           |
| E-C   | -412/0                    | 0.0 0.0                   | 0.13 (1)                  | 7.81                      |       |                           |                           |
| H-G   | -2/2                      | -18.5 -18.5               | 0.04 (1)                  | 10.00                     |       |                           |                           |
| G-F   | -10/6                     | 0.0 0.0                   | 0.08 (1)                  | 7.81                      |       |                           |                           |
| F-B   | -35/21                    | 0.0 0.0                   | 0.10 (1)                  | 7.81                      |       |                           |                           |
| F-E   | -86/0                     | -18.5 -18.5               | 0.03 (4)                  | 6.25                      |       |                           |                           |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 28.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, CBC 2012  
- CSA 086-06, CSA 086-14  
- TPIC 2011, TPIC 2014

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 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=0.20/1.00 (B-C:1), BC=0.10/1.00 (B-F:1), WB=0.03/1.00 (C-F: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 LEFT HEEL ONLY

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

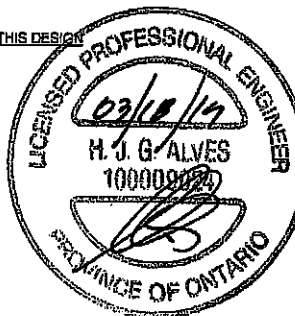
NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1667 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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

DRWG NO. TAM 77905460  
STRUCTURAL  
CONSTRUCTION

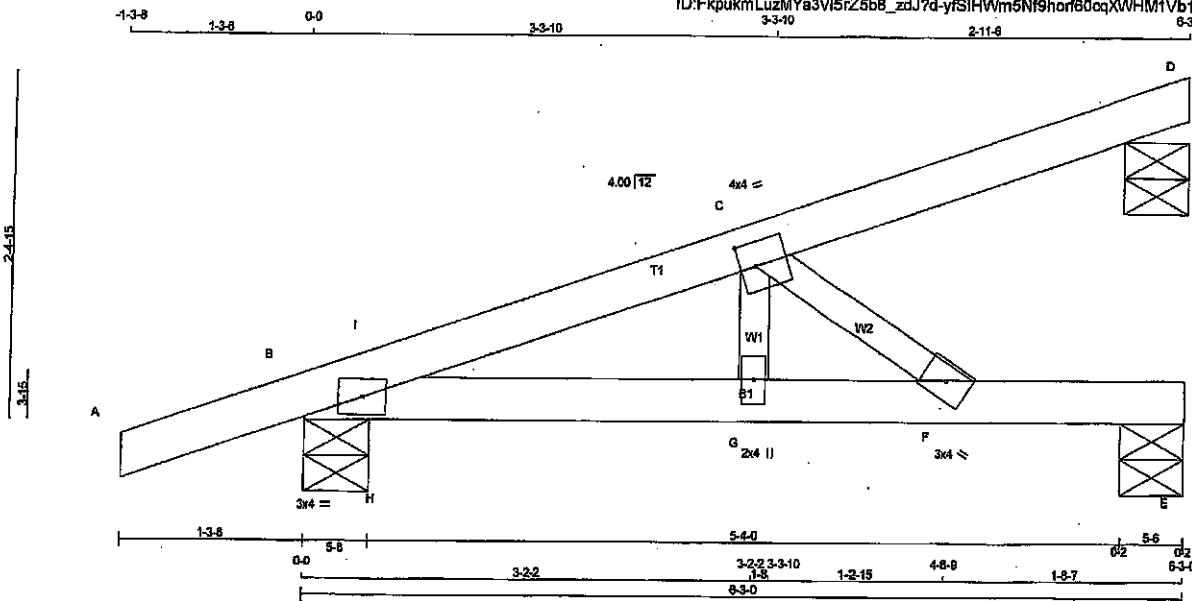


|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | J52        | 18       | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MITek Industries, Inc. Mon Mar 18 15:46:15 2018 Page 1  
ID:FkpukmLuzMYa3V5rZ5bB\_zdJ7d-yfSIHWm5Nf9horf60cqXWHM1Vb1zNSOYgphN\_PzZgBs

Scale = 1:14.8



TOTAL WEIGHT = 18 X 18 = 330 LB

#### LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - D 2x4 DRY

B - E 2x4 DRY

ALL WEBS 2x3 DRY

DRY: SEASONED LUMBER.

LUMBER

No.2

No.2

No.2

DESCR.

SPF

SPF

SPF

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMB1-I  | MT20   | 3.0 | 4.0 |      |      |
| C  | TMBWV-I | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| D  | BMWV-w  | MT20   | 3.0 | 4.0 |      |      |
| G  | BMWV-w  | MT20   | 2.0 | 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 |           |          |
| D  | 181                     | 0    | 181                             | 0    | 5-8 (5-8) | 5-8      |
| B  | 513                     | 0    | 513                             | 0    | 5-8       | 5-8      |
| E  | 216                     | 0    | 216                             | 0    | 5-8       | 5-8      |

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

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

#### UNFACTORED REACTIONS

| JT | 1ST LOASE COMBINED | MAX/MIN. COMPONENT REACTIONS |       |            |       |         |
|----|--------------------|------------------------------|-------|------------|-------|---------|
|    |                    | SNOW                         | LIVE  | PERM. LIVE | WIND  | DEAD    |
| D  | 111                | 88 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 23 / 0  |
| B  | 359                | 259 / 0                      | 0 / 0 | 0 / 0      | 0 / 0 | 100 / 0 |
| E  | 154                | 93 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 61 / 0  |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 |          | MAX. UNBRAC LENGTH PR-TO | WEBS MAX. FACTORED FORCE (LBS) | MAX. CSI (LC)         |
|-------|---------------------------|-------------------------|----------|--------------------------|--------------------------------|-----------------------|
|       |                           | VERT. (PLF)             | CSI (LC) |                          |                                |                       |
| FR-TO |                           | FROM                    | TO       |                          |                                |                       |
| A-B   | 0/20                      | -102.1                  | -102.1   | 0.13 (1)                 | 10.00                          |                       |
| B-I   | -834 / 0                  | -102.1                  | -102.1   | 0.02 (1)                 | 8.25                           | C-F -768 / 0 0.12 (1) |
| I-C   | -832 / 0                  | -102.1                  | -102.1   | 0.12 (1)                 | 8.25                           | G-C 0 / 390 0.09 (1)  |
| C-D   | 0/2                       | -102.1                  | -102.1   | 0.17 (1)                 | 10.00                          | H-I -154 / 0 0.00 (1) |
| B-H   | 0 / 598                   | -18.5                   | -18.5    | 0.20 (1)                 | 10.00                          |                       |
| H-G   | 0 / 598                   | -18.5                   | -18.5    | 0.20 (1)                 | 10.00                          |                       |
| G-F   | 0 / 608                   | -18.5                   | -18.5    | 0.56 (1)                 | 10.00                          |                       |
| F-E   | 0 / 0                     | -18.5                   | -18.5    | 0.46 (1)                 | 10.00                          |                       |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |               |
|------------|---------------|
| TOP CH.    | LL = 29.0 PSF |
|            | DL = 6.0 PSF  |
| BOT CH.    | LL = 0.0 PSF  |
|            | DL = 7.4 PSF  |
| TOTAL LOAD | = 42.4 PSF    |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, OBC 2012
- CSA 086-09, CSA 088-14
- TPC 2011, TPC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/380 (0.21")  
CALCULATED VERT. DEFL.(LL) = L/989 (0.05")  
ALLOWABLE DEFL.(TL) = L/360 (0.21")  
CALCULATED VERT. DEFL.(TL) = L/784 (0.10")

CSI: TC=0.177/1.00 (C-D:1), BC=0.56/1.00 (F-G:1),  
WB=0.12/1.00 (C-F:1), SSI=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

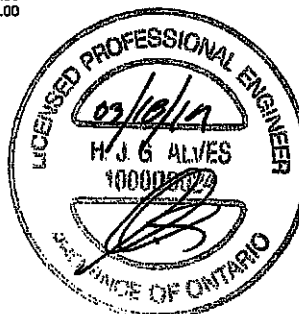
| PLATE   | GRIP(DRY) | SHEAR   | SECTION |
|---------|-----------|---------|---------|
| (PSI)   | (PLI)     | (PLI)   | (PLI)   |
| MAX MIN | MAX MIN   | MAX MIN | MAX MIN |
| MT20    | 618       | 354     | 1667    |
|         | 788       | 1987    | 1858    |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.63 (C) (INPUT = 0.90)

JSI METAL= 0.27 (F) (INPUT = 1.00)

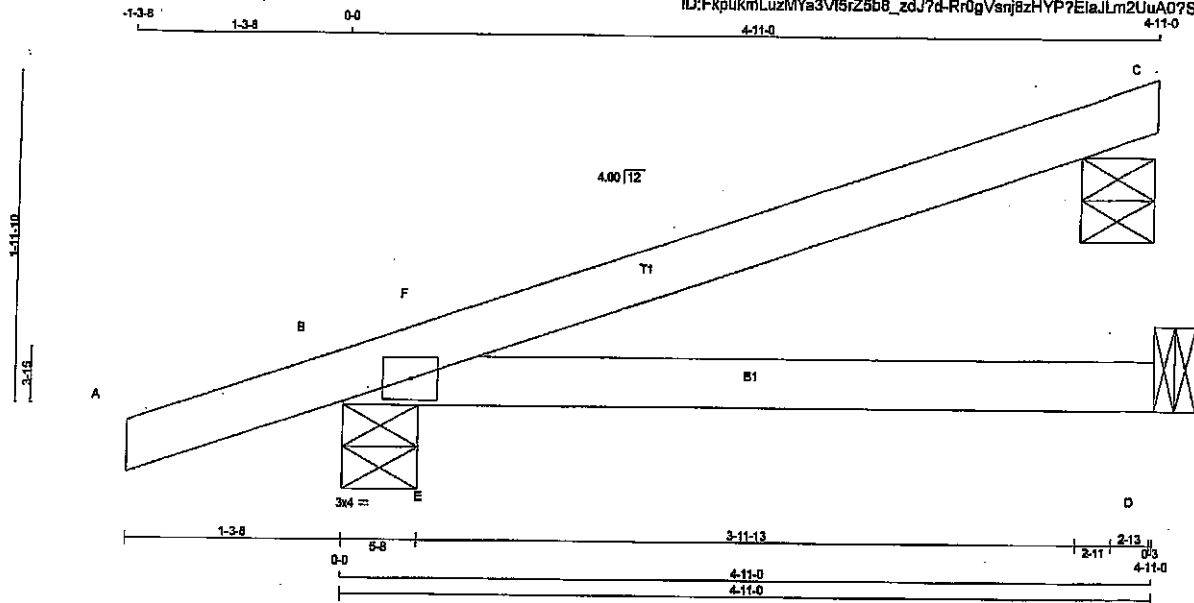


DWG NO. TAM 71905461  
STRUCTURAL  
CONSTRUCTION

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | J53        | 4        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 4 X 13 = 53 lb

#### 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 in inches)

| JT | TYPE   | PLATES | W   | LEN | Y | X |
|----|--------|--------|-----|-----|---|---|
| B  | TMB-14 | 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 |           |          |
| C  | 217                     | 0    | 217                             | 0    | 5-8       | 5-8      |
| B  | 433                     | 0    | 433                             | 0    | 5-8       | 5-8      |
| D  | 79                      | 0    | 79                              | 0    | 3-0       | 3-0      |

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

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) D

##### UNFACTORED REACTIONS

| JT | 1ST LCASE |         | MAX./MIN. COMPONENT REACTIONS |           | WIND  | DEAD   | SOIL  |
|----|-----------|---------|-------------------------------|-----------|-------|--------|-------|
|    | COMBINED  | SNOW    | LIVE                          | PERM.LIVE |       |        |       |
| C  | 150       | 120 / 0 | 0 / 0                         | 0 / 0     | 0 / 0 | 30 / 0 | 0 / 0 |
| B  | 302       | 220 / 0 | 0 / 0                         | 0 / 0     | 0 / 0 | 82 / 0 | 0 / 0 |
| D  | 59        | 23 / 0  | 0 / 0                         | 0 / 0     | 0 / 0 | 36 / 0 | 0 / 0 |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS  |       | FACTORED |          | WEBS          |       | FACTORED |          |
|-------|---------|-------|----------|----------|---------------|-------|----------|----------|
|       | MAX.    | FORCE | VERT.    | LOAD LC1 | MAX.          | MEMB. | MAX.     | FORCE    |
| FR-TO |         | (LBS) | (PLF)    | CS1 (LC) | UNBRAC LENGTH | FR-TO |          | (LBS)    |
| A-B   | 0 / 20  |       | -102.1   | -102.1   | 0.13 (1)      | 10.00 | E-F      | -272 / 9 |
| B-F   | -16 / 8 |       | -102.1   | -102.1   | 0.08 (4)      | 8.25  |          | 0.00 (1) |
| F-C   | 0 / 2   |       | -102.1   | -102.1   | 0.31 (1)      | 10.00 |          |          |
| B-E   | 0 / 0   |       | -18.5    | -18.5    | 0.23 (1)      | 10.00 |          |          |
| E-D   | 0 / 0   |       | -18.5    | -18.5    | 0.23 (1)      | 10.00 |          |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 42.4 PSF

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OBC 2012  
- CSA 088-08, CSA 088-14  
- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/998 (0.04")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/754 (0.08")

CS1: TC=0.31/1.00 (C-F:1), BC=0.23/1.00 (D-E:1),  
WB=0.00/1.00 (E-F:1), SS=0.22/1.00 (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.

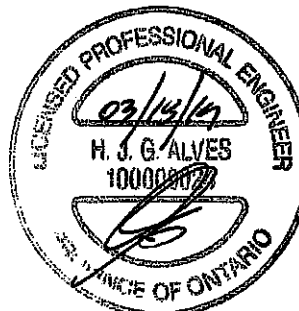
##### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR (PS) | SECTION (PL) | PLI       |
|-----------------|------------|--------------|-----------|
| MAX MIN         | MAX MIN    | MAX MIN      | MAX MIN   |
| MT20            | 618 354    | 1657 788     | 1987 1655 |

PLATE PLACEMENT TOL. = 0.250 inches

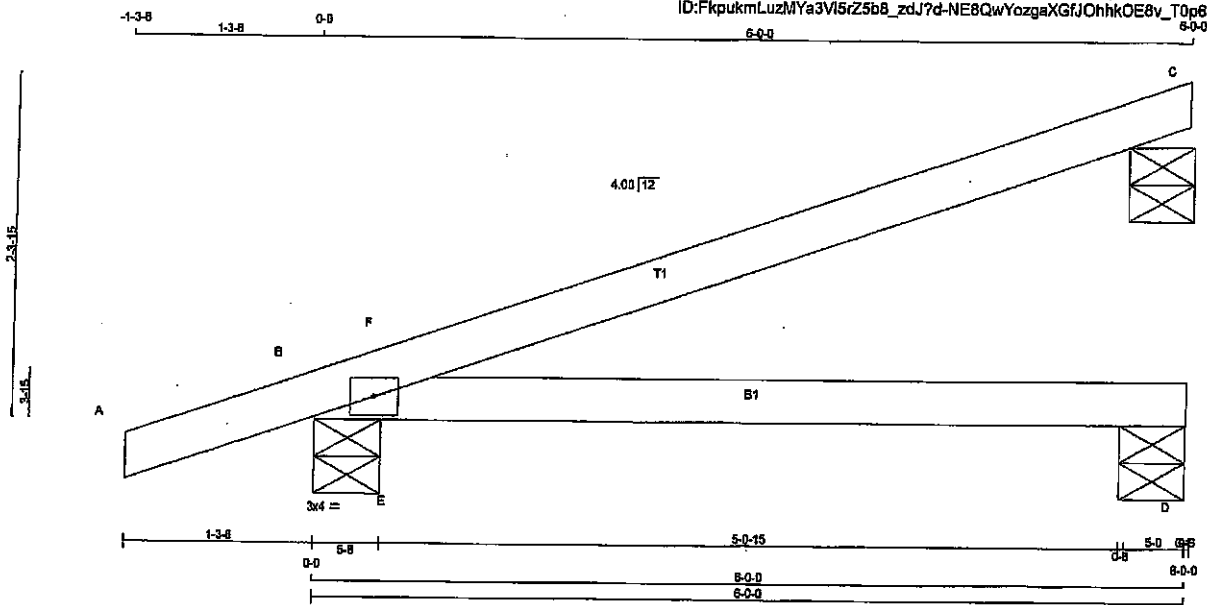
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.29 (B) (INPUT = 0.90 )  
JSI METAL = 0.08 (B) (INPUT = 1.00 )



DRWG NO. I AM 7403462  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | J54        | 8        | 1   | TRUSS DESC. |                  |          |



#### LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - C 2x4 DRY

B - D 2x4 DRY

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       |                | MAXIMUM FACTORED |                | INPUT     | REQD  |
|----|----------------|----------------|------------------|----------------|-----------|-------|
|    | GROSS REACTION | GROSS REACTION | GROSS REACTION   | GROSS REACTION |           |       |
|    | VERT           | HORZ           | DOWN             | HORZ           | BRG       | IN-SX |
| C  | 257            | 0              | 257              | 0              | 5-8 (5-2) | 5-8   |
| B  | 498            | 0              | 498              | 0              | 5-8       | 5-8   |
| D  | 95             | 0              | 95               | 0              | 5-8       | 5-8   |

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

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

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX. MIN. COMPONENT REACTIONS |       |       |           |        |       |
|----|-----------|-------------------------------|-------|-------|-----------|--------|-------|
|    |           | COMBINED                      | SNOW  | LIVE  | PERMALIVE | WIND   | DEAD  |
| C  | 184       | 147 / 0                       | 0 / 0 | 0 / 0 | 0 / 0     | 37 / 0 | 0 / 0 |
| B  | 348       | 252 / 0                       | 0 / 0 | 0 / 0 | 0 / 0     | 98 / 0 | 0 / 0 |
| D  | 71        | 27 / 0                        | 0 / 0 | 0 / 0 | 0 / 0     | 43 / 0 | 0 / 0 |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS        |               | WEBS          |          |
|-------|---------------|---------------|---------------|----------|
|       | MAX. FACTORED | FACTORED      | MAX. FACTORED | FACTORED |
|       | FORCE         | VERT. LOAD    | FORCE         | FORCE    |
|       | (LBS)         | (PLF)         | (LBS)         | (LBS)    |
| FR-TO |               | FROM TO       | LENGTH        | FR-TO    |
| A-B   | 0 / 20        | -102.1 -102.1 | 0.13 (1)      | 10.00    |
| B-F   | -20 / 26      | -102.1 -102.1 | 0.07 (4)      | 8.25     |
| F-C   | -3 / 2        | -102.1 -102.1 | 0.47 (1)      | 10.00    |
| B-E   | 0 / 0         | -18.5 -18.5   | 0.33 (1)      | 10.00    |
| E-D   | 0 / 0         | -18.5 -18.5   | 0.33 (1)      | 10.00    |

TOTAL WEIGHT = 8 X 16 = 128 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012

- CSA 088-09, CSA 088-14

- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.20")

CALCULATED VERT. DEFL.(LL) = 1/832 (0.09")

ALLOWABLE DEFL.(TL) = L/360 (0.20")

CALCULATED VERT. DEFL.(TL) = 1/424 (0.17")

CSI: TC=0.47/1.00 (C-F:1), BC=0.33/1.00 (D-E:1),  
WB=0.00/1.00 (E-F:1), SSI=0.32/1.00 (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 SECTION

(PSI) (PL) (PL)

MAX MIN MAX MIN MAX MIN

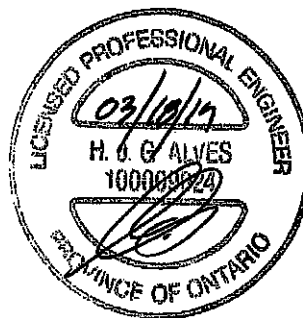
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.34 (B) (INPUT = 0.90)

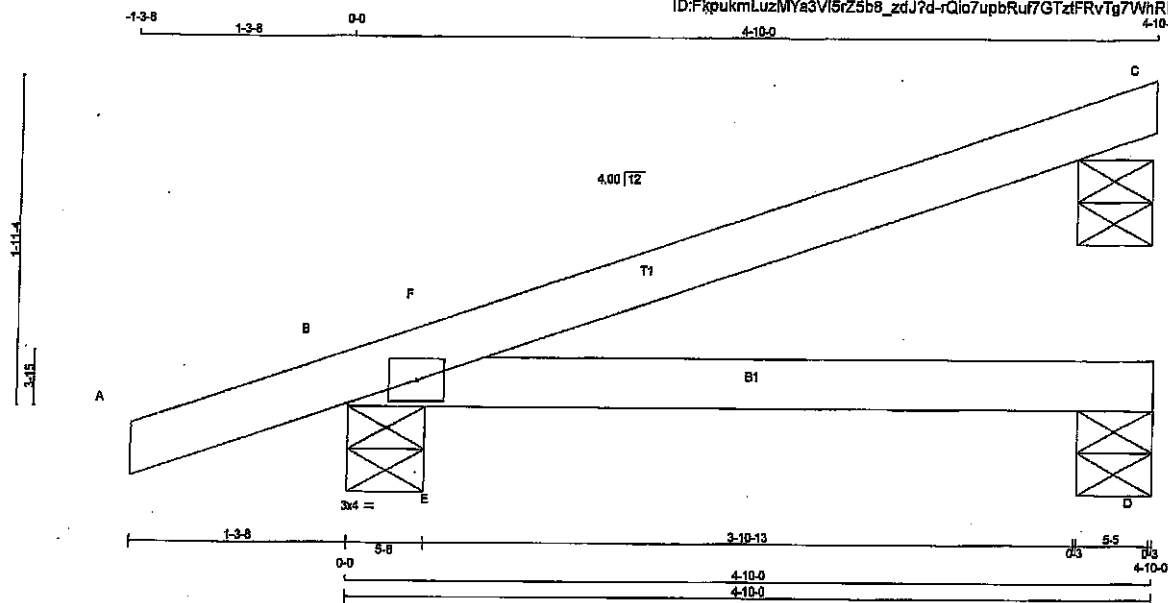
JSI METAL= 0.09 (B) (INPUT = 1.00)



DRWG NO. IAM 17405463  
STRUCTURAL  
COMPONENT ONLY

|                                 |                   |               |          |                               |          |
|---------------------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>401794              | TRUSS NAME<br>J55 | QUANTITY<br>6 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          |                               |          |

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TOTAL WEIGHT = 8 X 13 = 78 lb

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

DRY: SEASONED LUMBER.

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

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 |
|----------|-------------------------|---------------------------------|-----------|-----------|
|          | VERT                    | HORZ                            | DOWN      | HORZ      |
| JT       |                         |                                 |           |           |
| C        | 214                     | 0                               | 214       | 0         |
| B        | 428                     | 0                               | 428       | 0         |
| D        | 78                      | 0                               | 78        | 0         |

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

#### UNFACTORED REACTIONS

| 1ST LCASE | MAX/MIN COMPONENT REACTIONS |       |      |           |      |      |      |
|-----------|-----------------------------|-------|------|-----------|------|------|------|
| JT        | COMBINED                    | SNOW  | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| C         | 147                         | 118/0 | 0/0  | 0/0       | 0/0  | 30/0 | 0/0  |
| B         | 299                         | 218/0 | 0/0  | 0/0       | 0/0  | 61/0 | 0/0  |
| D         | 58                          | 23/0  | 0/0  | 0/0       | 0/0  | 35/0 | 0/0  |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED HORIZ. LOAD (LBS) | WEBS  | MAX. FACTORED FORCE (LBS) | MAX. FACTORED HORIZ. LOAD (LBS) |
|--------|---------------------------|---------------------------|--------------------------------|---------------------------------|-------|---------------------------|---------------------------------|
| MEMB.  |                           |                           |                                |                                 |       |                           |                                 |
| FR-TO  |                           |                           |                                |                                 |       |                           |                                 |
| A-B    | 0/20                      | -102.1                    | -102.1                         | 0.13 (1)                        | 10.00 | E-F                       | -264/8                          |
| B-F    | -15/5                     | -102.1                    | -102.1                         | 0.08 (4)                        | 6.25  |                           |                                 |
| F-C    | 0/2                       | -102.1                    | -102.1                         | 0.30 (1)                        | 10.00 |                           |                                 |
| B-E    | 0/0                       | -18.5                     | -18.5                          | 0.22 (1)                        | 10.00 |                           |                                 |
| E-D    | 0/0                       | -18.5                     | -18.5                          | 0.22 (1)                        | 10.00 |                           |                                 |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 28.0 PSF |
| DL         | = 6.0 PSF  |
| BOT CH. LL | = 0.0 PSF  |
| DL         | = 7.4 PSF  |
| TOTAL LOAD | = 42.4 PSF |

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2010, NBC 2012
- CSA 089-09, CSA 089-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.19")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.04")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.19")  
CALCULATED VERT. DEFL.(TL) =  $L/792$  (0.07")

CSI: TC=0.30/1.00 (C-F:1), BC=0.22/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SSI=0.21/1.00 (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.

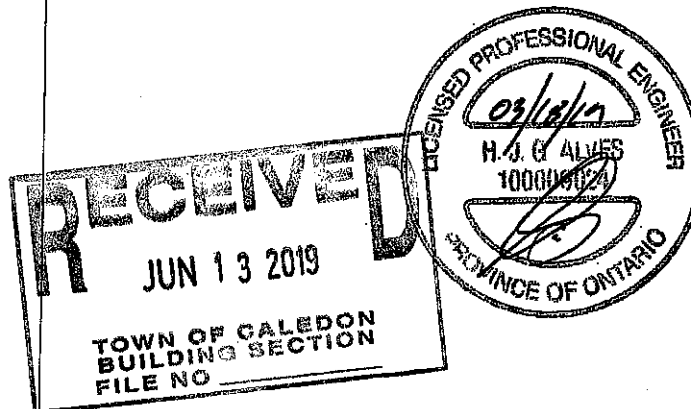
#### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PL) |
|-----------------|-------------|--------------|
| MT20            | 618         | 354          |
|                 | 1687        | 788          |
|                 | 1987        | 1656         |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.28 (B) (INPUT = 0.90)  
JSI METAL= 0.08 (B) (INPUT = 1.00)

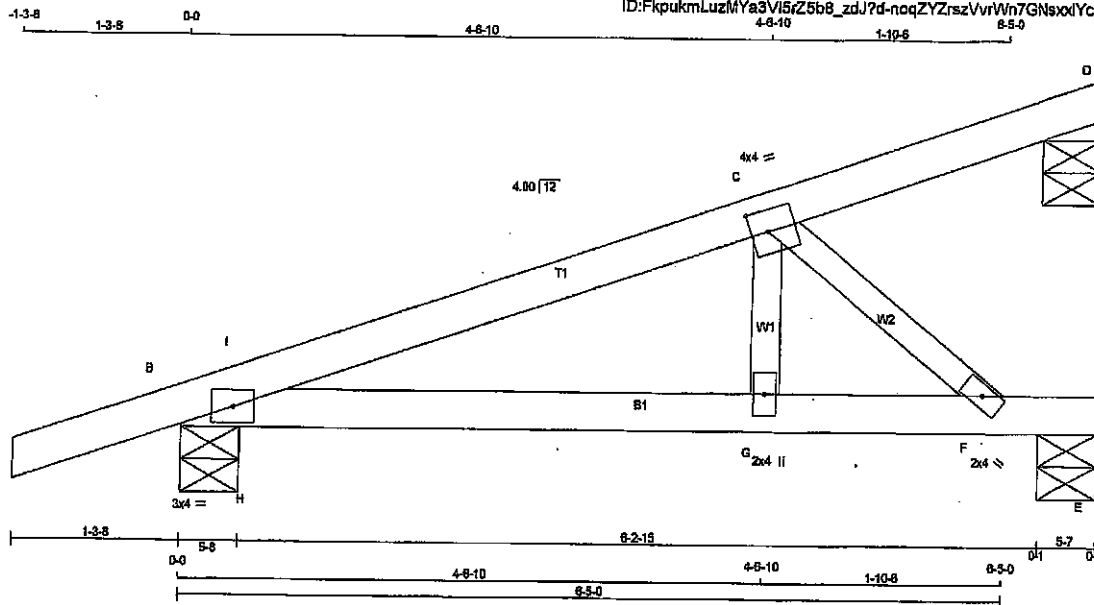


DWG NO. 11905464  
STRUCTURAL  
COMPONENT DRAW

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 401794   | J56        | 6        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1:16.4

#### LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - D 2x4 DRY

B - E 2x4 DRY

ALL WEBS 2x3 DRY

DRY: SEASONED LUMBER.

LUMBER

No.2

No.2

No.2

DESCR.

SPF

SPF

SPF

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMB1-I | MT20   | 3.0 | 4.0 |      |      |
| C  | TMBW-1 | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| F  | BMW+w  | MT20   | 2.0 | 4.0 |      |      |
| G  | BMW+w  | MT20   | 2.0 | 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 |
|----|-------------------------|---------------------------------|-----------|----------|
| B  | 569                     | 569                             | 5-8       | 5-8      |
| E  | 336                     | 336                             | 5-8       | 5-8      |
| D  | 96                      | 96                              | 5-8       | 5-8      |

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 |
|----|-----------|-------|------|-----------|------|-------|------|
| B  | 398       | 286/0 | 0/0  | 0/0       | 0/0  | 112/0 | 0/0  |
| E  | 238       | 154/0 | 0/0  | 0/0       | 0/0  | 94/0  | 0/0  |
| D  | 68        | 54/0  | 0/0  | 0/0       | 0/0  | 12/0  | 0/0  |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX | LC2 MAX  | UNBRACED LENGTH | WEBS MAX. FACTORED FORCE (LBS) | MAX    | CSI (LC) |
|-------|----------------------------------|---------------------------|---------|----------|-----------------|--------------------------------|--------|----------|
| FR-TO |                                  | FROM                      | TO      |          |                 | FR-TO                          |        |          |
| A-B   | 0/20                             | -102.1                    | -102.1  | 0.13 (1) | 10.00           | C-F                            | -808/0 | 0.14 (1) |
| B-I   | -828/0                           | -102.1                    | -102.1  | 0.03 (1) | 6.25            | G-C                            | 0/345  | 0.08 (1) |
| I-C   | -824/0                           | -102.1                    | -102.1  | 0.18 (1) | 8.25            | H-I                            | -216/0 | 0.00 (1) |
| C-D   | -12/0                            | -102.1                    | -102.1  | 0.11 (1) | 6.25            |                                |        |          |
| B-H   | 0/598                            | -18.5                     | -18.5   | 0.26 (1) | 10.00           |                                |        |          |
| H-G   | 0/598                            | -18.5                     | -18.5   | 0.26 (1) | 10.00           |                                |        |          |
| G-F   | 0/602                            | -18.5                     | -18.5   | 0.50 (1) | 10.00           |                                |        |          |
| F-E   | 0/0                              | -18.5                     | -18.5   | 0.41 (1) | 10.00           |                                |        |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|                       |               |
|-----------------------|---------------|
| TOP CH.               | LL = 28.0 PSF |
| DL = 8.0 PSF          |               |
| BOT CH.               | LL = 0.0 PSF  |
| DL = 7.4 PSF          |               |
| TOTAL LOAD = 42.4 PSF |               |

SPACING = 24.0 IN. G/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(65 % OF 37.6 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.24")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.03")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.24")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.05")

CSI: TC=0.18/1.00 (C-I:1), BC=0.50/1.00 (F-G:1), WB=0.14/1.00 (C-F:1), SH=0.26/1.00 (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)    | (PLI)     |
| MAX MIN | MAX MIN   | MAX MIN  | MAX MIN   |
| MT20    | 618 354   | 1687 788 | 1987 1658 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.70 (F) (INPUT = 0.90)  
JSI METAL= 0.43 (F) (INPUT = 1.00)



DRWG NO. TAM 71405465  
STRUCTURAL  
COMPONENT





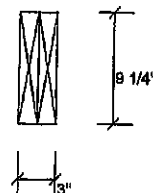
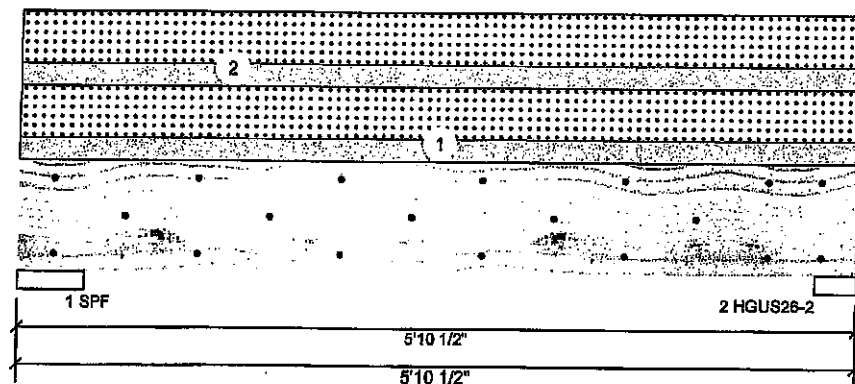
isDesign™

Client:  
Project:  
Address:Date: 3/18/2019  
Designer:  
Job Name: 401794  
Project #:

Page 1 of 12

**BM1 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

Level: Level

**Member Information**

Type: Girder  
Piles: 2  
Moisture Condition: Dry  
Deflection LL: 360  
Deflection TL: 360  
Importance: Normal

Application: Floor (Residential)  
Design Method: LSD  
Building Code: NBCC 2015 / OBC 2012  
Load Sharing: No  
Deck: Not Checked  
Vibration: Not Checked

**Unfactored Reactions UNPATTERNED lb (Uplift)**

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1   | 0    | 329  | 759  | 0    |
| 2   | 0    | 311  | 717  | 0    |

**Bearings and Factored Reactions**

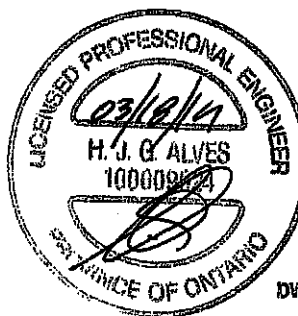
| Bearing     | Length | Cap. React D/L lb | Total Ld. Case | Ld. Comb. |
|-------------|--------|-------------------|----------------|-----------|
| 1 - SPF     | 5.500" | 15%               | 411 / 1138     | 1550 L    |
| 2 - HGUS... | 3.500" | 23%               | 388 / 1076     | 1464 L    |

**Analysis Results**

| Analysis      | Actual         | Location | Allowed       | Capacity    | Comb.      | Case    |
|---------------|----------------|----------|---------------|-------------|------------|---------|
| Moment        | 1767 ft-lb     | 3' 1/4"  | 6039 ft-lb    | 0.293 (29%) | 1.25D+1.5S | L       |
| Unbraced      | 1767 ft-lb     | 3' 1/4"  | 5223 ft-lb    | 0.338 (34%) | 1.25D+1.5S | L       |
| Shear         | 1347 lb        | 1'2"     | 3984 lb       | 0.338 (34%) | 1.25D+1.5S | L       |
| Perm Defl in. | 0.007 (L/9227) | 3' 1/4"  | 0.175 (L/360) | 0.040 (4%)  | D          | Uniform |
| LL Defl inch  | 0.016 (L/3998) | 3' 1/4"  | 0.175 (L/360) | 0.080 (9%)  | S          | L       |
| TL Defl inch  | 0.023 (L/2789) | 3' 1/4"  | 0.175 (L/360) | 0.130 (13%) | D+S        | L       |

**Design Notes**

- 1 Fasten all piles using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.



DWG NO. TAM 1905467  
STRUCTURAL  
COMPONENT ONLY 1/2

| ID | Load Type | Location | Trib Width | Side      | Dead   | Live  | Snow   | Wind  | Comments |
|----|-----------|----------|------------|-----------|--------|-------|--------|-------|----------|
| 1  | Uniform   |          | 1-0-0      | Far Face  | 13 PSF | 0 PSF | 30 PSF | 0 PSF |          |
| 2  | Uniform   |          | 7-4-8      | Near Face | 13 PSF | 0 PSF | 30 PSF | 0 PSF |          |

**Manufacturer Info**

Tamarack Roof Trusses  
3255 North Service Road, ON  
L7N 3G2  
905-335-1115



This design is valid until 12/11/2021





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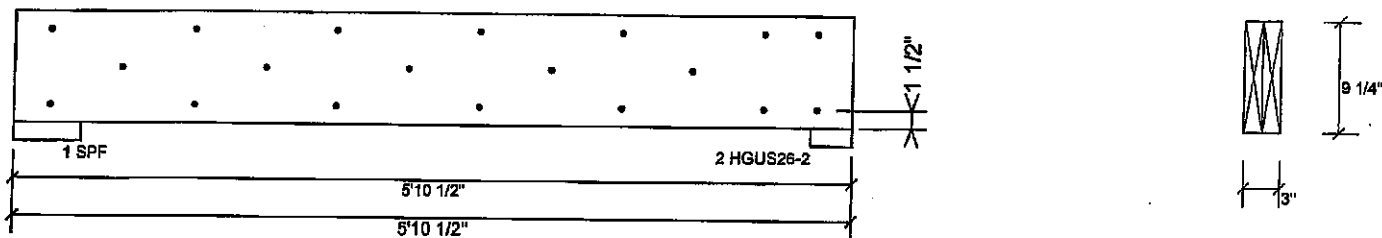
Client:  
Project:  
Address:

Date: 3/18/2019  
Designer:  
Job Name: 401794  
Project #:

Page 2 of 12

**BM1 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

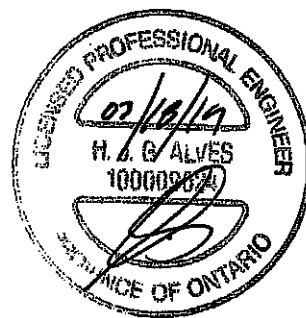
Level: Level



### Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c.. Maximum end distance not to exceed 6"

|                          |            |
|--------------------------|------------|
| Capacity                 | 68.4 %     |
| Load                     | 225.9 PLF  |
| Yield Limit per Foot     | 340.0 PLF  |
| Yield Limit per Fastener | 113.3 lb.  |
| Yield Mode               | g          |
| Edge Distance            | 1 1/2"     |
| Min. End Distance        | 3"         |
| Load Combination         | 1.25D+1.5S |
| Duration Factor          | 1.00       |



DWG NO. TAM 77905467  
STRUCTURAL  
COMPONENT ONLY 2/2

|                   |                                                                                 |
|-------------------|---------------------------------------------------------------------------------|
| Manufacturer info | Tamarack Roof Trusses<br>3255 North Service Road, ON<br>L7N 3G2<br>905-335-1115 |
|                   | <b>TAMARACK</b><br>LUMBER INC<br>ALFA LUMBER GROUP                              |

This design is valid until 12/11/2021





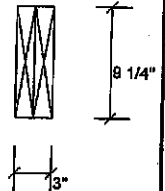
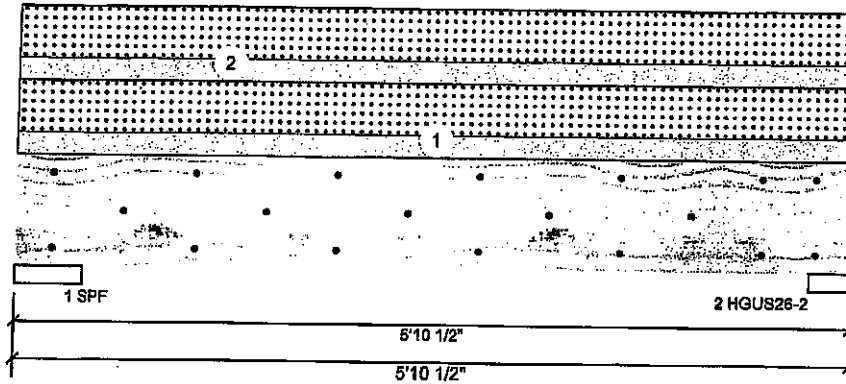
isDesign™

Client:  
Project:  
Address:Date: 3/18/2019  
Designer:  
Job Name: 401794  
Project #:

Page 3 of 12

**BM2 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

Level: Level

**Member Information**

Type: Girder  
Plies: 2  
Moisture Condition: Dry  
Deflection LL: 360  
Deflection TL: 360  
Importance: Normal

Application: Floor (Residential)  
Design Method: LSD  
Building Code: NBCC 2015 / OBC 2012  
Load Sharing: No  
Deck: Not Checked  
Vibration: Not Checked

**Unfactored Reactions UNPATTERNED lb (Uplift)**

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1   | 0    | 319  | 736  | 0    |
| 2   | 0    | 301  | 696  | 0    |

**Bearings and Factored Reactions**

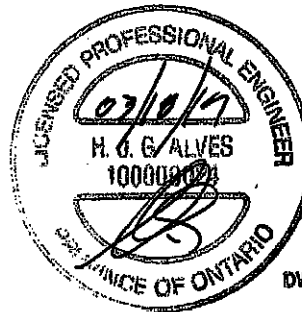
| Bearing     | Length | Cap. React D/L lb | Total Ld. Case | Ld. Comb.         |
|-------------|--------|-------------------|----------------|-------------------|
| 1 - SPF     | 5.500" | 15%               | 399 / 1104     | 1503 L 1.25D+1.5S |
| 2 - HGUS... | 3.500" | 22%               | 377 / 1044     | 1420 L 1.25D+1.5S |

**Analysis Results**

| Analysis      | Actual         | Location | Allowed       | Capacity    | Comb.      | Case    |
|---------------|----------------|----------|---------------|-------------|------------|---------|
| Moment        | 1715 ft-lb     | 3' 1/4"  | 6039 ft-lb    | 0.284 (28%) | 1.25D+1.5S | L       |
| Unbraced      | 1715 ft-lb     | 3' 1/4"  | 5223 ft-lb    | 0.328 (33%) | 1.25D+1.5S | L       |
| Shear         | 1308 lb        | 1'2"     | 3984 lb       | 0.328 (33%) | 1.25D+1.5S | L       |
| Perm Defl in. | 0.007 (L/9611) | 3' 1/4"  | 0.175 (L/360) | 0.040 (4%)  | D          | Uniform |
| LL Defl inch  | 0.015 (L/4121) | 3' 1/4"  | 0.175 (L/360) | 0.090 (8%)  | S          | L       |
| TL Defl inch  | 0.022 (L/2875) | 3' 1/4"  | 0.175 (L/360) | 0.130 (13%) | D+S        | L       |

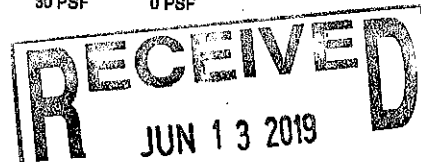
**Design Notes**

1. Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6".
2. Refer to last page of calculations for fasteners required for specified loads.
3. Girders are designed to be supported on the bottom edge only.
4. Top braced at bearings.
5. Bottom braced at bearings.
6. Lateral slenderness ratio based on single ply width.



DWG NO. TAM 71905468  
STRUCTURAL  
COMPONENT ONLY 1/2

| ID | Load Type | Location | Trib Width | Side      | Dead   | Live  | Snow   | Wind  | Comments |
|----|-----------|----------|------------|-----------|--------|-------|--------|-------|----------|
| 1  | Uniform   |          | 1-0-0      | Far Face  | 13 PSF | 0 PSF | 30 PSF | 0 PSF |          |
| 2  | Uniform   |          | 7-1-8      | Near Face | 13 PSF | 0 PSF | 30 PSF | 0 PSF |          |



Manufactured by TOWN OF CALEDON  
BUILDING SECTION  
FILE NO. Tamarack Roof Trusses  
3255 North Service Road, ON  
L4N 3G2  
905-335-1115



This design is valid until 12/11/2021





isDesign™

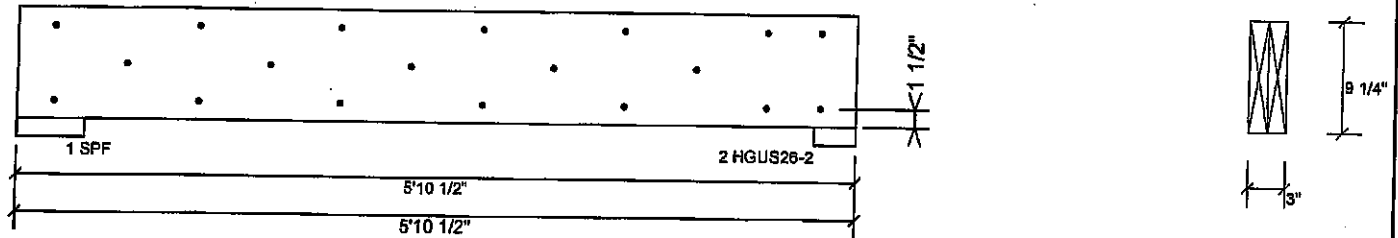
Client:  
Project:  
Address:

Date: 3/18/2019  
Designer:  
Job Name: 401794  
Project #:

Page 4 of 12

**BM2 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

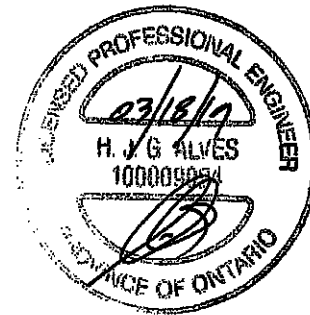
Level: Level



### Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c.. Maximum end distance not to exceed 6"

|                          |            |
|--------------------------|------------|
| Capacity                 | 64.2 %     |
| Load                     | 218.2 PLF  |
| Yield Limit per Foot     | 340.0 PLF  |
| Yield Limit per Fastener | 113.3 lb.  |
| Yield Mode               | g          |
| Edge Distance            | 1 1/2"     |
| Min. End Distance        | 3"         |
| Load Combination         | 1.25D+1.5S |
| Duration Factor          | 1.00       |



DWG NO. TAM 119052468  
STRUCTURAL  
COMPONENT ONLY 3/2

|                   |                                                                                 |
|-------------------|---------------------------------------------------------------------------------|
| Manufacturer Info | Tamarack Roof Trusses<br>3255 North Service Road, ON<br>L7N 3G2<br>905-335-1115 |
|                   | <b>TAMARACK</b><br>LUMBER INC<br>ALMA LUMBER GROUP                              |

This design is valid until 12/11/2021





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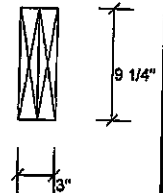
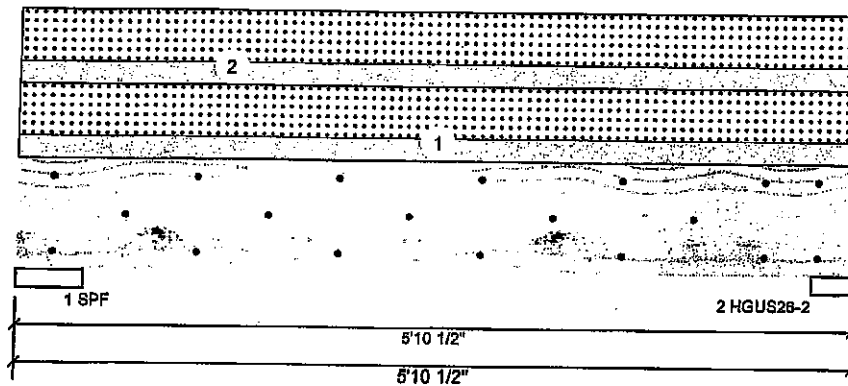
Client:  
Project:  
Address:

Date: 3/18/2019  
Designer:  
Job Name: 401794  
Project #:

Page 5 of 12

**BM3 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

Level: Level



### Member Information

Type: Girder  
Plies: 2  
Moisture Condition: Dry  
Deflection LL: 360  
Deflection TL: 360  
Importance: Normal

Application: Floor (Residential)  
Design Method: LSD  
Building Code: NBCC 2015 / OBC 2012  
Load Sharing: No  
Deck: Not Checked  
Vibration: Not Checked

### Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1   | 0    | 358  | 827  | 0    |
| 2   | 0    | 339  | 781  | 0    |

### Bearings and Factored Reactions

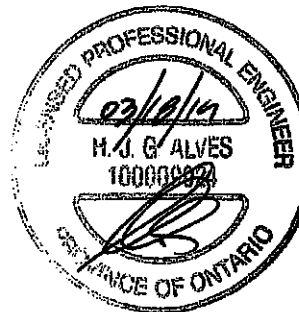
| Bearing     | Length | Cap. React D/L lb | Total      | Ld. Case | Ld. Comb.  |
|-------------|--------|-------------------|------------|----------|------------|
| 1 - SPF     | 5.500" | 17%               | 448 / 1240 | 1688 L   | 1.25D+1.5S |
| 2 - HGUS... | 3.500" | 25%               | 423 / 1172 | 1595 L   | 1.25D+1.5S |

### Analysis Results

| Analysis      | Actual         | Location | Allowed       | Capacity    | Comb.      | Case    |
|---------------|----------------|----------|---------------|-------------|------------|---------|
| Moment        | 1926 ft-lb     | 3' 1/4"  | 6039 ft-lb    | 0.319 (32%) | 1.25D+1.5S | L       |
| Unbraced      | 1926 ft-lb     | 3' 1/4"  | 6223 ft-lb    | 0.369 (37%) | 1.25D+1.5S | L       |
| Shear         | 1467 lb        | 1'2"     | 3984 lb       | 0.368 (37%) | 1.25D+1.5S | L       |
| Perm Defl in. | 0.007 (L/8488) | 3' 1/4"  | 0.175 (L/360) | 0.040 (4%)  | D          | Uniform |
| LL Defl inch  | 0.017 (L/3670) | 3' 1/4"  | 0.175 (L/360) | 0.100 (10%) | S          | L       |
| TL Defl inch  | 0.025 (L/2560) | 3' 1/4"  | 0.175 (L/360) | 0.140 (14%) | D+S        | L       |

### Design Notes

- 1 Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.



DWG NO. TAM 11905469  
STRUCTURAL  
COMPONENT FAMILY 1/1

| ID | Load Type | Location | Trib Width | Side      | Dead   | Live  | Snow   | Wind  | Comments |
|----|-----------|----------|------------|-----------|--------|-------|--------|-------|----------|
| 1  | Uniform   |          | 1-0-0      | Far Face  | 13 PSF | 0 PSF | 30 PSF | 0 PSF |          |
| 2  | Uniform   |          | 8-1-8      | Near Face | 13 PSF | 0 PSF | 30 PSF | 0 PSF |          |

**RECEIVED**  
JUN 13 2019

TOWN OF CALEDON  
BUILDING SECTION  
Tamarack Roof Trusses  
8255 North Service Road, ON  
L7N 3G2  
905-335-1115

Manufacturer Info

**TAMARACK**  
LUMBER INC  
ALUMINUM GROUP

This design is valid until 12/11/2021





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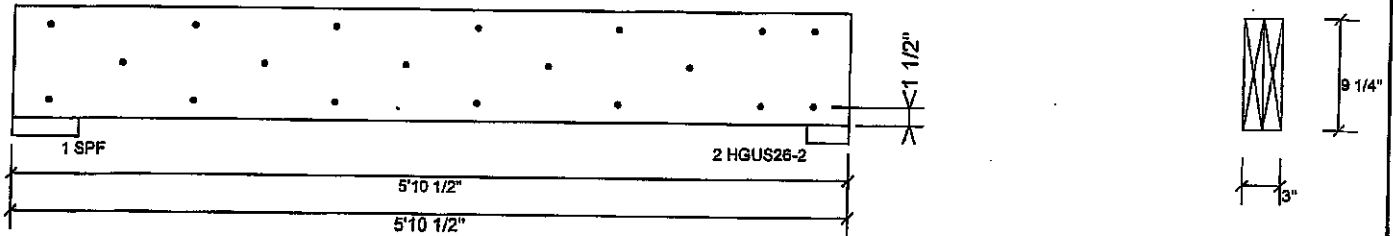
Client:  
Project:  
Address:

Date: 3/18/2019  
Designer:  
Job Name: 401794  
Project #:

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**BM3 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

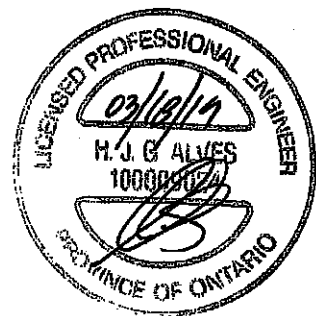
Level: Level



### Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c.. Maximum end distance not to exceed 6"

|                          |            |
|--------------------------|------------|
| Capacity                 | 73.2 %     |
| Load                     | 248.8 PLF  |
| Yield Limit per Foot     | 340.0 PLF  |
| Yield Limit per Fastener | 113.3 lb.  |
| Yield Mode               | g          |
| Edge Distance            | 1 1/2"     |
| Min. End Distance        | 3"         |
| Load Combination         | 1.25D+1.5S |
| Duration Factor          | 1.00       |



DWG NO. TAM 7905469  
STRUCTURAL  
COMPONENT ONLY 3/2

|                   |                                                                                 |
|-------------------|---------------------------------------------------------------------------------|
| Manufacturer Info | Tamarack Roof Trusses<br>3255 North Service Road, ON<br>L7N 3G2<br>905-335-1115 |
|                   | <b>TAMARACK</b><br>LUMBER INC<br>ALMA LUMBER GROUP                              |

This design is valid until: 12/11/2021





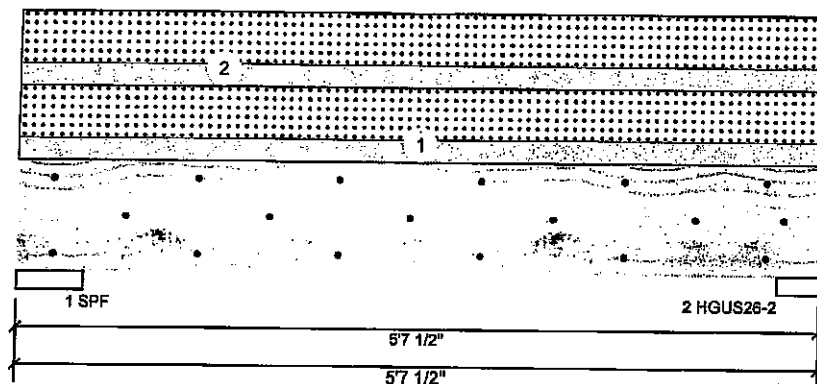
isDesign™

Client:  
Project:  
Address:Date: 3/18/2019  
Designer:  
Job Name: 401794  
Project #:

Page 7 of 12

**BM4 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

Level: Level

**Member Information**

Type: Girder  
Plies: 2  
Moisture Condition: Dry  
Deflection LL: 360  
Deflection TL: 360  
Importance: Normal

Application: Floor (Residential)  
Design Method: LSD  
Building Code: NBCC 2015 / OBC 2012  
Load Sharing: No  
Deck: Not Checked  
Vibration: Not Checked

**Unfactored Reactions UNPATTERNED lb (Uplift)**

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1   | 0    | 230  | 530  | 0    |
| 2   | 0    | 217  | 500  | 0    |

**Bearings and Factored Reactions**

| Bearing     | Length | Cap. React D/L lb | Total Ld. Case | Ld. Comb.         |
|-------------|--------|-------------------|----------------|-------------------|
| 1 - SPF     | 5.500" | 11%               | 287 / 795      | 1083 L 1.25D+1.5S |
| 2 - HGUS... | 3.500" | 16%               | 271 / 750      | 1020 L 1.25D+1.5S |

**Analysis Results**

| Analysis                | Actual     | Location  | Allowed       | Capacity    | Comb.      | Case    |
|-------------------------|------------|-----------|---------------|-------------|------------|---------|
| Moment                  | 1168 ft-lb | 2'10 3/4" | 6039 ft-lb    | 0.193 (19%) | 1.25D+1.5S | L       |
| Unbraced                | 1168 ft-lb | 2'10 3/4" | 5299 ft-lb    | 0.221 (22%) | 1.25D+1.5S | L       |
| Shear                   | 935 lb     | 1'2"      | 3984 lb       | 0.235 (23%) | 1.25D+1.5S | L       |
| Perm Defl in. (L/14665) | 0.004      | 2'10 3/4" | 0.167 (L/360) | 0.020 (2%)  | D          | Uniform |
| LL Defl inch (L/6350)   | 0.009      | 2'10 3/4" | 0.167 (L/360) | 0.060 (6%)  | S          | L       |
| TL Defl inch (L/4430)   | 0.014      | 2'10 3/4" | 0.167 (L/360) | 0.080 (8%)  | D+S        | L       |

**Design Notes**

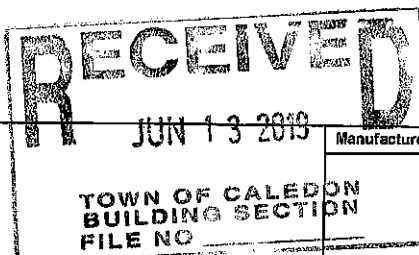
- 1 Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.



DWG NO. TAM 7905470  
STRUCTURAL  
COMPONENT ONLY

1/2

| ID | Load Type | Location | Trib Width | Side      | Dead   | Live  | Snow   | Wind  | Comments |
|----|-----------|----------|------------|-----------|--------|-------|--------|-------|----------|
| 1  | Uniform   |          | 1-0-0      | Far Face  | 13 PSF | 0 PSF | 30 PSF | 0 PSF |          |
| 2  | Uniform   |          | 5-1-4      | Near Face | 13 PSF | 0 PSF | 30 PSF | 0 PSF |          |



Manufacturer Info

Tamarack Roof Trusses  
3255 North Service Road, ON  
L7N 3G2  
905-336-1115



This design is valid until 12/11/2021





isDesign™

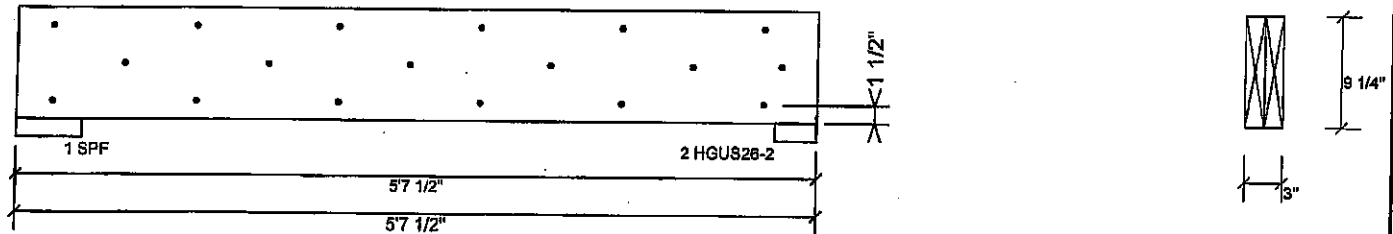
Client:  
Project:  
Address:

Date: 3/18/2019  
Designer:  
Job Name: 401794  
Project #:

Page 8 of 12

**BM4 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

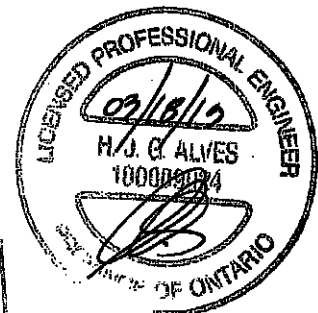
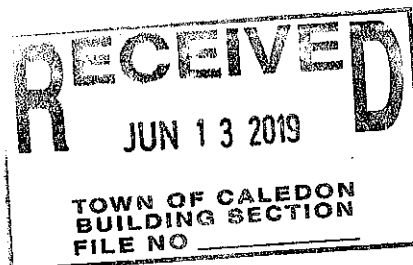
Level: Level



### Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6"

|                          |            |
|--------------------------|------------|
| Capacity                 | 46.0 %     |
| Load                     | 196.3 PLF  |
| Yield Limit per Foot     | 340.0 PLF  |
| Yield Limit per Fastener | 113.3 lb.  |
| Yield Mode               | 0          |
| Edge Distance            | 1 1/2"     |
| Min. End Distance        | 3"         |
| Load Combination         | 1.25D+1.5S |
| Duration Factor          | 1.00       |



DWG NO. 1461 19405470  
STRUCTURAL  
COMPONENT ONLY 3/2

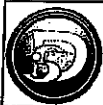
#### Manufacturer Info

Tamarack Roof Trusses  
3255 North Service Road, ON  
L7N 3G2  
905-335-1115



This design is valid until 12/11/2021





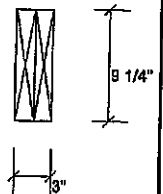
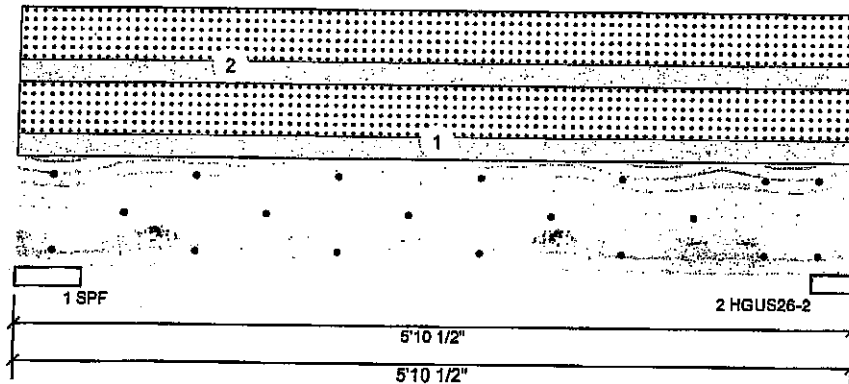
isDesign™

Client:  
Project:  
Address:Date: 3/18/2019  
Designer:  
Job Name: 401794  
Project #:

Page 9 of 12

**BM5 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

Level: Level

**Member Information**

|                     |        |                |                      |
|---------------------|--------|----------------|----------------------|
| Type:               | Girder | Application:   | Floor (Residential)  |
| Piles:              | 2      | Design Method: | LSD                  |
| Moisture Condition: | Dry    | Building Code: | NBCC 2015 / OBC 2012 |
| Deflection LL:      | 360    | Load Sharing:  | No                   |
| Deflection TL:      | 360    | Deck:          | Not Checked          |
| Importance:         | Normal | Vibration:     | Not Checked          |

**Unfactored Reactions UNPATTERNED lb (Uplift)**

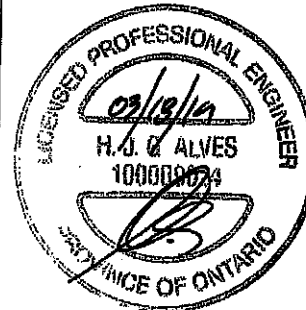
| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1   | 0    | 247  | 570  | 0    |
| 2   | 0    | 233  | 539  | 0    |

**Bearings and Factored Reactions**

| Bearing     | Length | Cap. React | D/L lb    | Total Ld. Case | Ld. Comb.  |
|-------------|--------|------------|-----------|----------------|------------|
| 1 - SPF     | 5.500" | 11%        | 309 / 855 | 1164 L         | 1.25D+1.5S |
| 2 - HGUS... | 3.600" | 17%        | 292 / 808 | 1100 L         | 1.25D+1.5S |

**Analysis Results**

| Analysis      | Actual          | Location | Allowed       | Capacity    | Comb.      | Case    |
|---------------|-----------------|----------|---------------|-------------|------------|---------|
| Moment        | 1328 ft-lb      | 3' 1/4"  | 8039 ft-lb    | 0.220 (22%) | 1.25D+1.5S | L       |
| Unbraced      | 1328 ft-lb      | 3' 1/4"  | 5223 ft-lb    | 0.254 (25%) | 1.25D+1.5S | L       |
| Shear         | 1012 lb         | 1'2"     | 3984 lb       | 0.254 (25%) | 1.25D+1.5S | L       |
| Perm Defl in. | 0.005 (L/12282) | 3' 1/4"  | 0.175 (L/360) | 0.030 (3%)  | D          | Uniform |
| LL Defl inch  | 0.012 (L/5322)  | 3' 1/4"  | 0.175 (L/360) | 0.070 (7%)  | S          | L       |
| TL Defl inch  | 0.017 (L/3713)  | 3' 1/4"  | 0.175 (L/360) | 0.100 (10%) | D+S        | L       |

**Design Notes**

- 1 Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.

DWG NO. TAM 71905471  
STRUCTURAL  
COMPONENT ONLY

1/2

| ID | Load Type | Location | Trib Width | Side      | Dead   | Live  | Snow   | Wind  | Comments |
|----|-----------|----------|------------|-----------|--------|-------|--------|-------|----------|
| 1  | Uniform   |          | 1-0-0      | Far Face  | 13 PSF | 0 PSF | 30 PSF | 0 PSF |          |
| 2  | Uniform   |          | 5-3-8      | Near Face | 13 PSF | 0 PSF | 30 PSF | 0 PSF |          |

**Manufacturer Info**Tamarack Roof Trusses  
3255 North Service Road, ON  
L7N 3G2  
905-335-1115

This design is valid until 12/11/2021





isDesign™

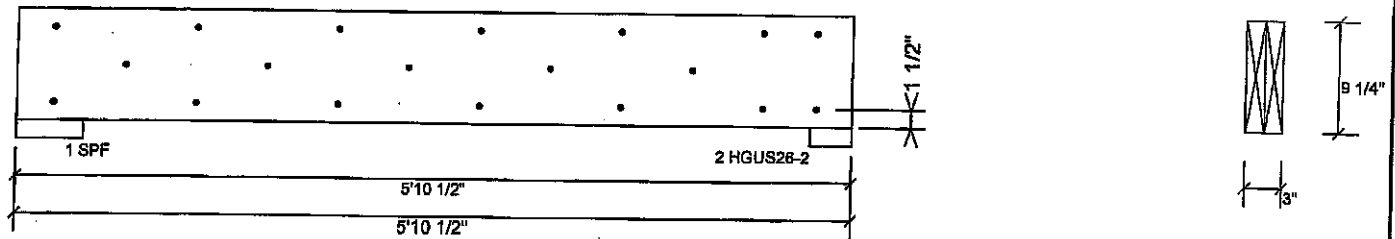
Client:  
Project:  
Address:

Date: 3/18/2019  
Designer:  
Job Name: 401794  
Project #:

Page 10 of 12

**BM5 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

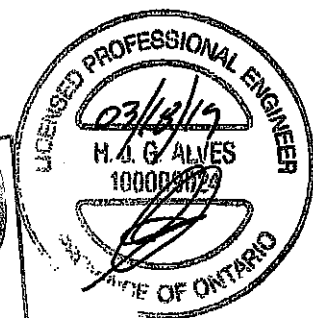
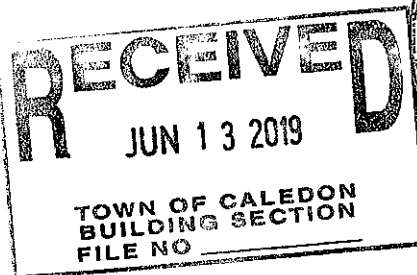
Level: Level



### Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c.. Maximum end distance not to exceed 6"

|                          |            |
|--------------------------|------------|
| Capacity                 | 47.7 %     |
| Load                     | 162.1 PLF  |
| Yield Limit per Foot     | 340.0 PLF  |
| Yield Limit per Fastener | 113.3 lb.  |
| Yield Mode               | g          |
| Edge Distance            | 1 1/2"     |
| Min. End Distance        | 3"         |
| Load Combination         | 1.25D+1.5S |
| Duration Factor          | 1.00       |



DWG NO. TAM 11905471  
STRUCTURAL  
COMPONENT ONLY

#### Manufacturer Info

Tamarack Roof Trusses  
3255 North Service Road, ON  
L7N 3G2  
905-335-1115



This design is valid until 12/11/2021



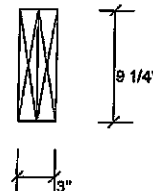
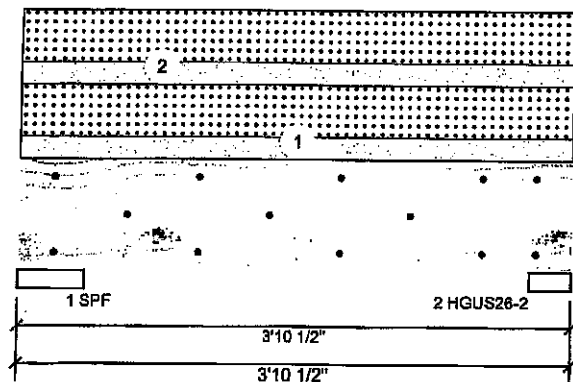
isDesign™

Client:  
Project:  
Address:Date: 3/18/2019  
Designer:  
Job Name: 401794  
Project #:

Page 11 of 12

**BM6 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

Level: Level

**Member Information**

Type: Girder  
 Plies: 2  
 Moisture Condition: Dry  
 Deflection LL: 360  
 Deflection TL: 360  
 Importance: Normal

Application: Floor (Residential)  
 Design Method: LSD  
 Building Code: NBCC 2015 / OBC 2012  
 Load Sharing: No  
 Deck: Not Checked  
 Vibration: Not Checked

**Unfactored Reactions UNPATTERNED lb (Uplift)**

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1   | 0    | 165  | 381  | 0    |
| 2   | 0    | 152  | 350  | 0    |

**Bearings and Factored Reactions**

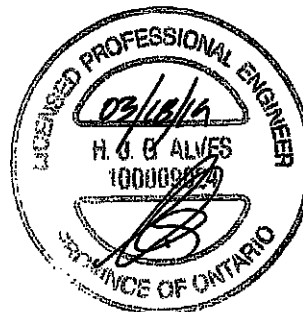
| Bearing     | Length | Cap. React | D/L lb    | Total Ld. Case | Ld. Comb.  |
|-------------|--------|------------|-----------|----------------|------------|
| 1 - SPF     | 5.500" | 8%         | 207 / 572 | 779 L          | 1.25D+1.5S |
| 2 - HGUS... | 3.500" | 11%        | 190 / 525 | 715 L          | 1.25D+1.5S |

**Analysis Results**

| Analysis      | Actual          | Location | Allowed       | Capacity    | Comb.      | Case    |
|---------------|-----------------|----------|---------------|-------------|------------|---------|
| Moment        | 509 ft-lb       | 2' 1/4"  | 6039 ft-lb    | 0.084 (8%)  | 1.25D+1.5S | L       |
| Unbraced      | 509 ft-lb       | 2' 1/4"  | 5726 ft-lb    | 0.089 (9%)  | 1.25D+1.5S | L       |
| Shear         | 626 lb          | 1'2"     | 3984 lb       | 0.157 (16%) | 1.25D+1.5S | L       |
| Perm Defl in. | 0.001 (L/51772) | 2' 1/4"  | 0.108 (L/360) | 0.010 (1%)  | D          | Uniform |
| LL Defl inch  | 0.002 (L/22435) | 2' 1/4"  | 0.108 (L/360) | 0.020 (2%)  | S          | L       |
| TL Defl inch  | 0.002 (L/15652) | 2' 1/4"  | 0.108 (L/360) | 0.020 (2%)  | D+S        | L       |

**Design Notes**

- 1 Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.



DWG NO. TAM 1905472  
 STRUCTURAL  
 COMPONENT ONLY

42

| ID | Load Type | Location | Trib Width | Side      | Dead   | Live  | Snow   | Wind  | Comments |
|----|-----------|----------|------------|-----------|--------|-------|--------|-------|----------|
| 1  | Uniform   |          | 1-0-0      | Far Face  | 13 PSF | 0 PSF | 30 PSF | 0 PSF |          |
| 2  | Uniform   |          | 5-3-8      | Near Face | 13 PSF | 0 PSF | 30 PSF | 0 PSF |          |

**Manufacturer Info**

Tamarack Roof Trusses  
 3255 North Service Road, ON  
 L7N 3G2  
 905-335-1115



This design is valid until 12/11/2021





isDesign™

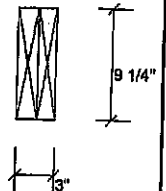
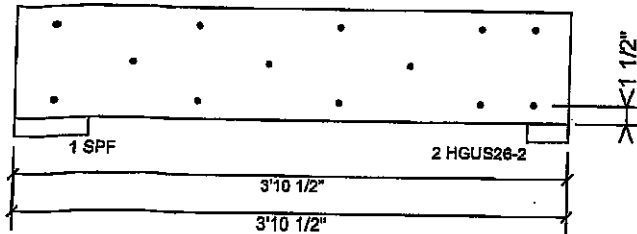
Client:  
Project:  
Address:

Date: 3/18/2019  
Designer:  
Job Name: 401794  
Project #:

Page 12 of 12

**BM6 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

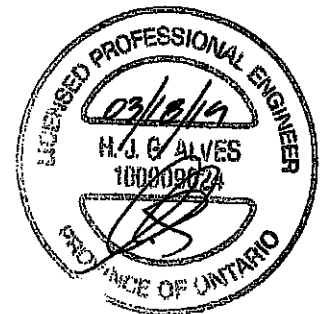
Level: Level



### Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c.. Maximum end distance not to exceed 6"

|                          |            |
|--------------------------|------------|
| Capacity                 | 47.7 %     |
| Load                     | 162.1 PLF  |
| Yield Limit per Foot     | 340.0 PLF  |
| Yield Limit per Fastener | 113.3 lb.  |
| Yield Mode               | 9          |
| Edge Distance            | 1 1/2"     |
| Min. End Distance        | 3"         |
| Load Combination         | 1.25D+1.5S |
| Duration Factor          | 1.00       |



DWG NO. TAM 71905472  
STRUCTURAL  
COMPONENT ONLY 3/2

|                   |                                                                                 |
|-------------------|---------------------------------------------------------------------------------|
| Manufacturer Info | Tamarack Roof Trusses<br>3255 North Service Road, ON<br>L7N 3G2<br>905-335-1115 |
|                   | <b>TAMARACK</b><br>LUMBER INC<br>ALUMINUM GROUP                                 |

This design is valid until 12/11/2021



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

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

## Standard and Double-Shear Joist Hangers



This product is preferable to similar connectors because of  
a) easier installation, b) higher capacities, c) lower installed  
cost, or a combination of these features.

Most hangers in this series have double-shear nailing — an innovation that distributes the load through two points on each joist nail for greater strength. This allows for fewer nails, faster installation, and the use of all common nails for the same connection. (Do not bend or remove tabs)

Double-shear hangers range from the light capacity LUS hangers to the highest capacity HGUS hangers. For medium load truss applications, the HUS offers a lower cost alternative and easier installation than the HGUS hangers, while providing greater load capacity and bearing than the LUS.

Material: See table on pp. 258-259.

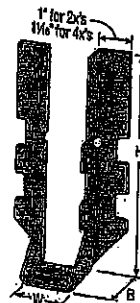
Finish: Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 20-24.

### Installation:

- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for welded or nailer applications.
- With single ply 2x carrying members, use 10d x 1½" nails into the header and 10d commons into the joist, and reduce the resistance to 0.64 of the table value where 16d nails are specified and 0.77 where 10d nails are specified.

### Options:

- LJS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on p. 126.



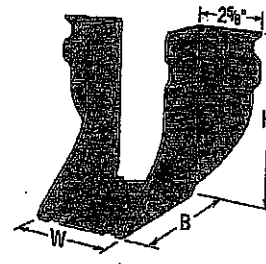
**LUS28**



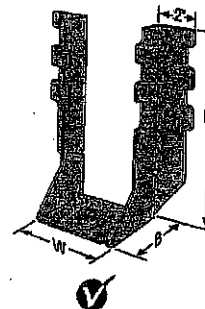
**LU26L**



**HUS210**  
(HUS26, HUS28,  
and HHUS similar)



**HGUS28-2**



**HHUS210-2**



Double-Shear  
Nailing  
Top View

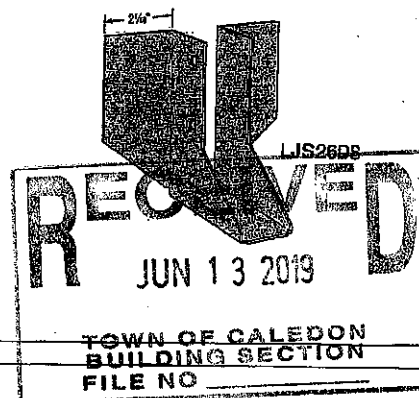
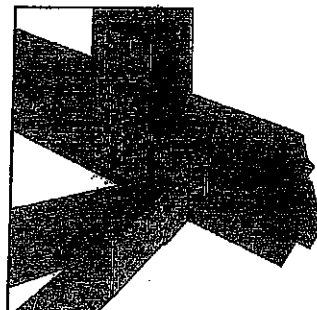


Double-Shear  
Nailing  
Side View;  
Do not  
bend tab



Dome Double-Shear  
Nailing Side View  
(available on  
some models)  
U.S. Patent 5,603,560

Typical HUS26  
Installation  
with Reduced  
Heel Height  
(Truss Designer  
to provide  
fastener quantity  
for connecting  
multiple members  
together)



Plated Truss Connectors

**LUL/LUS/LJS/HUS/HHUS/HGUS****HHUS/HGUS**

See Hanger Options Information on pp. 125–127.

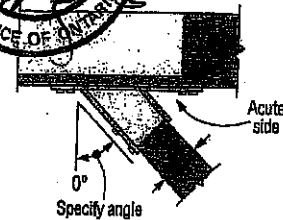
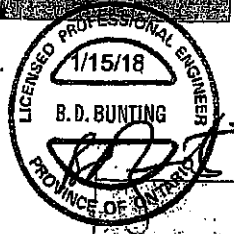
**HHUS — Sloped and/or Skewed Seat**

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

**HGUS — Skewed Seat**

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

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



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

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

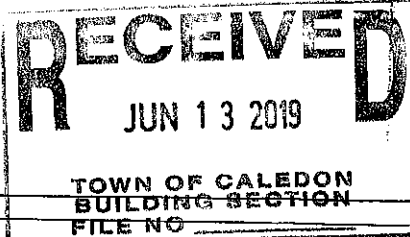
These products are available with additional corrosion protection. For more information, see p. 24.

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

| Model No.       | Ga. | Dimensions (in.) |       |       |       |          | Fasteners        |       | Factored Resistance |                    |                    |  |
|-----------------|-----|------------------|-------|-------|-------|----------|------------------|-------|---------------------|--------------------|--------------------|--|
|                 |     | W                | N     | B     | dg*   | Header   | Joist            | Down  |                     | Uplift             |                    |  |
|                 |     |                  |       |       |       |          |                  | lb.   | lb.                 | (Kd = 1.15)<br>lb. | (Kd = 1.00)<br>lb. |  |
|                 |     |                  |       |       |       |          |                  | kip   | kip                 | kip                | kip                |  |
| Single 2x Sizes |     |                  |       |       |       |          |                  |       |                     |                    |                    |  |
| LUS24           | 18  | 1 1/8            | 3 1/4 | 1 1/4 | 2 1/4 | (4) 10d  | (2) 10d          | 710   | 1625                | 645                | 1155               |  |
|                 |     |                  |       |       |       |          |                  | 380   | 1020                | 320                | 725                |  |
|                 |     |                  |       |       |       |          |                  | 720   | 1605                | 645                | 1140               |  |
| LU24L           | 22  | 1 1/8            | 3     | 1 1/4 | 2 1/8 | (4) 10d  | (2) 10d x 1 1/2" | 1420  | 2170                | 1290               | 1630               |  |
|                 |     |                  |       |       |       |          |                  | 2705  | 4940                | 2065               | 3875               |  |
|                 |     |                  |       |       |       |          |                  | 2055  | 4265                | 1460               | 4115               |  |
| LU28L           | 22  | 1 1/8            | 6     | 1 1/4 | 4 1/4 | (6) 10d  | (4) 10d x 1 1/2" | 2885  | 6625                | 2685               | 5700               |  |
|                 |     |                  |       |       |       |          |                  | 1140  | 2185                | 1020               | 1550               |  |
|                 |     |                  |       |       |       |          |                  | 1420  | 2520                | 1290               | 1790               |  |
| LUS28           | 18  | 1 1/8            | 4 1/4 | 1 1/4 | 3 1/4 | (4) 10d  | (4) 10d          | 3605  | 5365                | 2875               | 4345               |  |
|                 |     |                  |       |       |       |          |                  | 3310  | 7675                | 3310               | 6900               |  |
|                 |     |                  |       |       |       |          |                  | 1140  | 2485                | 1020               | 1770               |  |
| HUS28           | 16  | 1 1/8            | 7 1/4 | 3     | 6 1/8 | (22) 10d | (8) 10d          | 1420  | 2785                | 1290               | 2210               |  |
|                 |     |                  |       |       |       |          |                  | 574   | 1130                | 454                | 787                |  |
|                 |     |                  |       |       |       |          |                  | 645   | 1239                | 574                | 983                |  |
| HGUS28          | 12  | 1 1/8            | 7 1/4 | 5     | 6 1/4 | (36) 10d | (12) 10d         | 3310  | 7675                | 3310               | 6900               |  |
|                 |     |                  |       |       |       |          |                  | 14.74 | 30.73               |                    |                    |  |
|                 |     |                  |       |       |       |          |                  | 1140  | 2485                | 1020               | 1770               |  |
| LU210L          | 20  | 1 1/8            | 8     | 1 1/4 | 7 1/4 | (10) 10d | (6) 10d x 1 1/2" | 1140  | 2485                | 1020               | 1770               |  |
|                 |     |                  |       |       |       |          |                  | 574   | 1130                | 454                | 787                |  |
|                 |     |                  |       |       |       |          |                  | 645   | 1239                | 574                | 983                |  |
| LUS210          | 18  | 1 1/8            | 7 1/4 | 1 1/4 | 3 1/4 | (8) 10d  | (4) 10d          | 1420  | 2785                | 1290               | 2210               |  |
|                 |     |                  |       |       |       |          |                  | 574   | 1130                | 454                | 787                |  |
|                 |     |                  |       |       |       |          |                  | 645   | 1239                | 574                | 983                |  |

1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.
2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.
3.  $d_g$  is the distance from the bearing seat to the top joist nail.
4. Resistances shown require a minimum 2-ply girder truss. For fastening to single-ply truss request technical bulletin T-C-N10TRSSCN and/or see installation notes.
5. Nails: 10d = 0.162" dia. x 3 1/4" long. See pp. 27–28 for other nail sizes and information.

C-C-0402018 ©2017 SIMPSON STRONG-TIE COMPANY INC.



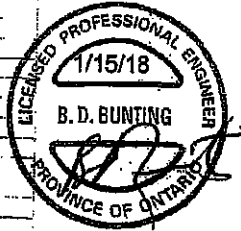
## Face-Mount Hangers

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

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

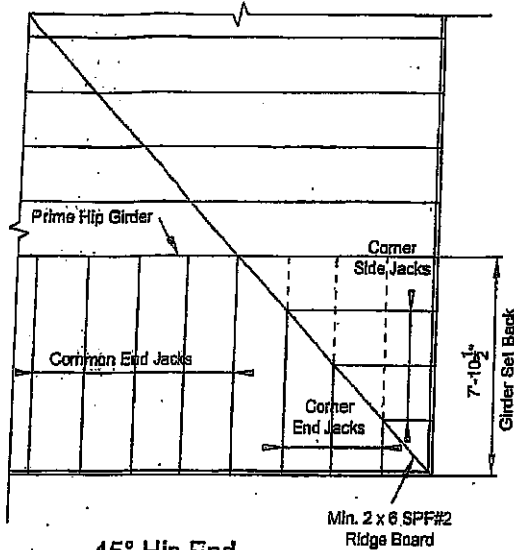
These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

| Model No.          | Gal. | Dimensions (in.) |        |   |                | Fasteners |          | Factored Resistance |       |                         |                         |
|--------------------|------|------------------|--------|---|----------------|-----------|----------|---------------------|-------|-------------------------|-------------------------|
|                    |      | W                | H      | B | d <sub>g</sub> | Header    | Joist    | D-F                 |       | S-P-F                   |                         |
|                    |      |                  |        |   |                |           |          | Min.                | Max.  | Uplift                  | Normal                  |
|                    |      |                  |        |   |                |           |          | lb.                 | lb.   | (K <sub>g</sub> = 1.1k) | (K <sub>g</sub> = 1.0k) |
|                    |      |                  |        |   |                |           |          | lb.                 | lb.   | lb.                     | lb.                     |
|                    |      |                  |        |   |                |           |          | kN                  | kN    | kN                      | kN                      |
| Double 2x Sizes    |      |                  |        |   |                |           |          |                     |       |                         |                         |
| LUS24-2            | 18   | 3 1/4            | 3 1/4  | 2 | 1 1/4          | (4) 16d   | (2) 16d  | 835                 | 2020  | 590                     | 1435                    |
| SS LUS26-2         | 18   | 3 1/4            | 4 1/4  | 2 | 4              | (4) 16d   | (4) 16d  | 1720                | 2595  | 1545                    | 1920                    |
| HHUS26-2           | 14   | 3 1/4            | 5 1/4  | 3 | 3 1/4          | (14) 16d  | (5) 16d  | 2850                | 7335  | 2065                    | 5205                    |
| HGUS26-2           | 12   | 3 1/4            | 5 1/4  | 4 | 4 1/4          | (20) 16d  | (8) 16d  | 4385                | 8950  | 3110                    | 6355                    |
| SS LUS28-2         | 18   | 3 1/4            | 7      | 2 | 4              | (8) 16d   | (4) 16d  | 1720                | 3325  | 1545                    | 2575                    |
| HHUS28-2           | 14   | 3 1/4            | 7 1/4  | 3 | 6 1/4          | (22) 16d  | (8) 16d  | 3765                | 8940  | 2675                    | 6345                    |
| HGUS28-2           | 12   | 3 1/4            | 7 1/4  | 4 | 6 1/4          | (30) 16d  | (12) 16d | 6070                | 12980 | 4310                    | 9215                    |
| SS LUS210-2        | 18   | 3 1/4            | 9      | 2 | 6              | (8) 16d   | (5) 16d  | 2580                | 4500  | 2320                    | 3195                    |
| HHUS210-2          | 14   | 3 1/4            | 9 1/4  | 3 | 8              | (30) 16d  | (10) 16d | 4670                | 9670  | 4235                    | 7000                    |
| HGUS210-2          | 12   | 3 1/4            | 9 1/4  | 4 | 8 1/4          | (48) 16d  | (16) 16d | 6840                | 14015 | 4855                    | 10270                   |
| Triple 2x Sizes    |      |                  |        |   |                |           |          |                     |       |                         |                         |
| HGUS26-3           | 12   | 4 1/4            | 5 1/4  | 4 | 4 1/4          | (20) 16d  | (8) 16d  | 4385                | 8950  | 3110                    | 6355                    |
| HGUS28-3           | 12   | 4 1/4            | 7 1/4  | 4 | 6 1/4          | (36) 16d  | (12) 16d | 6070                | 12980 | 4310                    | 9215                    |
| HHUS210-3          | 14   | 4 1/4            | 9      | 3 | 7 1/4          | (30) 16d  | (10) 16d | 4670                | 9670  | 4235                    | 6865                    |
| HGUS210-3          | 12   | 4 1/4            | 9 1/4  | 4 | 8 1/4          | (48) 16d  | (16) 16d | 6840                | 14045 | 4855                    | 10400                   |
| Quadruple 2x Sizes |      |                  |        |   |                |           |          |                     |       |                         |                         |
| HGUS26-4           | 12   | 6 1/4            | 5 1/4  | 4 | 4 1/4          | (20) 16d  | (8) 16d  | 4385                | 8950  | 3110                    | 6355                    |
| HGUS28-4           | 12   | 6 1/4            | 7 1/4  | 4 | 6 1/4          | (36) 16d  | (12) 16d | 6070                | 12980 | 4310                    | 9215                    |
| HHUS210-4          | 14   | 6 1/4            | 9      | 3 | 7 1/4          | (30) 16d  | (10) 16d | 4670                | 10155 | 4235                    | 7210                    |
| HGUS210-4          | 12   | 6 1/4            | 9 1/4  | 4 | 8 1/4          | (48) 16d  | (16) 16d | 6840                | 14645 | 4855                    | 10400                   |
| HGUS212-4          | 12   | 6 1/4            | 10 1/4 | 4 | 10 1/4         | (56) 16d  | (20) 16d | 7640                | 14995 | 5425                    | 10645                   |
| HGUS214-4          | 12   | 6 1/4            | 12 1/4 | 4 | 11 1/4         | (66) 16d  | (22) 16d | 10130               | 16400 | 7195                    | 11645                   |
| 4x Sizes           |      |                  |        |   |                |           |          |                     |       |                         |                         |
| LUS46              | 18   | 3 1/4            | 4 1/4  | 2 | 3 1/4          | (4) 16d   | (4) 16d  | 1720                | 2595  | 1545                    | 1920                    |
| SS HHUS46          | 14   | 3 1/4            | 5 1/4  | 3 | 3 1/4          | (14) 16d  | (5) 16d  | 2540                | 7335  | 2065                    | 5205                    |
| HGUS46             | 12   | 3 1/4            | 5 1/4  | 4 | 4 1/4          | (20) 16d  | (8) 16d  | 4385                | 8950  | 3110                    | 6355                    |
| LUS48              | 18   | 3 1/4            | 6 1/4  | 2 | 3 1/4          | (6) 16d   | (4) 16d  | 1720                | 3325  | 1545                    | 2575                    |
| HHUS48             | 14   | 3 1/4            | 7 1/4  | 3 | 6 1/4          | (22) 16d  | (8) 16d  | 3765                | 8940  | 2675                    | 6345                    |
| HGUS48             | 12   | 3 1/4            | 7 1/4  | 4 | 6 1/4          | (36) 16d  | (12) 16d | 6070                | 12980 | 4310                    | 9215                    |
| LUS410             | 18   | 3 1/4            | 8 1/4  | 2 | 5 1/4          | (8) 16d   | (5) 16d  | 2580                | 4500  | 2320                    | 3195                    |
| HGUS410            | 12   | 3 1/4            | 9      | 4 | 8 1/4          | (48) 16d  | (16) 16d | 6840                | 14015 | 4855                    | 10270                   |
| HGUS412            | 12   | 3 1/4            | 10 1/4 | 4 | 10 1/4         | (56) 16d  | (20) 16d | 7640                | 14995 | 5425                    | 10645                   |
| HGUS414            | 12   | 3 1/4            | 12 1/4 | 4 | 11 1/4         | (66) 16d  | (22) 16d | 10130               | 16400 | 7195                    | 11645                   |



Plated Truss Connectors

See footnotes  
on p. 258.



**45° Hip End**

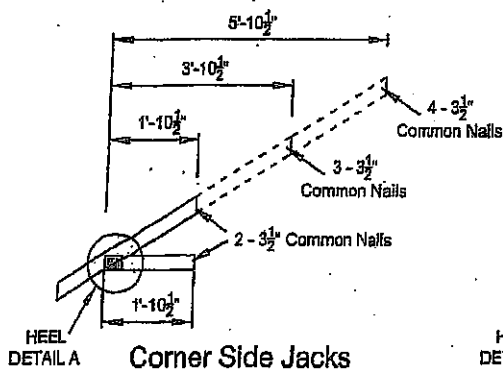
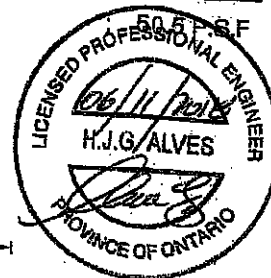
### LUMBER SPECIFICATION

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

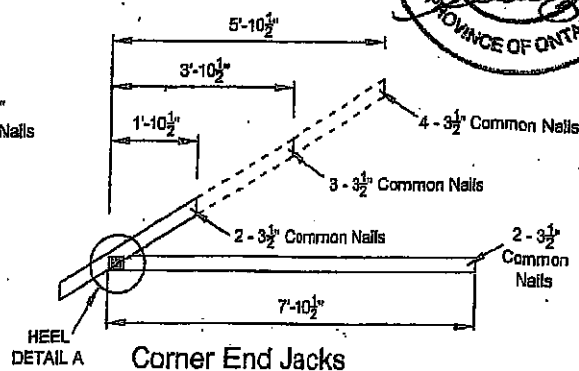
### DESIGN LOAD

TOP CHORD SNOW LOAD : 40.5 P.S.F.  
 TOP CHORD DEAD LOAD : 3.0 P.S.F.  
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.  
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

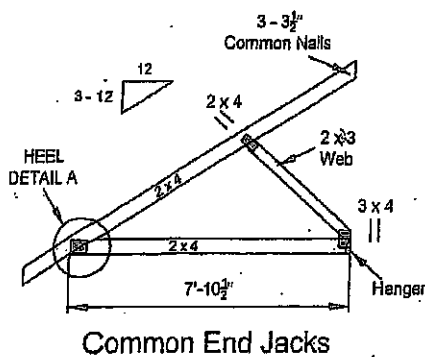
TOTAL LOAD



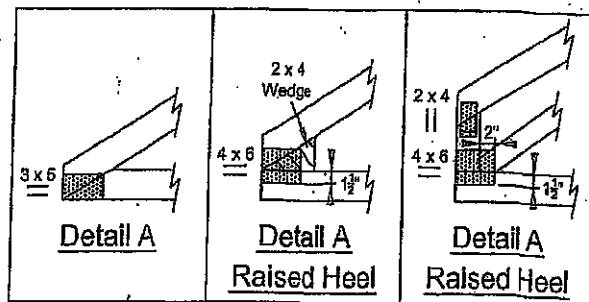
**Corner Side Jacks**



**Corner End Jacks**

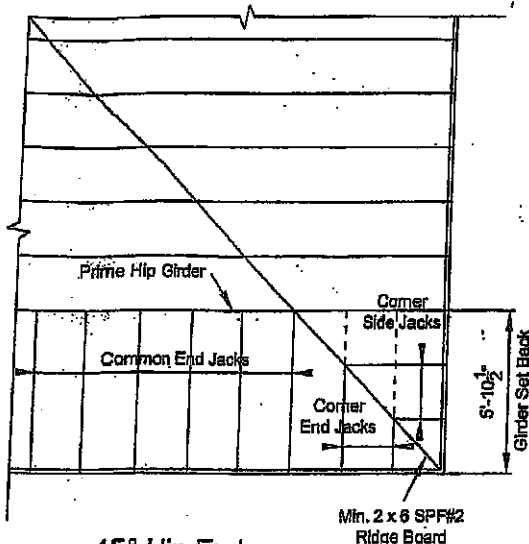


**Common End Jacks**



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

T-1800217



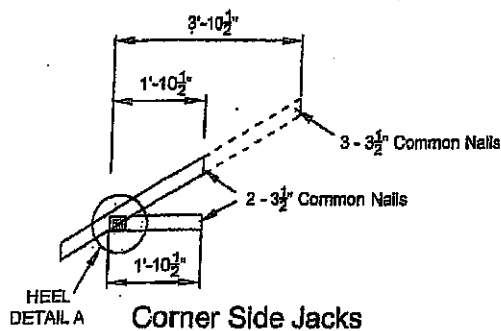
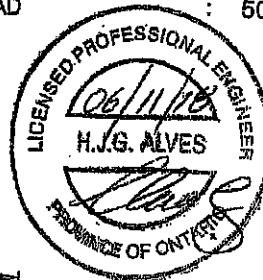
**45° Hip End**

### LUMBER SPECIFICATION

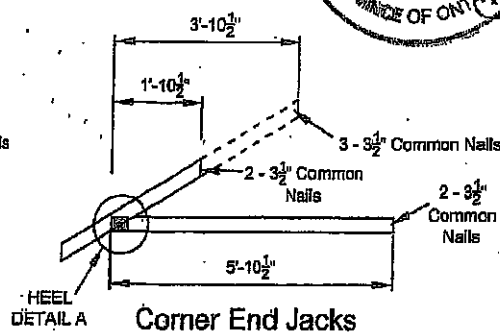
TOP CHORD : 2 x 4 SPF#2  
 BOTTOM CHORD : 2 x 4 SPF#2  
 WEBS : 2 x 3 SPF#2  
 UNLESS OTHERWISE SHOWN

### DESIGN LOAD

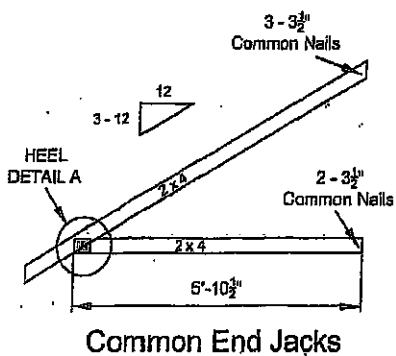
TOP CHORD SNOW LOAD : 40.5 P.S.F.  
 TOP CHORD DEAD LOAD : 3.0 P.S.F.  
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.  
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.  
 TOTAL LOAD : 50.5 P.S.F.



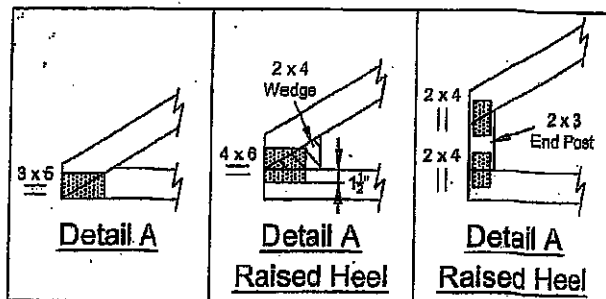
**Corner Side Jacks**



**Corner End Jacks**



**Common End Jacks**



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

**RECEIVED**  
 JUN 13 2019

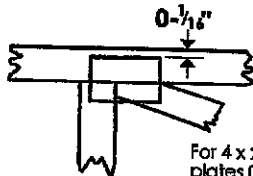
T-1800216

TOWN OF CALEDON  
 BUILDING SECTION  
 FILE NO

## Symbols

### PLATE LOCATION AND ORIENTATION

 Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths or mm. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0-1/8" from outside edge of truss.

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

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

### PLATE SIZE

4 x 4

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

### LATERAL BRACING LOCATION



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

### BEARING

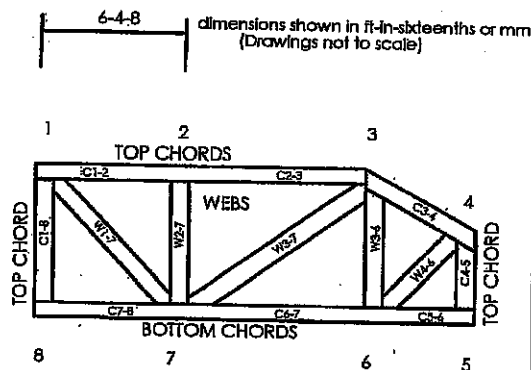


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

### Industry Standards:

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

## Numbering System



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

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

### PRODUCT CODE APPROVALS

CCMC Reports:

11996-L, 10319-L, 13270-L, 12691-R

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**MiTek**  
POWER TO PERFORM.™

MiTek Engineering Reference Sheet: MH-7473C rev. 10-08

## General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by TPIC.
7. Design assumes trusses will be suitably protected from the environment in accord with TPIC.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. 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 TPIC Quality Criteria.



## 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-1900218

Feb 09, 2018

