

**Builder / Location:**

**GREENPARK HOMES / WATERDOWN**

Model / Elevation:

ROSEWOOD 11/1

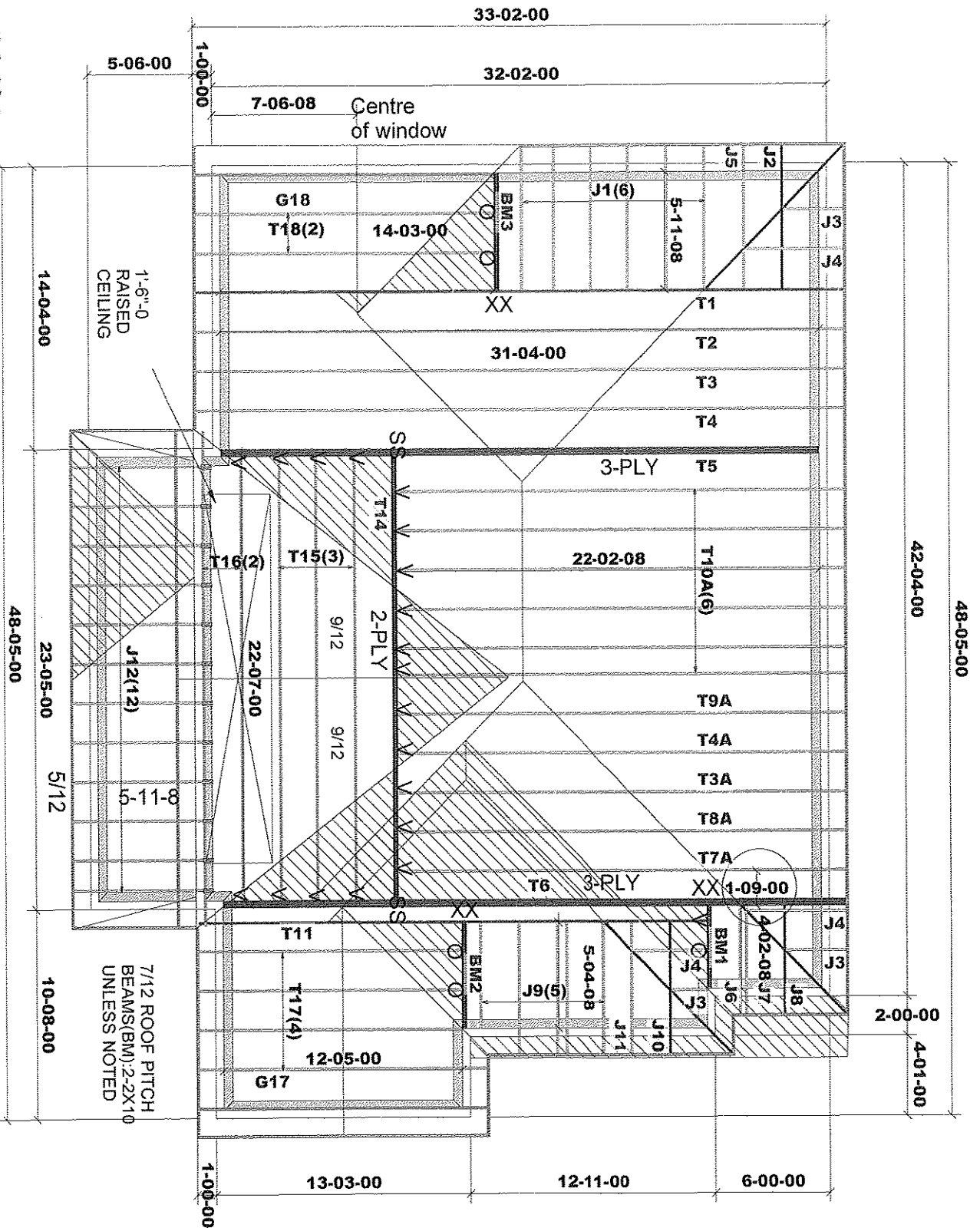
Project: **RUSSEL GARDENS PHASE 2**

|                 |                    |
|-----------------|--------------------|
| Date: 8/29/2017 | Designer: JG/S.V.E |
|-----------------|--------------------|

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Miletek ver 7.0.5.5

Milek ver 7.5.0



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

ALL CONVENTIONAL ROOF FRAMING TO CONFORM TO PART9 OF THE OBC. LATEST EDITION ROOF RAFTERS THAT MEET OR CROSS OVER TRUSSES ARE TO BE 2"x4"SPF@24"o.c. WITH A 2"x4"SPF VERTICAL POST TO THE TRUSS UNDER AT EACH CROSS POINT POSTS LONGER THAN 6' TO BE Laterally Braced so THAT THE DISTANCE BETWEEN END POINTS AND BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

DESIGN CONFORMS WITH  
THE RELEVANT SECTION OF  
THE LATEST EDITION OF  
O.B.C. PART.9

DESIGN LOADS:

GROUND SNOW LOAD

SS = 1.5 kPa  
TC, DEA

BC LIVE 10.5 PSF

BC DEAD 7 PSF

DENOTES

CONVENTIONAL

## FRAMING

## HARDWARE

LUS24(O)

LJS26DS(V)

HGU526-2(AN)  
HGU528-2(SS)

T-170329

42-04-00

2-00-00  
3-01-00  
1-00-00

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

ALL CONVENTIONAL ROOF FRAMING TO CONFORM TO PART 9 OF THE OBC LATEST EDITION ROOF RAFTERS THAT MEET OR CROSS OVER TRUSSES ARE TO BE 2"x4"SPF@24"o.c. WITH A 2"x4"SPF VERTICAL POST TO THE TRUSS UNDER AT EACH CROSS POINT POSTS LONGER THAN 6' TO BE LATERALLY BRACED SO THAT THE DISTANCE BETWEEN END POINTS AND BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

DESIGN CONFORMS WITH THE RELEVANT SECTION OF THE LATEST EDITION OF O.B.C. PART 9

DESIGN LOADS:  
GROUND SNOW LOAD  
S<sub>s</sub> = 1.5 kPa

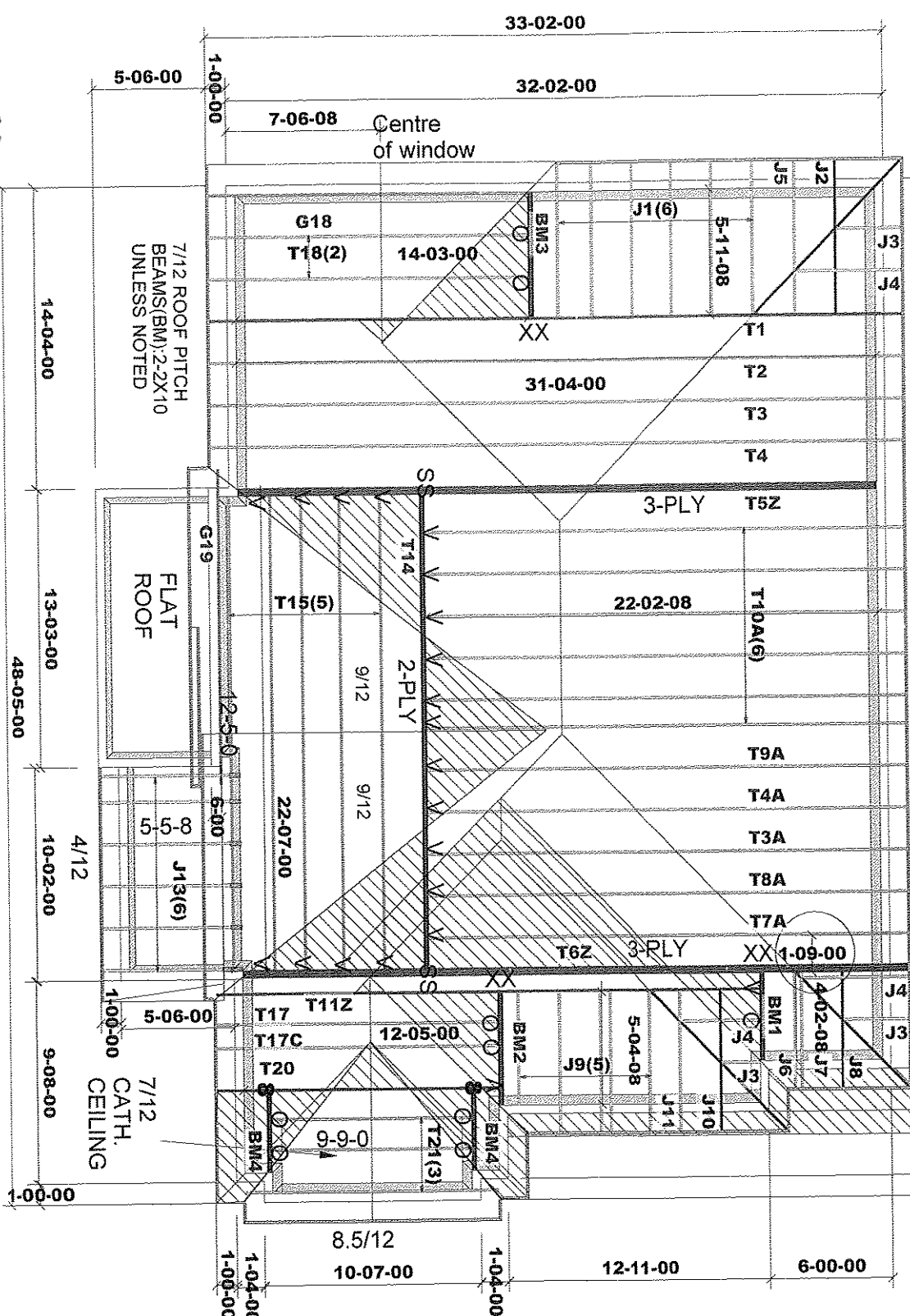
TC DEAD 3 PSF  
BC LIVE 10.5 PSF  
BC DEAD 7 PSF

NOTES  
CONVENTIONAL FRAMING



HARDWARE  
LUS24(O)  
LUS26DS(V)  
HGUS26-2(XX)  
HGUS28-2(SS)  
LUS24-2 (8)

T-170329



7/12 ROOF PITCH  
BEAMS(BM):2-2X10  
UNLESS NOTED

FLAT  
ROOF

7/12  
CATH.  
CEILING

33-02-00

32-02-00

7-06-08 Centre  
of window

5-06-00

1-00-00

G18

T18(2)

14-03-00

J1(6)

5-11-08

J5

J2

J3

J4

31-04-00

T1

T2

T3

T4

3-PLY T5Z

22-02-08

T10A(6)

T9A

T4A

T3A

T8A

T7A

T6Z 3-PLY XX 1-09-00

J4

J3

J8

J6

J7

T6Z

T11Z

T17C

T20

T21(3)

BM2

BM4

BM3

BM1

J9(5)

5-04-08

J11

J10

J1

J2

J3

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## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 08/29/17 |
| SALES REP | Mario    |

JOB TRACK: 43954      LAYOUT ID: 282146      LOCATION: WATERDOWN  
 BUILDER: GREENPARK - RUSSELL GARDENS PH 2      SUB-BUILDER:  
 MODEL: ROSEWOOD 11      ELEVATION: 1

## ROOF TRUSSES

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

| PROFILE | QTY        | MARK<br>TYPE      | PITCH<br>TC<br>BC | SPAN     | TRUSS<br>HEIGHT | LUMBER |       | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY:<br>REMARKS |
|---------|------------|-------------------|-------------------|----------|-----------------|--------|-------|---------------------------|------------------------------|------------------|---------------------|---------------------|
|         | PLY        |                   |                   |          |                 | TOP    | BOT   |                           |                              |                  |                     |                     |
|         | 1          | T1<br>HIP GIRDER  | 7.00<br>0.00      | 31-04-00 | 04-09-02        | 2 X 4  | 2 X 6 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 174.85<br>106.00 |                     |                     |
|         | 1          | T2<br>HIP         | 7.00<br>0.00      | 31-04-00 | 05-11-02        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 125.05<br>77.67  |                     |                     |
|         | 1          | T3<br>HIP         | 7.00<br>0.00      | 31-04-00 | 07-01-02        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 135.18<br>85.50  |                     |                     |
|         | 1          | T3A<br>HIP        | 7.00<br>0.00      | 22-02-08 | 07-01-02        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>06-07-05         | 109.82<br>70.67  |                     |                     |
|         | 1          | T4<br>HIP         | 7.00<br>0.00      | 31-04-00 | 08-03-02        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 136.89<br>86.00  |                     |                     |
|         | 1          | T4A<br>HIP        | 7.00<br>0.00      | 22-02-08 | 08-03-02        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>06-07-05         | 109.64<br>69.67  |                     |                     |
|         | 1<br>3 Ply | T5<br>HIP GIRDER  | 7.00<br>0.00      | 31-04-00 | 09-05-02        | 2 X 6  | 2 X 8 | 00-00-00<br>00-00-00      | 01-03-07<br>01-03-07         | 723.69<br>432.00 |                     |                     |
|         | 1<br>3 Ply | T6<br>HIP GIRDER  | 7.00<br>0.00      | 31-04-00 | 03-08-14        | 2 X 4  | 2 X 8 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 586.83<br>351.99 |                     |                     |
|         | 1          | T7A<br>HALF HIP   | 7.00<br>0.00      | 22-02-08 | 04-09-02        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>04-09-02         | 90.33<br>57.67   |                     |                     |
|         | 1          | T8A<br>HALF HIP   | 7.00<br>0.00      | 22-02-08 | 05-11-02        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>05-11-02         | 91.73<br>57.33   |                     |                     |
|         | 1          | T9A<br>HIP        | 7.00<br>0.00      | 22-02-08 | 09-05-02        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>06-07-05         | 108.54<br>67.84  |                     |                     |
|         | 6          | T10A<br>COMMON    | 7.00<br>0.00      | 22-02-08 | 10-05-02        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>06-07-05         | 627.36<br>391.98 |                     |                     |
|         | 1          | T11<br>HIP GIRDER | 7.00<br>0.00      | 25-04-00 | 04-05-01        | 2 X 6  | 2 X 6 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 142.99<br>85.33  |                     |                     |
|         | 1<br>2 Ply | T14<br>COMMON     | 9.00<br>0.00      | 22-07-00 | 09-11-14        | 2 X 6  | 2 X 6 | 00-00-00<br>00-00-00      | 01-06-04<br>01-06-04         | 298.28<br>184.00 |                     |                     |
|         | 3          | T15<br>COMMON     | 9.00<br>0.00      | 22-07-00 | 09-11-14        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-06-04<br>01-06-04         | 325.71<br>204.00 |                     |                     |
|         | 2          | T16<br>ROOF       | 9.00<br>0.00      | 22-07-00 | 09-11-14        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-06-04<br>01-06-04         | 208.62<br>134.66 |                     |                     |
|         | 4          | T17<br>COMMON     | 7.00<br>0.00      | 12-05-00 | 04-10-14        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 197.16<br>122.00 |                     |                     |
|         | 1          | G17<br>GABLE      | 7.00<br>0.00      | 12-05-00 | 04-10-14        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 48.16<br>31.50   |                     |                     |



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 08/29/17 |
| SALES REP | Mario    |

JOB TRACK: 43954      LAYOUT ID: 282146      LOCATION: WATERDOWN  
 BUILDER: GREENPARK - RUSSELL GARDENS PH 2      SUB-BUILDER:  
 MODEL: ROSEWOOD 11      ELEVATION: 1

### ROOF TRUSSES

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

| PROFILE | QTY | MARK<br>TYPE     | PITCH<br>TC<br>BC | SPAN     | TRUSS<br>HEIGHT | LUMBER |       | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY:<br>REMARKS |
|---------|-----|------------------|-------------------|----------|-----------------|--------|-------|---------------------------|------------------------------|------------------|---------------------|---------------------|
|         | PLY |                  |                   |          |                 | TOP    | BOT   |                           |                              |                  |                     |                     |
|         | 2   | T18<br>COMMON    | 7.00<br>0.00      | 14-03-00 | 05-05-05        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 117.76<br>74.34  |                     |                     |
|         | 1   | G18<br>GABLE     | 7.00<br>0.00      | 14-03-00 | 05-05-05        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 57.09<br>36.17   |                     |                     |
|         | 6   | J1<br>JACK-OPEN  | 7.00<br>0.00      | 05-11-08 | 04-09-02        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>04-09-02         | 105.00<br>64.02  |                     |                     |
|         | 1   | J2<br>JACK-OPEN  | 7.00<br>0.00      | 05-11-08 | 02-03-15        | 2 X 4  | 2 X 4 | 01-03-08<br>-04-02-01     | 01-03-07<br>00-03-08         | 16.66<br>10.33   |                     |                     |
|         | 3   | J3<br>JACK-OPEN  | 7.00<br>0.00      | 01-10-08 | 02-03-15        | 2 X 4  | 2 X 4 | 01-03-08<br>-00-01-01     | 01-03-07<br>00-03-08         | 26.40<br>17.01   |                     |                     |
|         | 3   | J4<br>JACK-OPEN  | 7.00<br>0.00      | 01-10-08 | 03-05-15        | 2 X 4  | 2 X 4 | 01-03-08<br>01-10-15      | 01-03-07<br>00-04-15         | 34.29<br>23.01   |                     |                     |
|         | 1   | J5<br>JACK-OPEN  | 7.00<br>0.00      | 05-11-08 | 03-05-15        | 2 X 4  | 2 X 4 | 01-03-08<br>-02-02-01     | 01-03-07<br>00-03-08         | 19.30<br>12.33   |                     |                     |
|         | 1   | J6<br>JACK-OPEN  | 7.00<br>0.00      | 04-02-08 | 03-08-14        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>03-08-14         | 13.20<br>8.67    |                     |                     |
|         | 1   | J7<br>JACK-OPEN  | 7.00<br>0.00      | 04-02-08 | 03-05-15        | 2 X 4  | 2 X 4 | 01-03-08<br>-00-05-01     | 01-03-07<br>00-03-08         | 15.90<br>11.17   |                     |                     |
|         | 1   | J8<br>JACK-OPEN  | 7.00<br>0.00      | 04-02-08 | 02-03-15        | 2 X 4  | 2 X 4 | 01-03-08<br>-02-05-01     | 01-03-07<br>00-03-08         | 13.26<br>9.17    |                     |                     |
|         | 5   | J9<br>JACK-OPEN  | 7.00<br>0.00      | 05-04-08 | 04-05-01        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>04-05-01         | 80.35<br>50.00   |                     |                     |
|         | 1   | J10<br>JACK-OPEN | 7.00<br>0.00      | 05-04-08 | 02-03-15        | 2 X 4  | 2 X 4 | 01-03-08<br>-03-07-01     | 01-03-07<br>00-03-08         | 15.53<br>10.33   |                     |                     |
|         | 1   | J11<br>JACK-OPEN | 7.00<br>0.00      | 05-04-08 | 03-05-15        | 2 X 4  | 2 X 4 | 01-03-08<br>-01-07-01     | 01-03-07<br>00-03-08         | 18.16<br>12.33   |                     |                     |
|         | 12  | J12<br>MONOPITCH | 5.00<br>0.00      | 05-11-08 | 02-09-13        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 00-04-01<br>02-09-13         | 190.68<br>111.96 |                     |                     |

TOTAL # TRUSS= 73.00

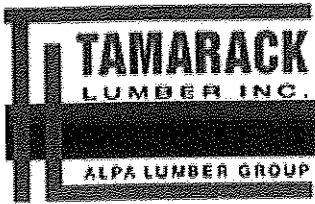
TOTAL BFT OF ALL TRUSSES=

3066.65 BFT. TOTAL WEIGHT OF ALL TRUSSES= 4964.41 LBS.

### HARDWARE

| QTY | ITEM TYPE | MODEL    | LENGTH<br>FT-IN-16 |
|-----|-----------|----------|--------------------|
| 3   | Hangers   | HGUS26-2 |                    |
| 2   | Hangers   | HGUS28-2 |                    |
| 5   | Hangers   | LUS24    |                    |
| 20  | Hangers   | LJS26DS  |                    |

TOTAL # ITEMS= 30.00



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 08/29/17 |
| SALES REP | Mario    |

JOB TRACK: 43954      LAYOUT ID: 282152      LOCATION: WATERDOWN  
 BUILDER: GREENPARK - RUSSELL GARDENS PH 2      SUB-BUILDER:  
 MODEL: ROSEWOOD 11      ELEVATION: 2

### ROOF TRUSSES

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

| PROFILE | QTY        | MARK<br>TYPE       | PITCH<br>TC<br>BC | SPAN     | TRUSS<br>HEIGHT | LUMBER |       | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY:<br>REMARKS |
|---------|------------|--------------------|-------------------|----------|-----------------|--------|-------|---------------------------|------------------------------|------------------|---------------------|---------------------|
|         | PLY        |                    |                   |          |                 | TOP    | BOT   |                           |                              |                  |                     |                     |
|         | 1          | T1<br>HIP GIRDER   | 7.00<br>0.00      | 31-04-00 | 04-09-02        | 2 X 4  | 2 X 6 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 174.85<br>106.00 |                     |                     |
|         | 1          | T2<br>HIP          | 7.00<br>0.00      | 31-04-00 | 05-11-02        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 125.05<br>77.67  |                     |                     |
|         | 1          | T3<br>HIP          | 7.00<br>0.00      | 31-04-00 | 07-01-02        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 135.18<br>85.50  |                     |                     |
|         | 1          | T3A<br>HIP         | 7.00<br>0.00      | 22-02-08 | 07-01-02        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>06-07-05         | 109.82<br>70.67  |                     |                     |
|         | 1          | T4<br>HIP          | 7.00<br>0.00      | 31-04-00 | 08-03-02        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 136.89<br>86.00  |                     |                     |
|         | 1          | T4A<br>HIP         | 7.00<br>0.00      | 22-02-08 | 08-03-02        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>06-07-05         | 109.64<br>69.67  |                     |                     |
|         | 1<br>3 Ply | T5Z<br>HIP GIRDER  | 7.00<br>0.00      | 31-04-00 | 09-05-02        | 2 X 4  | 2 X 8 | 00-00-00<br>00-00-00      | 01-03-07<br>01-03-07         | 635.16<br>386.01 |                     |                     |
|         | 1<br>3 Ply | T6Z<br>HIP GIRDER  | 7.00<br>0.00      | 31-04-00 | 03-08-14        | 2 X 4  | 2 X 8 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 586.83<br>351.99 |                     |                     |
|         | 1          | T7A<br>HALF HIP    | 7.00<br>0.00      | 22-02-08 | 04-09-02        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>04-09-02         | 90.33<br>57.67   |                     |                     |
|         | 1          | T8A<br>HALF HIP    | 7.00<br>0.00      | 22-02-08 | 05-11-02        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>05-11-02         | 91.73<br>57.33   |                     |                     |
|         | 1          | T9A<br>HIP         | 7.00<br>0.00      | 22-02-08 | 09-05-02        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>06-07-05         | 108.54<br>67.84  |                     |                     |
|         | 6          | T10A<br>COMMON     | 7.00<br>0.00      | 22-02-08 | 10-05-02        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>06-07-05         | 627.36<br>391.98 |                     |                     |
|         | 1          | T11Z<br>HIP GIRDER | 7.00<br>0.00      | 25-04-00 | 04-05-01        | 2 X 6  | 2 X 6 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 142.99<br>85.33  |                     |                     |
|         | 1<br>2 Ply | T14<br>COMMON      | 9.00<br>0.00      | 22-07-00 | 09-11-14        | 2 X 6  | 2 X 6 | 00-00-00<br>00-00-00      | 01-06-04<br>01-06-04         | 298.28<br>184.00 |                     |                     |
|         | 5          | T15<br>COMMON      | 9.00<br>0.00      | 22-07-00 | 09-11-14        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-06-04<br>01-06-04         | 542.85<br>340.00 |                     |                     |
|         | 1          | G19<br>COMMON      | 9.00<br>0.00      | 12-05-00 | 06-02-02        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-06-04<br>01-06-04         | 53.92<br>35.67   |                     |                     |
|         | 2          | T18<br>COMMON      | 7.00<br>0.00      | 14-03-00 | 05-05-05        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 117.76<br>74.34  |                     |                     |
|         | 1          | G18<br>GABLE       | 7.00<br>0.00      | 14-03-00 | 05-05-05        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 57.09<br>36.17   |                     |                     |



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 08/29/17 |
| SALES REP | Mario    |

JOB TRACK: 43954      LAYOUT ID: 282152      LOCATION: WATERDOWN  
 BUILDER: GREENPARK - RUSSELL GARDENS PH 2      SUB-BUILDER:  
 MODEL: ROSEWOOD 11      ELEVATION: 2

### ROOF TRUSSES

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

| PROFILE | QTY | MARK<br>TYPE      | PITCH<br>TC<br>BC | SPAN     | TRUSS<br>HEIGHT | LUMBER |       | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.    | BUNDLE #<br>STACK # | LOAD BY:<br>REMARKS |
|---------|-----|-------------------|-------------------|----------|-----------------|--------|-------|---------------------------|------------------------------|-----------------|---------------------|---------------------|
|         | PLY |                   |                   |          |                 | TOP    | BOT   |                           |                              |                 |                     |                     |
|         | 1   | T20<br>HIP GIRDER | 7.00<br>0.00      | 12-05-00 | 03-06-09        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 52.15<br>33.67  |                     |                     |
|         | 1   | T17<br>COMMON     | 7.00<br>0.00      | 12-05-00 | 04-10-14        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 49.29<br>30.50  |                     |                     |
|         | 1   | T17C<br>COMMON    | 7.00<br>0.00      | 12-05-00 | 04-08-09        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-03-07<br>01-03-07         | 49.06<br>30.50  |                     |                     |
|         | 3   | T21<br>SCISSORS   | 8.50<br>7.00      | 09-09-00 | 04-10-15        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-05-08<br>01-05-08         | 131.55<br>86.01 |                     |                     |
|         | 6   | J1<br>JACK-OPEN   | 7.00<br>0.00      | 05-11-08 | 04-09-02        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>04-09-02         | 105.00<br>64.02 |                     |                     |
|         | 1   | J2<br>JACK-OPEN   | 7.00<br>0.00      | 05-11-08 | 02-03-15        | 2 X 4  | 2 X 4 | 01-03-08<br>-04-02-01     | 01-03-07<br>00-03-08         | 16.66<br>10.33  |                     |                     |
|         | 3   | J3<br>JACK-OPEN   | 7.00<br>0.00      | 01-10-08 | 02-03-15        | 2 X 4  | 2 X 4 | 01-03-08<br>-00-01-01     | 01-03-07<br>00-03-08         | 26.40<br>17.01  |                     |                     |
|         | 3   | J4<br>JACK-OPEN   | 7.00<br>0.00      | 01-10-08 | 03-05-15        | 2 X 4  | 2 X 4 | 01-03-08<br>01-10-15      | 01-03-07<br>00-04-15         | 34.29<br>23.01  |                     |                     |
|         | 1   | J5<br>JACK-OPEN   | 7.00<br>0.00      | 05-11-08 | 03-05-15        | 2 X 4  | 2 X 4 | 01-03-08<br>-02-02-01     | 01-03-07<br>00-03-08         | 19.30<br>12.33  |                     |                     |
|         | 1   | J6<br>JACK-OPEN   | 7.00<br>0.00      | 04-02-08 | 03-08-14        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>03-08-14         | 13.20<br>8.67   |                     |                     |
|         | 1   | J7<br>JACK-OPEN   | 7.00<br>0.00      | 04-02-08 | 03-05-15        | 2 X 4  | 2 X 4 | 01-03-08<br>-00-05-01     | 01-03-07<br>00-03-08         | 15.90<br>11.17  |                     |                     |
|         | 1   | J8<br>JACK-OPEN   | 7.00<br>0.00      | 04-02-08 | 02-03-15        | 2 X 4  | 2 X 4 | 01-03-08<br>-02-05-01     | 01-03-07<br>00-03-08         | 13.26<br>9.17   |                     |                     |
|         | 5   | J9<br>JACK-OPEN   | 7.00<br>0.00      | 05-04-08 | 04-05-01        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-03-07<br>04-05-01         | 80.35<br>50.00  |                     |                     |
|         | 1   | J10<br>JACK-OPEN  | 7.00<br>0.00      | 05-04-08 | 02-03-15        | 2 X 4  | 2 X 4 | 01-03-08<br>-03-07-01     | 01-03-07<br>00-03-08         | 15.53<br>10.33  |                     |                     |
|         | 1   | J11<br>JACK-OPEN  | 7.00<br>0.00      | 05-04-08 | 03-05-15        | 2 X 4  | 2 X 4 | 01-03-08<br>-01-07-01     | 01-03-07<br>00-03-08         | 18.16<br>12.33  |                     |                     |
|         | 6   | J13<br>JACK-OPEN  | 4.00<br>0.00      | 05-05-08 | 02-01-12        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 00-03-15<br>02-01-12         | 86.70<br>55.98  |                     |                     |

TOTAL # TRUSS= 69.00

TOTAL BFT OF ALL TRUSSES=

3028.87 BFT. TOTAL WEIGHT OF ALL TRUSSES= 4871.07 LBS.

### HARDWARE

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



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 08/29/17 |
| SALES REP | Mario    |

JOB TRACK: 43954      LAYOUT ID: 282152      LOCATION: WATERDOWN  
 BUILDER: GREENPARK - RUSSELL GARDENS PH 2      SUB-BUILDER:  
 MODEL: ROSEWOOD 11      ELEVATION: 2

### HARDWARE

| QTY | ITEM TYPE | MODEL    | LENGTH<br>FT-IN-16 |
|-----|-----------|----------|--------------------|
| 3   | Hangers   | HGUS26-2 |                    |
| 2   | Hangers   | HGUS28-2 |                    |
| 2   | Hangers   | LUS24-2  |                    |
| 21  | Hangers   | LJS26DS  |                    |
| 9   | Hangers   | LUS24    |                    |

TOTAL # ITEMS= 37.00

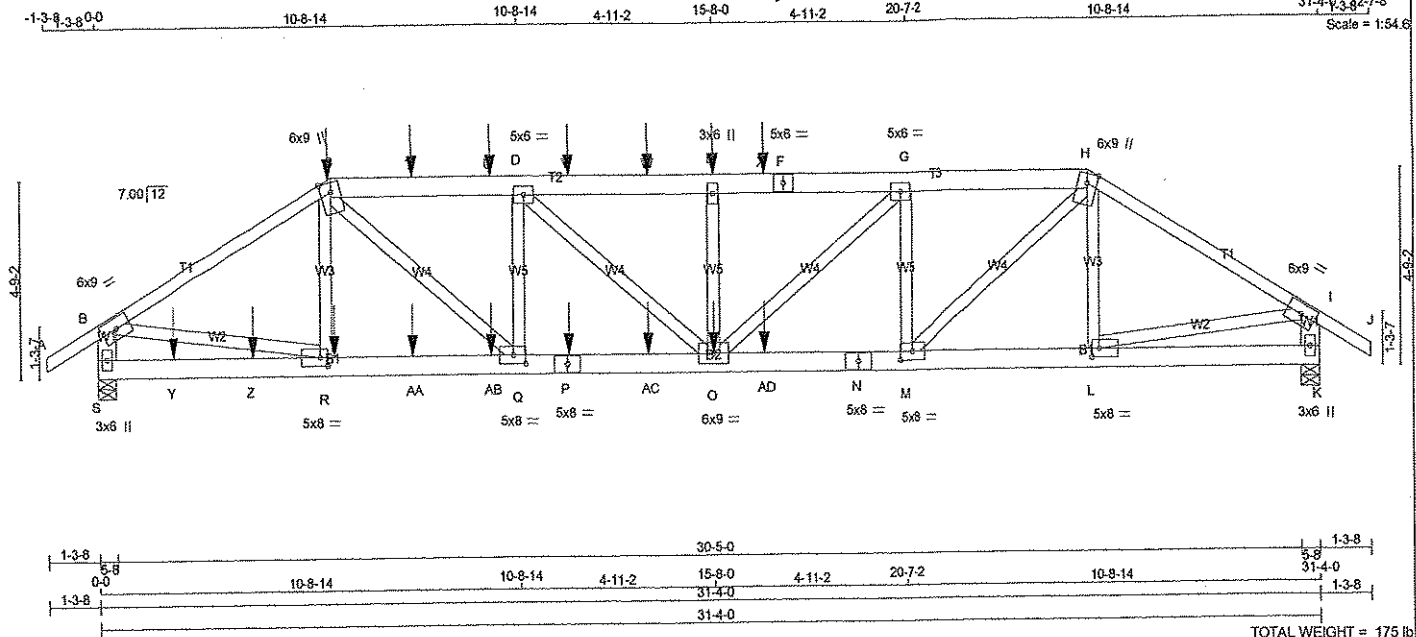
|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 43954 | DRWG NO. |
| 282146   | T1         | 1        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

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ID: BIDYoa7JUicNZOW3VDEpoyiz7K\_91n8O2FgKXUD?WnF9ZGLsHBPqrK\_yr45CAGGzyiu6q

31-4-0 3-3-2-7-8  
Scale = 1:54.6



| LUMBER          | N. L. G. A. RULES | CHORDS | SIZE       | DRY | LUMBER | DESCR. |
|-----------------|-------------------|--------|------------|-----|--------|--------|
| A - C           | 2x4               | DRY    | 1650F 1.5E | SPF |        |        |
| C - F           | 2x6               | DRY    | No.2       | SPF |        |        |
| F - H           | 2x6               | DRY    | No.2       | SPF |        |        |
| H - J           | 2x4               | DRY    | 1650F 1.5E | SPF |        |        |
| S - B           | 2x6               | DRY    | No.2       | SPF |        |        |
| K - I           | 2x6               | DRY    | No.2       | SPF |        |        |
| S - P           | 2x6               | DRY    | 1650F 1.5E | SPF |        |        |
| P - N           | 2x6               | DRY    | 1650F 1.5E | SPF |        |        |
| N - K           | 2x6               | DRY    | 1650F 1.5E | SPF |        |        |
| ALL WEBS EXCEPT | 2x4               | DRY    | No.2       | SPF |        |        |

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT  | REQ'D |
|----------|----------------|------------------|--------|-------|
|          | GROSS REACTION | GROSS REACTION   | BRG    | BRG   |
| JT       | VERT           | DOWN             | UPLIFT | IN-SX |
| S        | 3358           | 0                | 0      | 5-8   |
| K        | 2873           | 0                | 0      | 5-8   |

| UNFACTORED REACTIONS | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS |
|----------------------|-----------|-------------------------------|
| JT                   | COMBINED  | SNOW                          |
| S                    | 2735      | 1553 / 0                      |
| K                    | 2327      | 1344 / 0                      |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.03 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 | MAX. FACTORED | FACTORED | VERT. LOAD | LC1      | MAX      | MAX.   | UNBRAC     | WEBS     | MAX. FACTORED |
|--------|---------------|----------|------------|----------|----------|--------|------------|----------|---------------|
| MEMB.  | FORCE         | (LBS)    | FROM       | TO       | CSI (LC) | UNBRAC | LENGTH     | MEMB.    | FORCE         |
| FR-TO  |               |          |            |          |          |        |            | FR-TO    |               |
| A-B    | 0 / 29        | -84.3    | -84.3      | 0.10 (1) | 10.00    | R-C    | -285 / 254 | 0.06 (1) |               |
| B-C    | -4546 / 0     | -84.3    | -84.3      | 0.91 (1) | 3.08     | L-H    | -404 / 122 | 0.09 (1) |               |
| C-T    | -5760 / 0     | -84.3    | -84.3      | 0.43 (1) | 3.30     | B-R    | 0 / 3981   | 0.70 (1) |               |
| T-U    | -5760 / 0     | -84.3    | -84.3      | 0.43 (1) | 3.30     | L-I    | 0 / 3354   | 0.59 (1) |               |
| U-D    | -5760 / 0     | -84.3    | -84.3      | 0.43 (1) | 3.30     | M-H    | 0 / 2885   | 0.51 (1) |               |
| D-V    | -6609 / 0     | -84.3    | -84.3      | 0.49 (1) | 3.03     | C-Q    | 0 / 2450   | 0.43 (1) |               |
| V-W    | -6609 / 0     | -84.3    | -84.3      | 0.49 (1) | 3.03     | M-G    | -1521 / 0  | 0.33 (1) |               |
| W-E    | -6609 / 0     | -84.3    | -84.3      | 0.49 (1) | 3.03     | Q-D    | -1508 / 0  | 0.33 (1) |               |
| E-X    | -6609 / 0     | -84.3    | -84.3      | 0.45 (1) | 3.08     | O-G    | 0 / 1518   | 0.27 (1) |               |
| X-F    | -6609 / 0     | -84.3    | -84.3      | 0.45 (1) | 3.08     | D-O    | 0 / 1127   | 0.20 (1) |               |
| F-G    | -6609 / 0     | -84.3    | -84.3      | 0.45 (1) | 3.08     | O-E    | -719 / 0   | 0.16 (1) |               |
| G-H    | -5467 / 0     | -84.3    | -84.3      | 0.32 (1) | 3.51     |        |            |          |               |
| H-I    | -3830 / 0     | -84.3    | -84.3      | 0.80 (1) | 3.41     |        |            |          |               |
| I-J    | 0 / 29        | -84.3    | -84.3      | 0.10 (1) | 10.00    |        |            |          |               |
| S-B    | -3243 / 0     | 0.0      | 0.0        | 0.23 (1) | 5.84     |        |            |          |               |
| K-I    | -2790 / 0     | 0.0      | 0.0        | 0.20 (1) | 6.22     |        |            |          |               |

| FACTORED CONCENTRATED LOADS (LBS) | JT     | LOC. | LC1  | MAX. | MAX+ | FACE  | DIR. | TYPE  |
|-----------------------------------|--------|------|------|------|------|-------|------|-------|
| C                                 | 5-11-8 | -480 | -480 | -    | -    | FRONT | VERT | TOTAL |
| E                                 | 15-8-0 | -104 | -104 | -    | -    | FRONT | VERT | TOTAL |
| O                                 | 15-8-0 | -41  | -72  | -    | -    | FRONT | VERT | TOTAL |
| P                                 | 12-0-4 | -41  | -72  | -    | -    | FRONT | VERT | TOTAL |
| R                                 | 8-0-4  | -41  | -72  | -    | -    | FRONT | VERT | TOTAL |
| T                                 | 8-0-4  | -104 | -104 | -    | -    | FRONT | VERT | TOTAL |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 46.1 PSF

SPACING = 24.0 IN. C/C

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

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

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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.04")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.29")  
ALLOWABLE DEFL.(TL) = L/360 (1.04")  
CALCULATED VERT. DEFL.(TL) = L/821 (0.46")

CSI TC=0.91 (B-C:1), BC=0.80 (M-O:1),  
WB=0.70 (B-R:1), SSI=0.53 (M-O:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SSI GRIP= 0.90 (Q) (INPUT = 0.90)  
SSI METAL= 0.92 (P) (INPUT = 1.00)



DWG NO. TAM 43792-17  
STRUCTURAL  
COMPONENT ONLY  
CONTINUED ON PAGE 2

|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 43954 | DRWG NO. |
| 282146   | T1         | 1        | 1   | TRUSS DESC. |       |          |

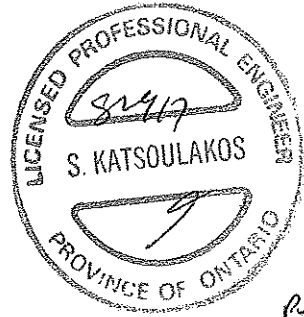
Tamarack Roof Truss, Burlington

Version 8.039 S Oct 5 2016 Mitek Industries, Inc. Tue Aug 29 20:54:33 2017 Page 2

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FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  |
|----|---------|------|------|------|-------|------|-------|
| U  | 10-0-4  | -104 | -104 | ---  | FRONT | VERT | TOTAL |
| V  | 12-0-4  | -104 | -104 | ---  | FRONT | VERT | TOTAL |
| W  | 14-0-4  | -104 | -104 | ---  | FRONT | VERT | TOTAL |
| X  | 16-11-8 | -170 | -170 | ---  | FRONT | VERT | TOTAL |
| Y  | 1-11-4  | -50  | -88  | ---  | FRONT | VERT | TOTAL |
| Z  | 3-11-4  | -50  | -88  | ---  | FRONT | VERT | TOTAL |
| AA | 8-0-4   | -41  | -72  | ---  | FRONT | VERT | TOTAL |
| AB | 10-0-4  | -41  | -72  | ---  | FRONT | VERT | TOTAL |
| AC | 14-0-4  | -41  | -72  | ---  | FRONT | VERT | TOTAL |
| AD | 16-11-8 | -984 | -984 | ---  | FRONT | VERT | TOTAL |



DWG NO. TAM 43792-17  
 STRUCTURAL  
 COMPONENT ONLY

|                           |                         |                      |                 |                           |             |          |
|---------------------------|-------------------------|----------------------|-----------------|---------------------------|-------------|----------|
| JOB NAME<br><b>282146</b> | TRUSS NAME<br><b>T2</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>43954</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|-------------------------|----------------------|-----------------|---------------------------|-------------|----------|

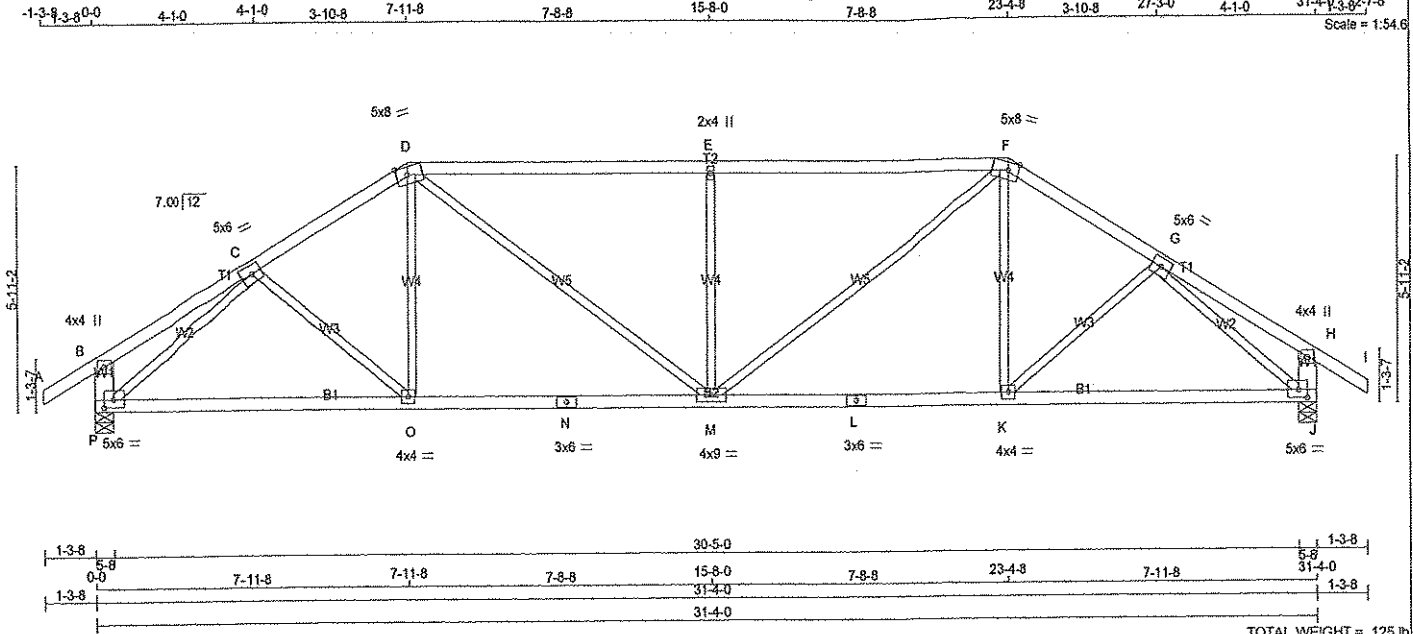
Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 MTEK Industries, Inc. Tue Aug 29 20:54:34 2017 Page 1

ID: BIDYjoa7JULicNZOW3VDEpoyiz7K-SLB9Mk3IRelR95zpt4Vu3qNOEDdjKIDKswppPyu6p

31-4-0 32-7-8

Scale = 1:54.6



TOTAL WEIGHT = 125 lb

**LUMBER**

N. L. G. A. RULES

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

SPF

DRY: SEASONED LUMBER

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

**BEARINGS**

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| P  | 1874                    | 0    | 1874                            | 0    | 5-8       | 5-8      |
| J  | 1874                    | 0    | 1874                            | 0    | 5-8       | 5-8      |

**UNFACTORED REACTIONS**

| JT | MAX./MIN. COMPONENT REACTIONS |       |       |           |      |       |      |
|----|-------------------------------|-------|-------|-----------|------|-------|------|
|    | COMBINED                      | SNOW  | LIVE  | PERM.LIVE | WIND | DEAD  | SOIL |
| P  | 1522                          | 871/0 | 329/0 | 0/0       | 0/0  | 322/0 | 0/0  |
| J  | 1522                          | 871/0 | 329/0 | 0/0       | 0/0  | 322/0 | 0/0  |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.31 FT.

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |       |               | WEBS                 |       |                           |               |  |
|--------|---------------------------|---------------------------|-------|---------------|----------------------|-------|---------------------------|---------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1   | MAX. CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |  |
| FR-TO  |                           | FROM                      | TO    |               |                      | FR-TO |                           |               |  |
| A-B    | 0/29                      | -84.3                     | -84.3 | 0.11 (1)      | 10.00                | C-O   | 0/164                     | 0.04 (3)      |  |
| B-C    | 0/17                      | -84.3                     | -84.3 | 0.19 (1)      | 10.00                | O-D   | 0/351                     | 0.08 (2)      |  |
| C-D    | -2204/0                   | -84.3                     | -84.3 | 0.21 (1)      | 4.43                 | D-M   | 0/840                     | 0.19 (1)      |  |
| D-E    | -2568/0                   | -84.3                     | -84.3 | 0.84 (1)      | 3.31                 | M-E   | -799/0                    | 0.44 (1)      |  |
| E-F    | -2568/0                   | -84.3                     | -84.3 | 0.84 (1)      | 3.31                 | M-F   | 0/840                     | 0.19 (1)      |  |
| F-G    | -2204/0                   | -84.3                     | -84.3 | 0.21 (1)      | 4.43                 | K-F   | 0/351                     | 0.08 (2)      |  |
| G-H    | 0/17                      | -84.3                     | -84.3 | 0.19 (1)      | 10.00                | P-G   | 0/164                     | 0.04 (3)      |  |
| H-I    | 0/29                      | -84.3                     | -84.3 | 0.11 (1)      | 10.00                | P-C   | -2408/0                   | 0.98 (1)      |  |
| P-B    | -248/0                    | 0.0                       | 0.0   | 0.02 (1)      | 7.81                 | G-J   | -2408/0                   | 0.98 (1)      |  |
| J-H    | -248/0                    | 0.0                       | 0.0   | 0.02 (1)      | 7.81                 |       |                           |               |  |
|        |                           |                           |       |               |                      |       |                           |               |  |
| P-O    | 0/1855                    | -28.0                     | -28.0 | 0.65 (2)      | 10.00                |       |                           |               |  |
| O-N    | 0/1890                    | -28.0                     | -28.0 | 0.67 (2)      | 10.00                |       |                           |               |  |
| N-M    | 0/1890                    | -28.0                     | -28.0 | 0.67 (2)      | 10.00                |       |                           |               |  |
| M-L    | 0/1890                    | -28.0                     | -28.0 | 0.67 (2)      | 10.00                |       |                           |               |  |
| L-K    | 0/1890                    | -28.0                     | -28.0 | 0.67 (2)      | 10.00                |       |                           |               |  |
| K-J    | 0/1855                    | -28.0                     | -28.0 | 0.65 (2)      | 10.00                |       |                           |               |  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

TOP CH. LL = 25.6 PSF

DL = 3.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 46.1 PSF

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

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

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

THIS DESIGN COMPLIES WITH:

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (1.04')

CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.16')

ALLOWABLE DEFL.(TL) =  $L/360$  (1.04')

CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.29')

CSI: TC=0.84 (D-E-1), BC=0.67 (M-O-2), WB=0.93 (C-P-1), SS=0.31 (D-E-1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

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

**NAIL VALUES**

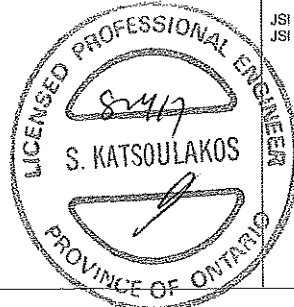
| PLATE   | GRIP(DRY) | SHEAR    | SECTION   |
|---------|-----------|----------|-----------|
| (PSI)   | (PL)      | (PL)     | (PL)      |
| MAX MIN | MAX MIN   | MAX MIN  | MAX MIN   |
| MT20    | 618 354   | 1667 822 | 2284 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.65 (G) (INPUT = 0.90)

JSI METAL= 0.62 (N) (INPUT = 1.00)



DRWG NO. TAM 4379317

STRUCTURAL

COMPONENT ONLY

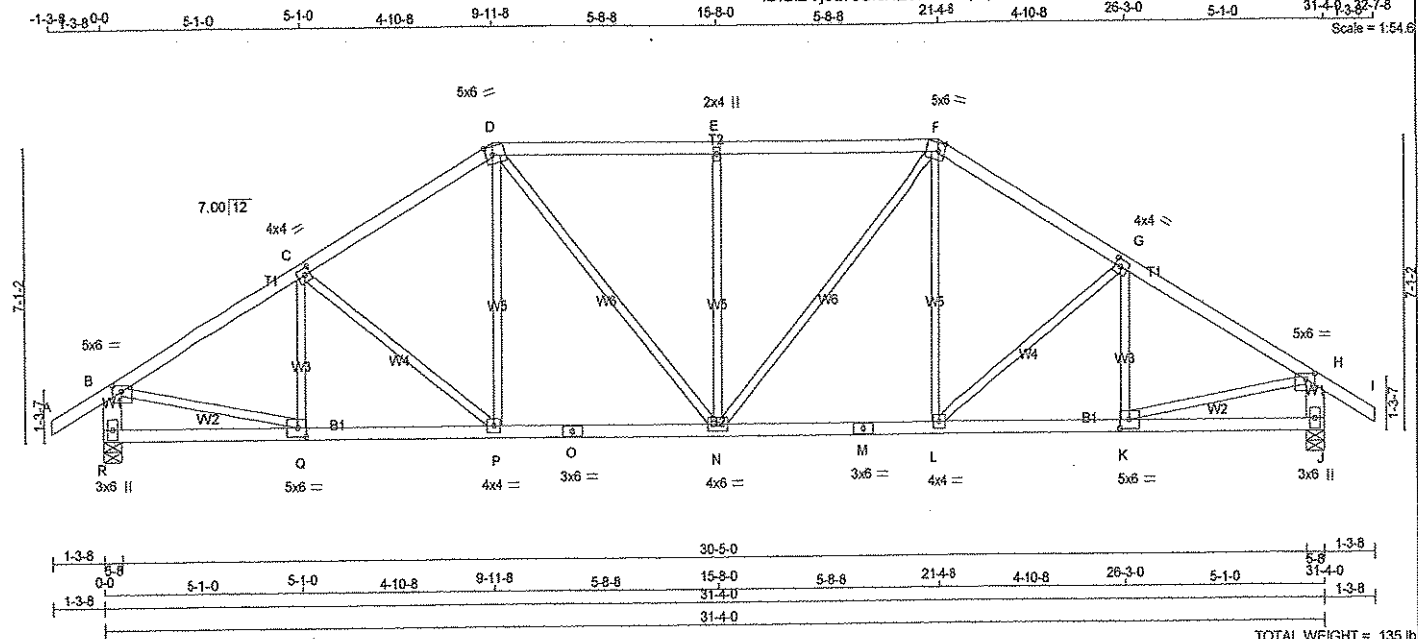
|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 43954 | DRWG NO. |
| 282146   | T3         | 1        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

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ID: B1DYjca7JULicNZOW3VDEpoyiz7K-SLB9Mk3IRelr95zpt4Vu3qU\_EHlJS5DKswppPyku6p

31-4-9-32-7-8  
Scale = 1:54.6



TOTAL WEIGHT = 135 lb

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

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

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-p | MT20   | 5.0 | 6.0 | 1.75 | 2.75 |
| C  | TMVW-l | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TTVW-m | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| E  | TMVW-w | MT20   | 2.0 | 4.0 |      |      |
| F  | TTVW-m | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| G  | TMVW-l | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| H  | TMVW-p | MT20   | 5.0 | 6.0 | 1.75 | 2.75 |
| J  | BMV1+p | MT20   | 3.0 | 6.0 |      |      |
| K  | BMVW-l | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| L  | BMVW-t | MT20   | 4.0 | 4.0 |      |      |
| M  | BS-l   | MT20   | 3.0 | 6.0 |      |      |
| N  | BMVW-w | MT20   | 4.0 | 6.0 |      |      |
| O  | BS-l   | MT20   | 3.0 | 6.0 |      |      |
| P  | BMVW-l | MT20   | 4.0 | 4.0 |      |      |
| Q  | BMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| R  | BMV1+p | MT20   | 3.0 | 6.0 |      |      |

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

| BEARINGS |                | FACTORED |      | MAXIMUM FACTORED |      | INPUT |        | REQRD |       |
|----------|----------------|----------|------|------------------|------|-------|--------|-------|-------|
| JT       | GROSS REACTION | VERT     | HORZ | GROSS REACTION   | DOWN | HORZ  | UPLIFT | IN-SX | IN-SX |
| R        | 1874           | 0        | 0    | 1874             | 0    | 0     | 0      | 5-8   | 5-8   |
| J        | 1874           | 0        | 0    | 1874             | 0    | 0     | 0      | 5-8   | 5-8   |

#### UNFACTORED REACTIONS

| JT | 1ST LCASE |       | MAX./MIN. COMPONENT REACTIONS |           |      |       |      |
|----|-----------|-------|-------------------------------|-----------|------|-------|------|
|    | COMBINED  | SNOW  | LIVE                          | PERM.LIVE | WIND | DEAD  | SOIL |
| R  | 1522      | 871/0 | 329/0                         | 0/0       | 0/0  | 322/0 | 0/0  |
| J  | 1522      | 871/0 | 329/0                         | 0/0       | 0/0  | 322/0 | 0/0  |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.25 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 LC1 (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |          |
| FR-TO  |                           | FROM TO                       |                           | FR-TO |                           |                           |          |
| A-B    | 0/29                      | -84.3                         | -84.3 0.11 (1)            | 10.00 | Q-C                       | -230/82                   | 0.06 (1) |
| B-C    | -2264/0                   | -84.3                         | -84.3 0.34 (1)            | 4.25  | C-P                       | -269/0                    | 0.19 (1) |
| C-D    | -2070/0                   | -84.3                         | -84.3 0.32 (1)            | 4.43  | P-D                       | 0/367                     | 0.08 (2) |
| D-E    | -2083/0                   | -84.3                         | -84.3 0.41 (1)            | 4.29  | D-N                       | 0/487                     | 0.11 (1) |
| E-F    | -2070/0                   | -84.3                         | -84.3 0.41 (1)            | 4.29  | N-E                       | -587/0                    | 0.51 (1) |
| F-G    | -2070/0                   | -84.3                         | -84.3 0.32 (1)            | 4.43  | N-F                       | 0/487                     | 0.11 (1) |
| G-H    | -2264/0                   | -84.3                         | -84.3 0.34 (1)            | 4.25  | L-F                       | 0/367                     | 0.08 (2) |
| H-I    | 0/29                      | -84.3                         | -84.3 0.11 (1)            | 10.00 | L-G                       | -269/0                    | 0.19 (1) |
| R-B    | -1812/0                   | 0.0                           | 0.0 0.12 (1)              | 7.42  | K-G                       | -230/82                   | 0.08 (1) |
| J-H    | -1812/0                   | 0.0                           | 0.0 0.12 (1)              | 7.42  | B-Q                       | 0/2012                    | 0.45 (1) |
|        |                           |                               |                           |       | K-H                       | 0/2012                    | 0.45 (1) |
| R-Q    | 0/0                       | -28.0                         | -28.0 0.16 (3)            | 10.00 |                           |                           |          |
| Q-P    | 0/1976                    | -28.0                         | -28.0 0.40 (1)            | 10.00 |                           |                           |          |
| P-O    | 0/1770                    | -28.0                         | -28.0 0.39 (2)            | 10.00 |                           |                           |          |
| O-N    | 0/1770                    | -28.0                         | -28.0 0.39 (2)            | 10.00 |                           |                           |          |
| N-M    | 0/1770                    | -28.0                         | -28.0 0.39 (2)            | 10.00 |                           |                           |          |
| M-L    | 0/1770                    | -28.0                         | -28.0 0.39 (2)            | 10.00 |                           |                           |          |
| L-K    | 0/1976                    | -28.0                         | -28.0 0.40 (1)            | 10.00 |                           |                           |          |
| K-J    | 0/0                       | -28.0                         | -28.0 0.16 (3)            | 10.00 |                           |                           |          |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 46.1 PSF

SPACING = 24.0 IN. C/C

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

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

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (1.04")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.11")  
ALLOWABLE DEFL.(TL) =  $L/360$  (1.04")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.19")

CSI: TC=0.41 (D-E:1), BC=0.40 (K-L:1), WB=0.51 (E-N:1), SS=0.23 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

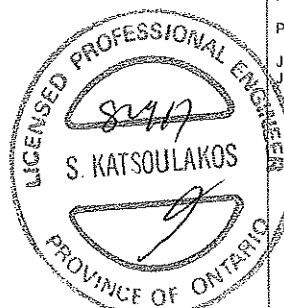
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (K) (INPUT = 0.80)  
JSI METAL= 0.51 (O) (INPUT = 1.00)

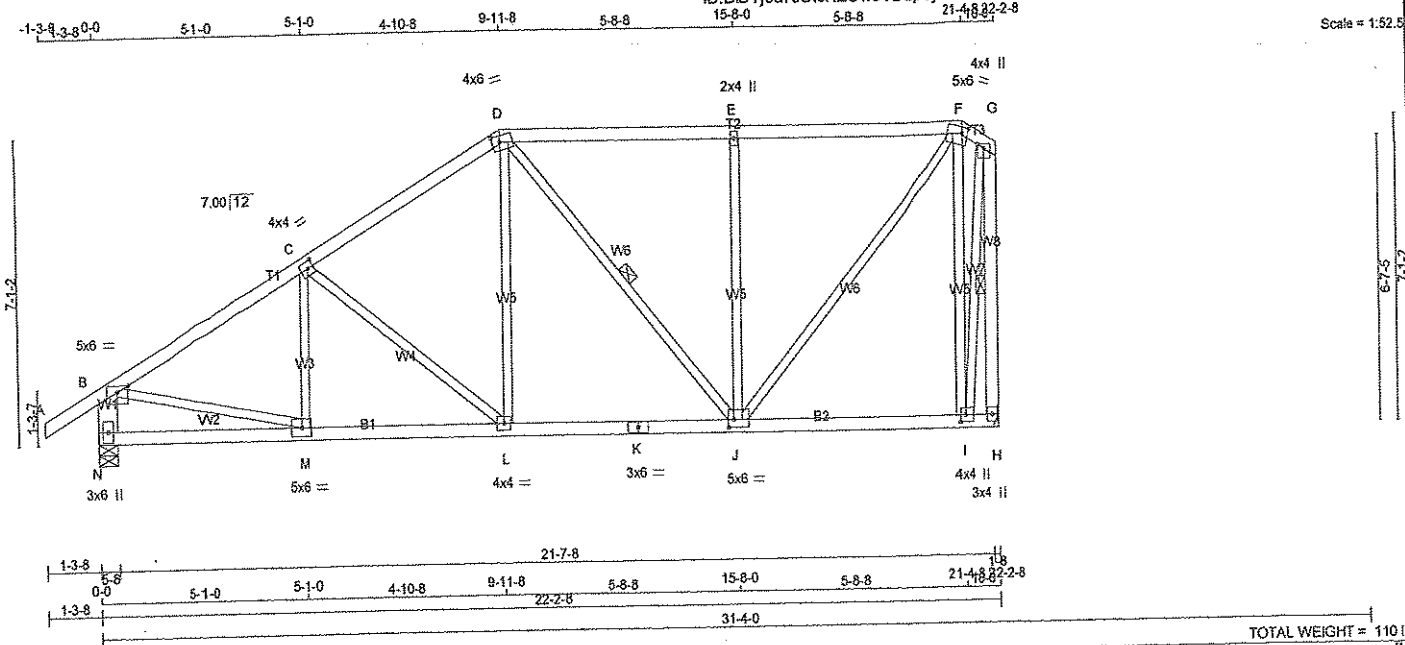


DWG NO. TAM 43794-17  
STRUCTURAL  
COMPONENT ONLY

|                                 |                          |                      |                 |                           |          |
|---------------------------------|--------------------------|----------------------|-----------------|---------------------------|----------|
| JOB NAME<br><b>282146</b>       | TRUSS NAME<br><b>T3A</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>43954</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.               |          |

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21-4882-2-8



TOTAL WEIGHT = 110 lb

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

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

| BEARINGS       |                  |        |        |
|----------------|------------------|--------|--------|
| FACTORED       | MAXIMUM FACTORED | INPUT  | REQ'D  |
| GROSS REACTION | GROSS REACTION   | BRG    | BRG    |
| DOWN           | DOWN             | UPLIFT | UPLIFT |
| IN-SX          | IN-SX            | IN-SX  | IN-SX  |
| JT             | 1361             | 0      | 0      |
| N              | 1246             | 0      | 0      |
| H              | 1246             | 0      | 0      |

| UNFACTORED REACTIONS |                               |         |         |
|----------------------|-------------------------------|---------|---------|
| 1ST CASE             | MAX. MIN. COMPONENT REACTIONS |         |         |
| JT                   | COMBINED                      | SNOW    | LIVE    |
| N                    | 1102                          | 638 / 0 | 233 / 0 |
| H                    | 1023                          | 588 / 0 | 233 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.88 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

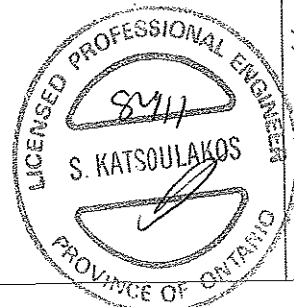
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

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

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

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

| CHORDS |                           |                           |                           |
|--------|---------------------------|---------------------------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) |
| FR-TO  |                           |                           |                           |
| A-B    | 0 / 29                    | -84.3                     | -84.3 0.11 (1)            |
| B-C    | -1502 / 0                 | -84.3                     | -84.3 0.41 (1)            |
| C-D    | -1188 / 0                 | -84.3                     | -84.3 0.38 (1)            |
| D-E    | -907 / 0                  | -84.3                     | -84.3 0.49 (1)            |
| E-F    | -907 / 0                  | -84.3                     | -84.3 0.49 (1)            |
| F-G    | -154 / 0                  | -84.3                     | -84.3 0.01 (1)            |
| N-B    | -1302 / 0                 | 0.0                       | 0.0 0.09 (1)              |
| H-G    | -1247 / 0                 | 0.0                       | 0.0 0.26 (1)              |
| N-M    | 0 / 0                     | -28.0                     | -28.0 0.16 (3)            |
| M-L    | 0 / 1318                  | -28.0                     | -28.0 0.31 (2)            |
| L-K    | 0 / 1017                  | -28.0                     | -28.0 0.33 (2)            |
| K-J    | 0 / 1017                  | -28.0                     | -28.0 0.33 (2)            |
| J-I    | 0 / 147                   | -28.0                     | -28.0 0.22 (2)            |
| I-H    | 0 / 0                     | -28.0                     | -28.0 0.11 (3)            |



**DESIGN CRITERIA**

| SPECIFIED LOADS: |            |
|------------------|------------|
| TOP CH. LL       | = 25.6 PSF |
| DL               | = 3.0 PSF  |
| BOT CH. LL       | = 10.5 PSF |
| DL               | = 7.0 PSF  |
| TOTAL LOAD       | = 46.1 PSF |

SPACING = 24.0 IN. C/C

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

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

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.74")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.08")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.74")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.10")

CSI: TC=0.49 (D-E:1), BC=0.33 (J-L:2), WB=0.91 (F-I:1), SSI=0.23 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE LEFT HEEL ONLY

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (F) (INPUT = 0.90)  
JSI METAL= 0.33 (M) (INPUT = 1.00)

DWG NO. TAM 43795-17  
STRUCTURAL  
COMPONENT ONLY

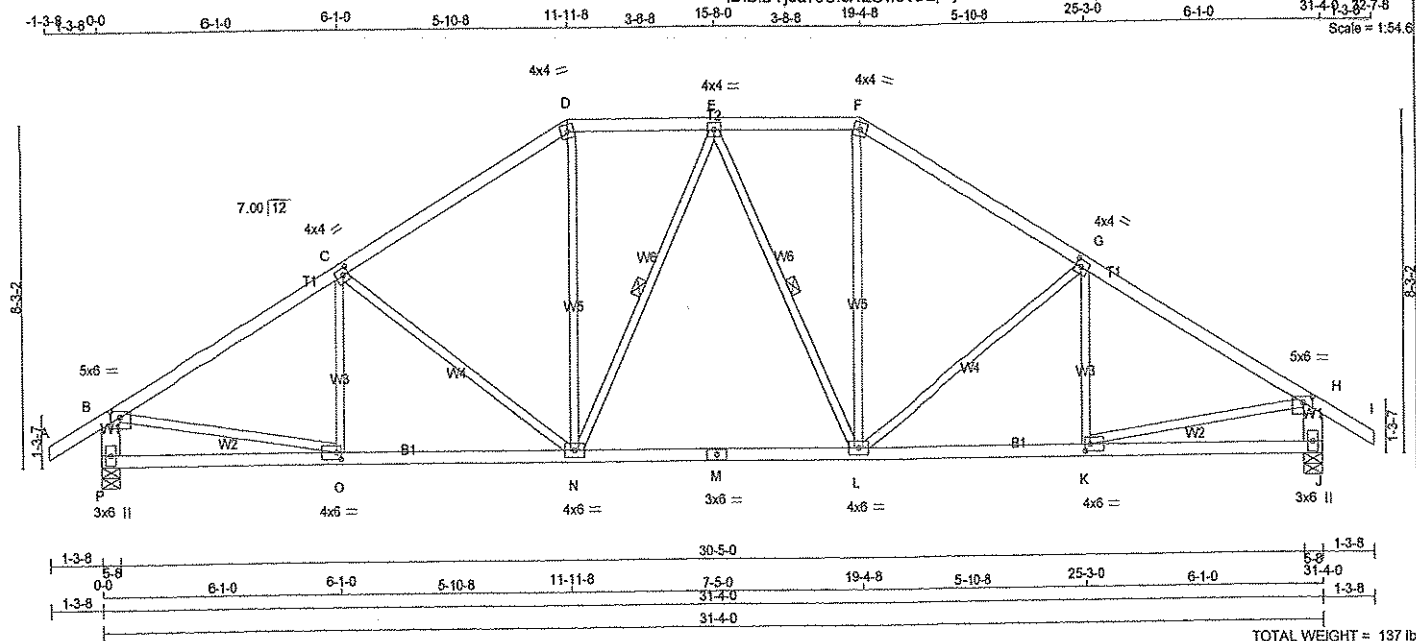
|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 43954 | DRWG NO. |
| 282146   | T4         | 1        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

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Scale = 1:54.6



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

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

| PLATES (table is in inches) |         |        |     | W   | LEN  | Y    | X |
|-----------------------------|---------|--------|-----|-----|------|------|---|
| JT                          | TYPE    | PLATES |     |     |      |      |   |
| B                           | TMWV-p  | MT20   | 5.0 | 6.0 | 1.75 | 2.75 |   |
| C                           | TMWV-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |   |
| D                           | TTW-m   | MT20   | 4.0 | 4.0 |      |      |   |
| E                           | TMWV-t  | MT20   | 4.0 | 4.0 |      |      |   |
| F                           | TTW-m   | MT20   | 4.0 | 4.0 |      |      |   |
| G                           | TMWV-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |   |
| H                           | TMWV-p  | MT20   | 5.0 | 6.0 | 1.75 | 2.75 |   |
| J                           | BMV1+p  | MT20   | 3.0 | 6.0 |      |      |   |
| K                           | BMWV-t  | MT20   | 4.0 | 6.0 | 2.00 | 1.50 |   |
| L                           | BMWVW-t | MT20   | 4.0 | 6.0 |      |      |   |
| M                           | BS-t    | MT20   | 3.0 | 6.0 |      |      |   |
| N                           | BMWVW-t | MT20   | 4.0 | 6.0 |      |      |   |
| O                           | BMWV-t  | MT20   | 4.0 | 6.0 | 2.00 | 1.50 |   |
| P                           | BMV1+p  | MT20   | 3.0 | 6.0 |      |      |   |

#### 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 |           |          |
| P  | 1874                    | 0    | 1874                            | 0    | 5-8       | 5-8      |
| J  | 1874                    | 0    | 1874                            | 0    | 5-8       | 5-8      |

#### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED |       | MAX./MIN. COMPONENT REACTIONS |      | WIND | DEAD  | SOIL |
|----|--------------------|-------|-------------------------------|------|------|-------|------|
|    | SNOW               | LIVE  | PERM.LIVE                     | WIND |      |       |      |
| P  | 1522               | 871/0 | 329/0                         | 0/0  | 0/0  | 322/0 | 0/0  |
| J  | 1522               | 871/0 | 329/0                         | 0/0  | 0/0  | 322/0 | 0/0  |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.05 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                        |                |                                 |                 | WEBS                       |       |                                 |                 |          |
|--------|------------------------|----------------|---------------------------------|-----------------|----------------------------|-------|---------------------------------|-----------------|----------|
| MEMB.  | MAX. FACTORED<br>(LBS) | FORCE<br>(LBS) | FACTORED<br>VERT. LOAD<br>(PLF) | LC1<br>C1 (L/C) | MAX.<br>UNBRACED<br>LENGTH | MEMB. | MAX. FACTORED<br>FORCE<br>(LBS) | MAX<br>C1 (L/C) |          |
| FR-TO  |                        |                | FROM                            | TO              |                            | FR-TO |                                 |                 |          |
| A-B    | 0/29                   |                | -84.3                           | -84.3           | 0.11 (1)                   | 10.00 | O-C                             | -142/160        | 0.05 (1) |
| B-C    | -2290/0                |                | -84.3                           | -84.3           | 0.50 (1)                   | 4.05  | C-N                             | -453/0          | 0.51 (1) |
| C-D    | -1934/0                |                | -84.3                           | -84.3           | 0.45 (1)                   | 4.39  | N-D                             | 0/647           | 0.15 (1) |
| D-E    | -1651/0                |                | -84.3                           | -84.3           | 0.16 (1)                   | 5.02  | E-L                             | -203/0          | 0.11 (1) |
| E-F    | -1651/0                |                | -84.3                           | -84.3           | 0.16 (1)                   | 5.02  | L-F                             | 0/647           | 0.15 (1) |
| F-G    | -1934/0                |                | -84.3                           | -84.3           | 0.45 (1)                   | 4.39  | L-G                             | -453/0          | 0.51 (1) |
| G-H    | -2290/0                |                | -84.3                           | -84.3           | 0.50 (1)                   | 4.05  | L-H                             | -142/160        | 0.05 (1) |
| H-I    | 0/29                   |                | -84.3                           | -84.3           | 0.11 (1)                   | 10.00 | K-G                             | -142/160        | 0.05 (1) |
| P-B    | -1802/0                |                | 0.0                             | 0.0             | 0.12 (1)                   | 7.43  | B-O                             | 0/2029          | 0.46 (1) |
| J-H    | -1802/0                |                | 0.0                             | 0.0             | 0.12 (1)                   | 7.43  | K-H                             | 0/2029          | 0.46 (1) |
|        |                        |                |                                 |                 |                            |       |                                 |                 |          |
| P-O    | 0/0                    |                | -28.0                           | -28.0           | 0.23 (3)                   | 10.00 |                                 |                 |          |
| O-N    | 0/2004                 |                | -28.0                           | -28.0           | 0.48 (2)                   | 10.00 |                                 |                 |          |
| N-M    | 0/1734                 |                | -28.0                           | -28.0           | 0.45 (2)                   | 10.00 |                                 |                 |          |
| M-L    | 0/1734                 |                | -28.0                           | -28.0           | 0.45 (2)                   | 10.00 |                                 |                 |          |
| L-K    | 0/2004                 |                | -28.0                           | -28.0           | 0.48 (2)                   | 10.00 |                                 |                 |          |
| K-J    | 0/0                    |                | -28.0                           | -28.0           | 0.23 (3)                   | 10.00 |                                 |                 |          |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 46.1 PSF

SPACING = 24.0 IN./C/C

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

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

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

(55 % OF 31.3 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $\frac{1}{360}$  (1.04")  
CALCULATED VERT. DEFL.(LL) =  $\frac{1}{999}$  (0.13")  
ALLOWABLE DEFL.(TL) =  $\frac{1}{360}$  (1.04")  
CALCULATED VERT. DEFL.(TL) =  $\frac{1}{999}$  (0.23")

CSI: TC=0.50 (B-C:1), BC=0.48 (N-O:2), WB=0.51 (C-N:1), SSI=0.21 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

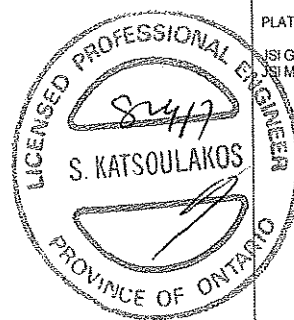
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SSI GRIP= 0.89 (M) (INPUT = 0.90)  
SSI METAL= 0.62 (M) (INPUT = 1.00)



DRWG NO. TAM 4379617  
STRUCTURAL  
COMPONENT ONLY

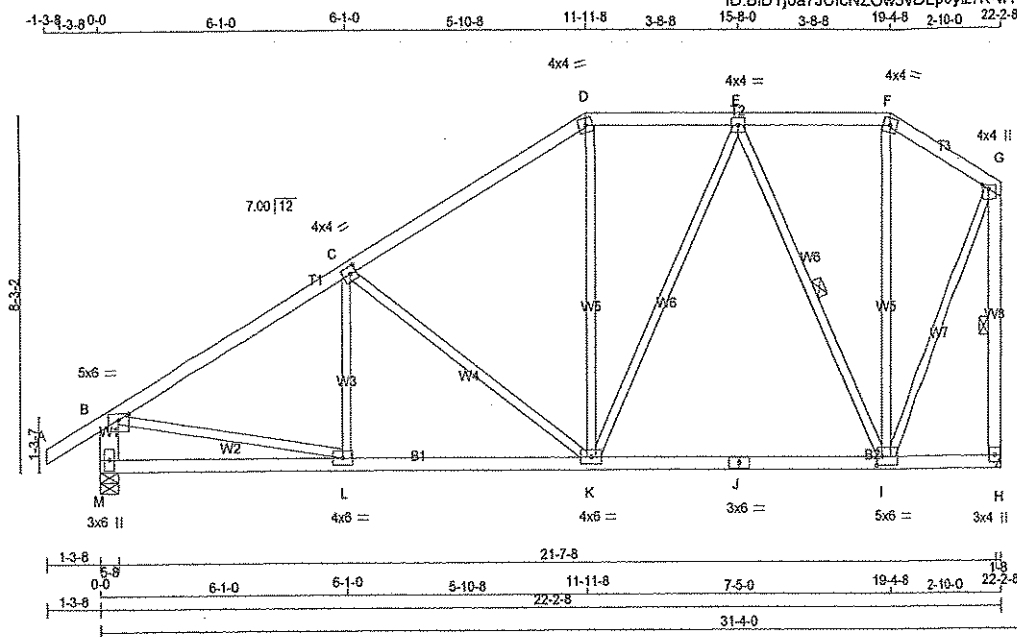
|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 43954 | DRWG NO. |
| 282146   | T4A        | 1        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

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ID: BIDYjoa7JUicNZOw3VDEpoyiz7K-wY9XZ44WCynCSJg9NabkQHNfLdxSsaNZWNlrylu6o

Scale = 1:52.5



TOTAL WEIGHT = 110 lb

#### LUMBER

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

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-p | MT20   | 5.0 | 6.0 | Edge |      |
| C  | TMWW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TTW-m  | MT20   | 4.0 | 4.0 |      |      |
| E  | TMWW-t | MT20   | 4.0 | 4.0 |      |      |
| F  | TTW-m  | MT20   | 4.0 | 4.0 |      |      |
| G  | TMVW-p | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| H  | BMVt+p | MT20   | 3.0 | 4.0 |      |      |
| I  | BMWW-t | MT20   | 5.0 | 6.0 | 2.50 | 1.50 |
| J  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| K  | BMWW-t | MT20   | 4.0 | 6.0 |      |      |
| L  | BMWW-t | MT20   | 4.0 | 6.0 |      |      |
| M  | BMVt+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                    | HORZ                            | DOWN      | HORZ     |
| M  | 1361                    | 0                               | 1361      | 0        |
| H  | 1246                    | 0                               | 1246      | 0        |

##### UNFACTORED REACTIONS

|    | 1ST LCASE | MAX/MIN | COMPONENT REACTIONS |            |       |         |       |
|----|-----------|---------|---------------------|------------|-------|---------|-------|
| JT | COMBINED  | SNOW    | LIVE                | PERM. LIVE | WIND  | DEAD    | SOIL  |
| M  | 1102      | 638 / 0 | 233 / 0             | 0 / 0      | 0 / 0 | 230 / 0 | 0 / 0 |
| H  | 1023      | 568 / 0 | 233 / 0             | 0 / 0      | 0 / 0 | 222 / 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 = 4.87 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-I, G-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. FACTORED CS (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CS (LC) |          |
| FR-TO  |                           | FROM TO                   |                       | FR-TO |                           |                       |          |
| A-B    | 0 / 29                    | -84.3 -84.3               | 0.11 (1)              | 10.00 | L-C                       | -31 / 215             | 0.05 (3) |
| B-C    | -1495 / 0                 | -84.3 -84.3               | 0.44 (1)              | 4.87  | C-K                       | -558 / 0              | 0.82 (1) |
| C-D    | -1042 / 0                 | -84.3 -84.3               | 0.40 (1)              | 5.63  | K-D                       | 0 / 257               | 0.06 (2) |
| D-E    | -875 / 0                  | -84.3 -84.3               | 0.15 (1)              | 6.25  | K-E                       | 0 / 355               | 0.08 (1) |
| E-F    | -409 / 0                  | -84.3 -84.3               | 0.15 (1)              | 6.25  | E-I                       | -775 / 0              | 0.41 (1) |
| F-G    | -475 / 0                  | -84.3 -84.3               | 0.09 (1)              | 6.25  | I-F                       | 0 / 107               | 0.02 (3) |
| M-B    | -1290 / 0                 | 0.0 0.0                   | 0.08 (1)              | 7.81  | I-G                       | 0 / 688               | 0.22 (1) |
| H-G    | -1237 / 0                 | 0.0 0.0                   | 0.26 (1)              | 5.77  | B-L                       | 0 / 1334              | 0.30 (1) |
| M-L    | 0 / 0                     | -28.0 -28.0               | 0.23 (3)              | 10.00 |                           |                       |          |
| L-K    | 0 / 1317                  | -28.0 -28.0               | 0.41 (2)              | 10.00 |                           |                       |          |
| K-J    | 0 / 728                   | -28.0 -28.0               | 0.34 (2)              | 10.00 |                           |                       |          |
| J-I    | 0 / 728                   | -28.0 -28.0               | 0.34 (2)              | 10.00 |                           |                       |          |
| I-H    | 0 / 0                     | -28.0 -28.0               | 0.23 (3)              | 10.00 |                           |                       |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 25.6 | PSF |
|            | DL = 3.0  | PSF |
| BOT CH.    | LL = 10.5 | PSF |
|            | DL = 7.0  | PSF |
| TOTAL LOAD | = 46.1    | PSF |

SPACING = 24.0 IN. C/C

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

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

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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) =  $L/360$  (0.74")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.08")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.74")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.14")

CSI: TC=0.44 (B-C:1), BC=0.41 (K-L:2), WB=0.62 (C-K:1), SSI=0.21 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE LEFT HEEL ONLY

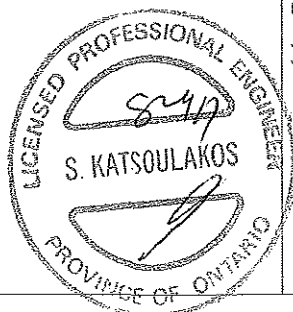
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

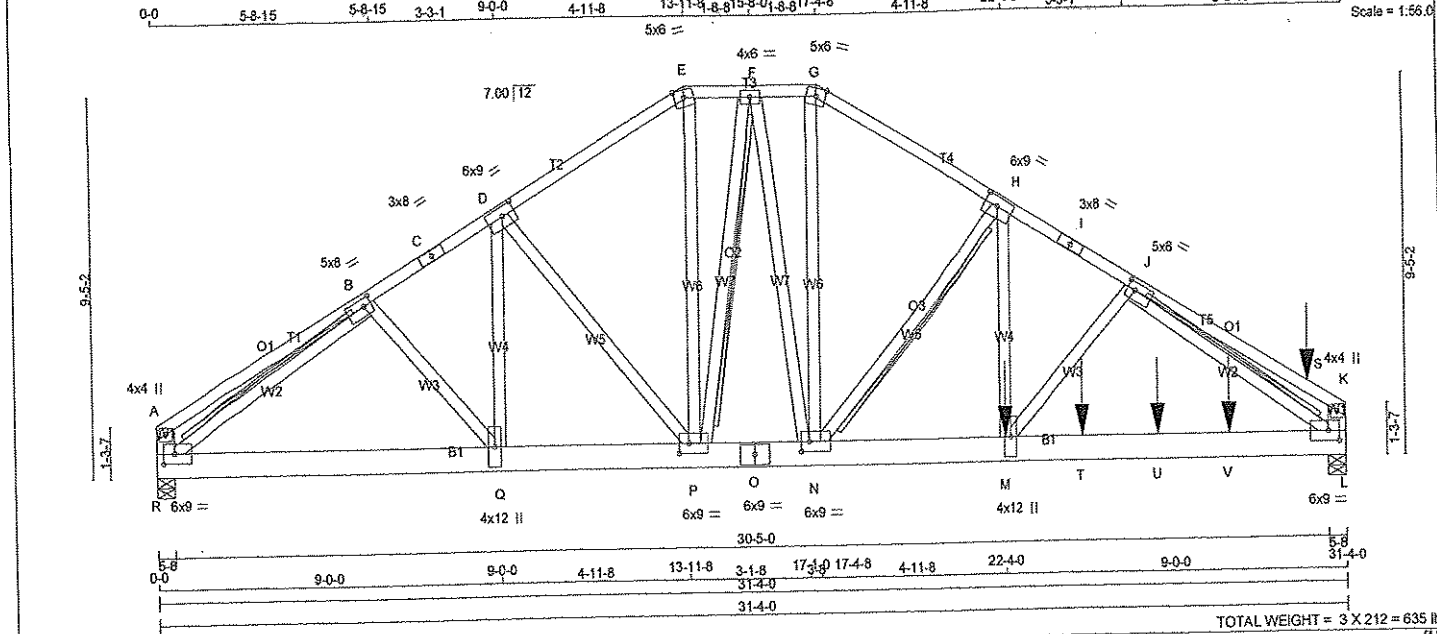
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.66 (I) (INPUT = 0.60)  
JSI METAL= 0.46 (J) (INPUT = 1.00)



DWG NO. TAM 43797-17  
STRUCTURAL  
COMPONENT ONLY



**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    |
| I - K           | 2x4  | DRY No.2       | SPF    |
| R - A           | 2x6  | DRY No.2       | SPF    |
| L - K           | 2x6  | DRY No.2       | SPF    |
| R - O           | 2x8  | DRY 1950F 1.7E | SPF    |
| O - L           | 2x8  | DRY 1950F 1.7E | SPF    |
| ALL WEBS EXCEPT | 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 - C                                    | 1                    | 5          |
| C - E                                    | 1                    | 12         |
| E - G                                    | 1                    | 12         |
| G - I                                    | 1                    | 12         |
| I - K                                    | 1                    | 5          |
| R - A                                    | 2                    | 12         |
| L - K                                    | 2                    | 12         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |            |
| R - O                                    | 2                    | 5          |
| O - L                                    | 2                    | 5          |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |            |
| H - M                                    | 2                    | 4          |
| 2x4                                      | 2                    | 4          |
| P - D                                    | 1                    | 6          |
| P - E                                    | 1                    | 6          |
| N - G                                    | 1                    | 6          |
| N - H                                    | 1                    | 6          |
| R - B                                    | 1                    | 6          |
| L - J                                    | 1                    | 6          |
| P - F                                    | 1                    | 6          |
| N - F                                    | 1                    | 6          |
| B - Q                                    | 1                    | 6          |
| M - J                                    | 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       | MTW+p  | MT20 | 4.0 | 4.0 |           |
| B       | MTWV-t | MT20 | 5.0 | 8.0 | 2.25 2.50 |
| C       | TS-I   | MT20 | 3.0 | 8.0 |           |
| D       | MTWV-l | MT20 | 6.0 | 9.0 | 2.75 4.00 |
| E       | TTW-m  | MT20 | 5.0 | 6.0 | Edge      |

**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                 | 4701                            | 0               | 0              |
| R VERT                  | 12024                           | 0               | 0              |
| L VERT                  | 12024                           | 0               | 0              |

**UNFACTORED REACTIONS**

| 1ST LCASE   | MAX/MIN. COMPONENT REACTIONS | DEAD   | SOIL |
|-------------|------------------------------|--------|------|
| JT COMBINED | 3824                         | 811/0  | 0/0  |
| R COMBINED  | 2181/0                       | 832/0  | 0/0  |
| L COMBINED  | 5621/0                       | 2077/0 | 0/0  |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.67 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

2x6 DRY SPF No.2 T-BRACE AT H-N, B-R, J-L, F-P

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

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

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

| CHORDS | MAX. FACTORED MEMB. FORCE (LBS) | FACTORED VERT. LOAD (LBS) | LC1 MAX (LBS) | MAX. UNBRACED LENGTH FR-TO | WEBS  | MAX. FACTORED MEMB. FORCE (LBS) | MAX. UNBRACED LENGTH FR-TO |
|--------|---------------------------------|---------------------------|---------------|----------------------------|-------|---------------------------------|----------------------------|
| FR-TO  | 0/16                            | -84.3                     | -84.3         | 0.11 (1)                   | 10.00 | Q-D                             | -266/98                    |
| A-B    | -7200/0                         | -84.3                     | -84.3         | 0.15 (1)                   | 4.33  | D-P                             | -134/0                     |
| C-D    | -7200/0                         | -84.3                     | -84.3         | 0.15 (1)                   | 4.33  | P-E                             | 0/3202                     |
| D-E    | -7136/0                         | -84.3                     | -84.3         | 0.20 (1)                   | 4.33  | N-G                             | 0/3670                     |
| E-F    | -6198/0                         | -84.3                     | -84.3         | 0.13 (1)                   | 4.61  | N-H                             | -9588/0                    |
| F-G    | -7070/0                         | -84.3                     | -84.3         | 0.14 (1)                   | 4.35  | M-H                             | 0/10686                    |
| G-H    | -8127/0                         | -84.3                     | -84.3         | 0.25 (1)                   | 4.06  | R-B                             | -7370/0                    |
| H-I    | -15327/0                        | -84.3                     | -84.3         | 0.60 (1)                   | 2.67  | J-L                             | -15903/0                   |
| I-J    | -15327/0                        | -84.3                     | -84.3         | 0.60 (1)                   | 2.67  | P-F                             | -2471/0                    |
| J-S    | -155/0                          | -84.3                     | -84.3         | 0.56 (1)                   | 6.25  | F-N                             | 0/2625                     |
| S-K    | -155/0                          | -84.3                     | -84.3         | 0.56 (1)                   | 6.25  | B-Q                             | 0/408                      |
| R-A    | -201/0                          | 0.0                       | 0.0           | 0.00 (1)                   | 7.81  | M-J                             | 0/894                      |
| L-K    | -1189/0                         | 0.0                       | 0.0           | 0.03 (1)                   | 7.81  |                                 |                            |
| R-Q    | 0/5947                          | -28.0                     | -28.0         | 0.11 (1)                   | 10.00 |                                 |                            |
| Q-P    | 0/6216                          | -28.0                     | -28.0         | 0.12 (1)                   | 10.00 |                                 |                            |
| P-O    | 0/6655                          | -28.0                     | -28.0         | 0.16 (1)                   | 10.00 |                                 |                            |
| O-N    | 0/6655                          | -28.0                     | -28.0         | 0.16 (1)                   | 10.00 |                                 |                            |
| N-M    | 0/13182                         | -28.0                     | -28.0         | 0.40 (1)                   | 10.00 |                                 |                            |
| M-T    | 0/12595                         | -28.0                     | -28.0         | 0.56 (1)                   | 10.00 |                                 |                            |
| T-U    | 0/12595                         | -28.0                     | -28.0         | 0.56 (1)                   | 10.00 |                                 |                            |
| U-V    | 0/12595                         | -28.0                     | -28.0         | 0.56 (1)                   | 10.00 |                                 |                            |
| V-L    | 0/12595                         | -28.0                     | -28.0         | 0.56 (1)                   | 10.00 |                                 |                            |

**FACTORED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1 MAX | MAX+  | FACE | DIR. | TYPE |
|----|---------|---------|-------|------|------|------|
| M  | 22-4-0  | -7841   | -7841 | ---  | BACK | VERT |
| S  | 30-3-4  | -1299   | -1299 | ---  | BACK | VERT |
| T  | 24-4-12 | -1358   | -1358 | ---  | BACK | VERT |
| U  | 26-4-12 | -1358   | -1358 | ---  | BACK | VERT |
| V  | 28-3-4  | -1358   | -1358 | ---  | BACK | VERT |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 25.6 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 46.1 PSF

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

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

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

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (1.04")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.24")  
ALLOWABLE DEFL.(TL) =  $L/360$  (1.04")  
CALCULATED VERT. DEFL.(TL) =  $L/974$  (0.39")

CSI: TC=0.69 (H-J-1), BC=0.58 (L-M-1), WB=0.90 (J-L-1), SSI=0.48 (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 = 0.50

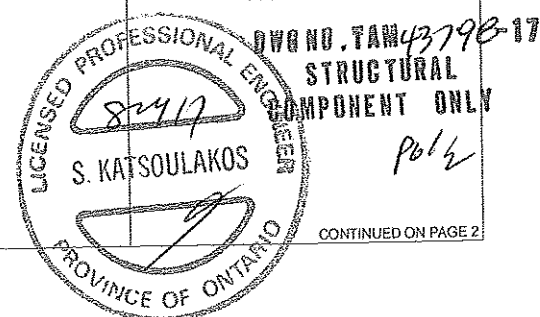
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90)  
JSI METAL= 0.99 (B) (INPUT = 1.00)



|                           |                         |                      |                 |                                |          |
|---------------------------|-------------------------|----------------------|-----------------|--------------------------------|----------|
| JOB NAME<br><b>282146</b> | TRUSS NAME<br><b>T5</b> | QUANTITY<br><b>1</b> | PLY<br><b>3</b> | JOB DESC. 43954<br>TRUSS DESC. | DRWG NO. |
|---------------------------|-------------------------|----------------------|-----------------|--------------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 Mitek Industries, Inc. Tue Aug 29 20:54:36 2017 Page 2  
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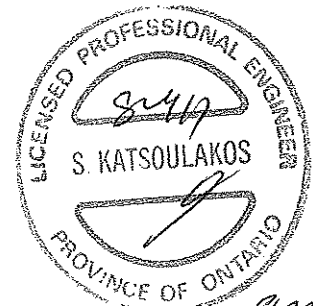
**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN  | Y    | X    |
|----|---------|--------|-----|------|------|------|
| F  | TMWW-t  | MT20   | 4.0 | 6.0  |      |      |
| G  | TTW-m   | MT20   | 6.0 | 6.0  | Edge |      |
| H  | TMWW-t  | MT20   | 6.0 | 9.0  | 2.75 | 4.00 |
| I  | TS-t    | MT20   | 3.0 | 8.0  |      |      |
| J  | TMWW-t  | MT20   | 5.0 | 8.0  | 2.25 | 2.50 |
| K  | TMV+p   | MT20   | 4.0 | 4.0  |      |      |
| L  | BMVW1-t | MT20   | 6.0 | 9.0  | 3.00 | 3.50 |
| M  | BMWWH-t | MT20   | 4.0 | 12.0 |      |      |
| N  | BMWWH-t | MT20   | 6.0 | 9.0  | 3.00 | 2.50 |
| O  | BS-t    | MT20   | 6.0 | 9.0  |      |      |
| P  | BMWWH-t | MT20   | 6.0 | 9.0  | 3.00 | 3.00 |
| Q  | BMWWH-t | MT20   | 4.0 | 12.0 |      |      |
| R  | BMVW1-t | MT20   | 6.0 | 9.0  | 3.00 | 3.50 |

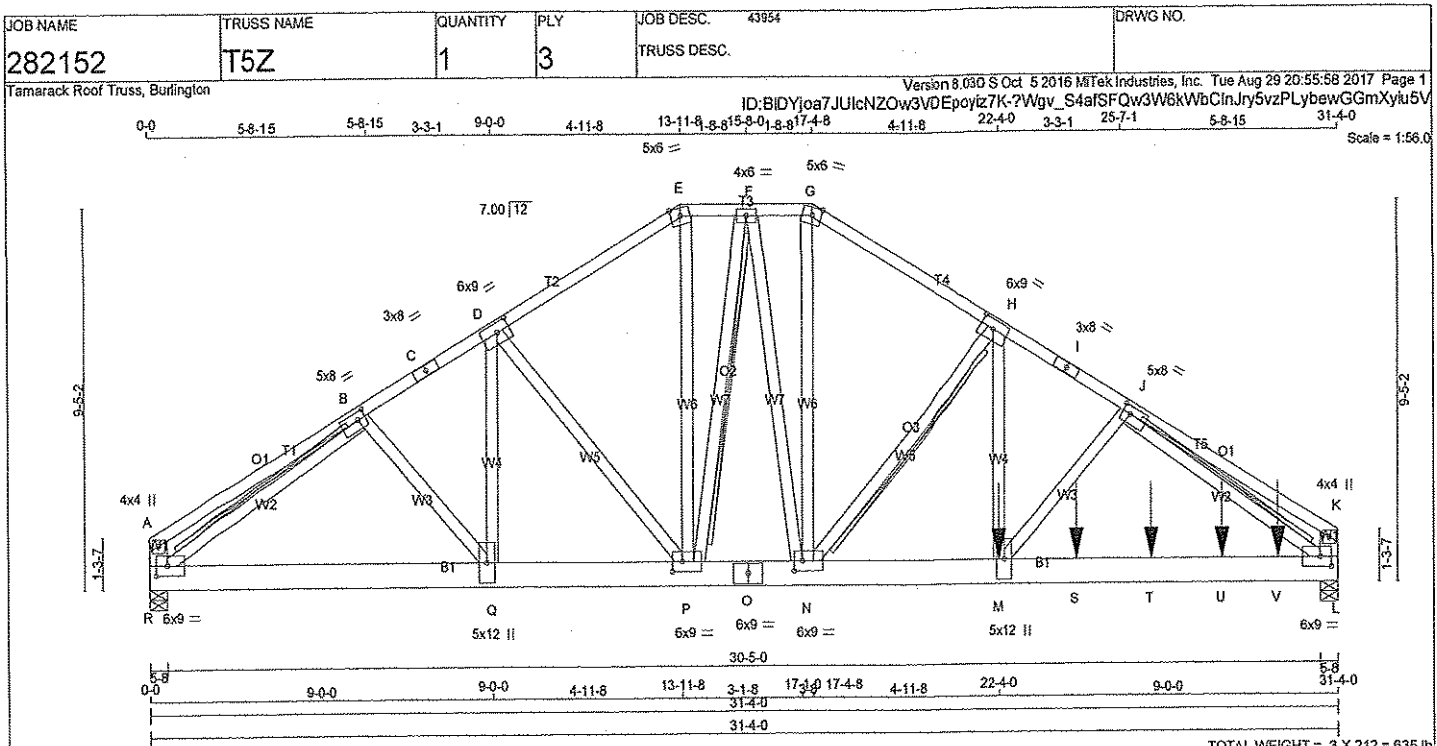
Edge - INDICATES REFERENCE CORNER OF PLATE  
TOUCHES EDGE OF CHORD.

**HANGERS NOTES**

- 1) SPECIAL HANGER(S) OR CONNECTION(S)  
REQUIRED TO SUPPORT CONCENTRATED  
LOAD(S) 1269.5 lbs FACTORED DOWN AT  
30-3-4 ON TOP CHORD, AND 7841.2 lbs  
FACTORED DOWN AT 22-4-0, 1355.7 lbs  
FACTORED DOWN AT 24-4-12, AND 1355.7 lbs  
FACTORED DOWN AT 26-4-12, AND 1355.7 lbs  
FACTORED DOWN AT 28-3-4 ON BOTTOM  
CHORD. DESIGN FOR UNSPECIFIED  
CONNECTION(S) IS DELEGATED TO THE  
BUILDING DESIGNER.



DWG NO. TAM 4379B-17  
STRUCTURAL  
COMPONENT ONLY



TOTAL WEIGHT = 3 X 212 = 635 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       |
| I - K             | 2x4  | DRY    | No.2 SPF       |
| R - A             | 2x6  | DRY    | No.2 SPF       |
| L - K             | 2x6  | DRY    | No.2 SPF       |
| R - O             | 2x8  | DRY    | 1950F 1.7E SPF |
| O - L             | 2x8  | DRY    | 1950F 1.7E SPF |
| ALL WEBS EXCEPT   | 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 - C                                   | 12                   | TOP          |
| C - E                                   | 12                   | TOP          |
| E - G                                   | 12                   | TOP          |
| G - I                                   | 12                   | TOP          |
| I - K                                   | 12                   | TOP          |
| R - A                                   | 12                   | TOP          |
| L - K                                   | 12                   | TOP          |
| BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS |                      |              |
| R - O                                   | 5                    | TOP          |
| O - L                                   | 5                    | SIDE(1061.0) |
| WEBS: (0.122"x3") SPIRAL NAILS          |                      |              |
| H - M                                   | 4                    | SIDE(1628.7) |
| 2x4                                     | 4                    |              |
| P - D                                   | 6                    |              |
| P - E                                   | 6                    |              |
| N - G                                   | 6                    |              |
| N - H                                   | 6                    |              |
| R - B                                   | 6                    |              |
| L - J                                   | 6                    |              |
| P - F                                   | 6                    |              |
| N - F                                   | 6                    |              |
| B - Q                                   | 6                    |              |
| M - J                                   | 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                           | TMW+p  | MT20   | 4.0 | 4.0           |
| B                           | TMWW-I | MT20   | 5.0 | 8.0 2.25 2.50 |
| C                           | TS-I   | MT20   | 3.0 | 8.0           |
| D                           | TMWW-I | MT20   | 6.0 | 9.0 2.75 4.00 |
| E                           | TTW-m  | MT20   | 5.0 | 6.0 Edge      |

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

| BEARINGS |       | FACTORED       |      | MAXIMUM FACTORED |      | INPUT |       | REQD |       |
|----------|-------|----------------|------|------------------|------|-------|-------|------|-------|
| JT       | VERT  | GROSS REACTION | HORZ | GROSS REACTION   | HORZ | BRG   | IN-SX | BRG  | IN-SX |
| R        | 4725  | 0              | 0    | 4725             | 0    | 0     | 5-8   | 5-8  | 5-8   |
| L        | 12057 | 0              | 0    | 12057            | 0    | 0     | 5-8   | 5-8  | 5-8   |

| UNFACTORED REACTIONS                    |          |          |          |           |       |          |       |
|-----------------------------------------|----------|----------|----------|-----------|-------|----------|-------|
| 1ST LCASE MAX./MIN. COMPONENT REACTIONS |          |          |          |           |       |          |       |
| JT                                      | COMBINED | SNOW     | LIVE     | PERM.LIVE | WIND  | DEAD     | SOIL  |
| R                                       | 3842     | 2193 / 0 | 835 / 0  | 0 / 0     | 0 / 0 | 814 / 0  | 0 / 0 |
| L                                       | 9745     | 5660 / 0 | 2053 / 0 | 0 / 0     | 0 / 0 | 2032 / 0 | 0 / 0 |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.87 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

2x6 DRY SPF No.2 T-BRACE AT H-N, B-R, J-L, F-P

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

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

| CHORDS |             | WEBS  |             |
|--------|-------------|-------|-------------|
| MEMB.  | FORCE (LBS) | MEMB. | FORCE (LBS) |
| FR-TO  | FROM TO     | FR-TO | FROM TO     |
| A-B    | 0 / 16      | Q-D   | -277 / 94   |
| B-C    | -7239 / 0   | D-P   | -128 / 0    |
| C-D    | -7239 / 0   | P-E   | 0 / 3224    |
| D-E    | -7182 / 0   | N-G   | 0 / 3700    |
| E-F    | -6239 / 0   | N-H   | -8880 / 0   |
| F-G    | -7094 / 0   | M-H   | 0 / 10358   |
| G-H    | -8183 / 0   | R-B   | -7408 / 0   |
| H-I    | -15499 / 0  | J-L   | -15537 / 0  |
| I-J    | -15499 / 0  | P-F   | -2422 / 0   |
| J-K    | -4 / 7      | F-N   | 0 / 2579    |
| R-A    | -201 / 0    | B-Q   | 0 / 412     |
| L-K    | -217 / 0    | M-J   | 0 / 1302    |
| R-Q    | 0 / 5979    |       |             |
| Q-P    | 0 / 6249    |       |             |
| P-O    | 0 / 8886    |       |             |
| O-N    | 0 / 6686    |       |             |
| N-M    | 0 / 13394   |       |             |
| M-S    | 0 / 12538   |       |             |
| S-T    | 0 / 12538   |       |             |
| T-U    | 0 / 12538   |       |             |
| U-V    | 0 / 12538   |       |             |
| V-L    | 0 / 12538   |       |             |

| FACTORED CONCENTRATED LOADS (LBS) |         |       |       |      |
|-----------------------------------|---------|-------|-------|------|
| JT                                | LOC.    | LC1   | MAX.  | MAX+ |
| M                                 | 22-4-0  | -7841 | -7841 | ---  |
| S                                 | 24-4-12 | -1356 | -1356 | ---  |
| T                                 | 26-4-12 | -1356 | -1356 | ---  |
| U                                 | 28-3-4  | -1356 | -1356 | ---  |
| V                                 | 29-9-4  | -1356 | -1356 | ---  |

DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 46.1 PSF

SPACING = 24.0 IN. C/C

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

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

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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.04")  
CALCULATED VERT. DEFL.(LL) = L/899 (0.27")  
ALLOWABLE DEFL.(TL) = L/360 (1.04")  
CALCULATED VERT. DEFL.(TL) = L/884 (0.43")

CSI: TC=0.40 (H-J-1), EC=0.62 (L-M-1), WB=0.89 (J-L-1), SS=0.54 (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 = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (P) (INPUT = 0.90)  
JSI METAL= 0.98 (B) (INPUT = 1.00)



DWG NO. TAM43812-17  
STRUCTURAL  
COMPONENT ONLY  
P614

|                           |                          |                      |                 |                                |          |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------|----------|
| JOB NAME<br><b>282152</b> | TRUSS NAME<br><b>T5Z</b> | QUANTITY<br><b>1</b> | PLY<br><b>3</b> | JOB DESC. 43854<br>TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------|----------|

Tamarack Roof Truss, Burlington

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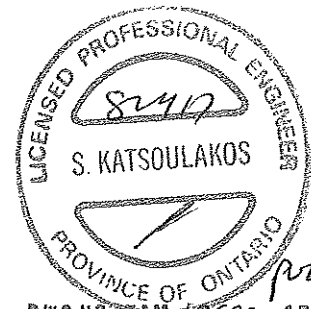
**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN  | Y    | X    |
|----|---------|--------|-----|------|------|------|
| F  | TMWW-t  | MT20   | 4.0 | 6.0  |      |      |
| G  | TTW-m   | MT20   | 5.0 | 6.0  | Edge |      |
| H  | TMWW-t  | MT20   | 6.0 | 9.0  | 2.75 | 4.00 |
| I  | TS-t    | MT20   | 3.0 | 8.0  |      |      |
| J  | TMWW-t  | MT20   | 5.0 | 8.0  | 2.25 | 2.50 |
| K  | TMV+p   | MT20   | 4.0 | 4.0  |      |      |
| L  | BMVW1-t | MT20   | 6.0 | 9.0  | 3.00 | 3.50 |
| M  | BMWWH-t | MT20   | 5.0 | 12.0 |      |      |
| N  | BMWWH-t | MT20   | 8.0 | 9.0  | 3.00 | 2.50 |
| O  | BS-t    | MT20   | 8.0 | 9.0  |      |      |
| P  | BMWWH-t | MT20   | 8.0 | 9.0  | 3.00 | 3.00 |
| Q  | BMWWH-t | MT20   | 5.0 | 12.0 |      |      |
| R  | BMVW1-t | MT20   | 6.0 | 9.0  | 3.00 | 3.50 |

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

**HANGERS NOTES**

- 1) SPECIAL HANGER(S) OR CONNECTION(S)  
REQUIRED TO SUPPORT CONCENTRATED  
LOAD(S) 7841.2 lbs FACTORED DOWN AT  
22-4-0, 1355.7 lbs FACTORED DOWN AT  
24-4-12, 1355.7 lbs FACTORED DOWN AT  
26-4-12, AND 1355.7 lbs FACTORED DOWN AT  
28-3-4, AND 1355.7 lbs FACTORED DOWN AT  
29-9-4 ON BOTTOM CHORD. DESIGN FOR  
UNSPECIFIED CONNECTION(S) IS DELEGATED  
TO THE BUILDING DESIGNER.



DWG NO. TAM-3822-17

STRUCTURAL  
COMPONENT ONLY

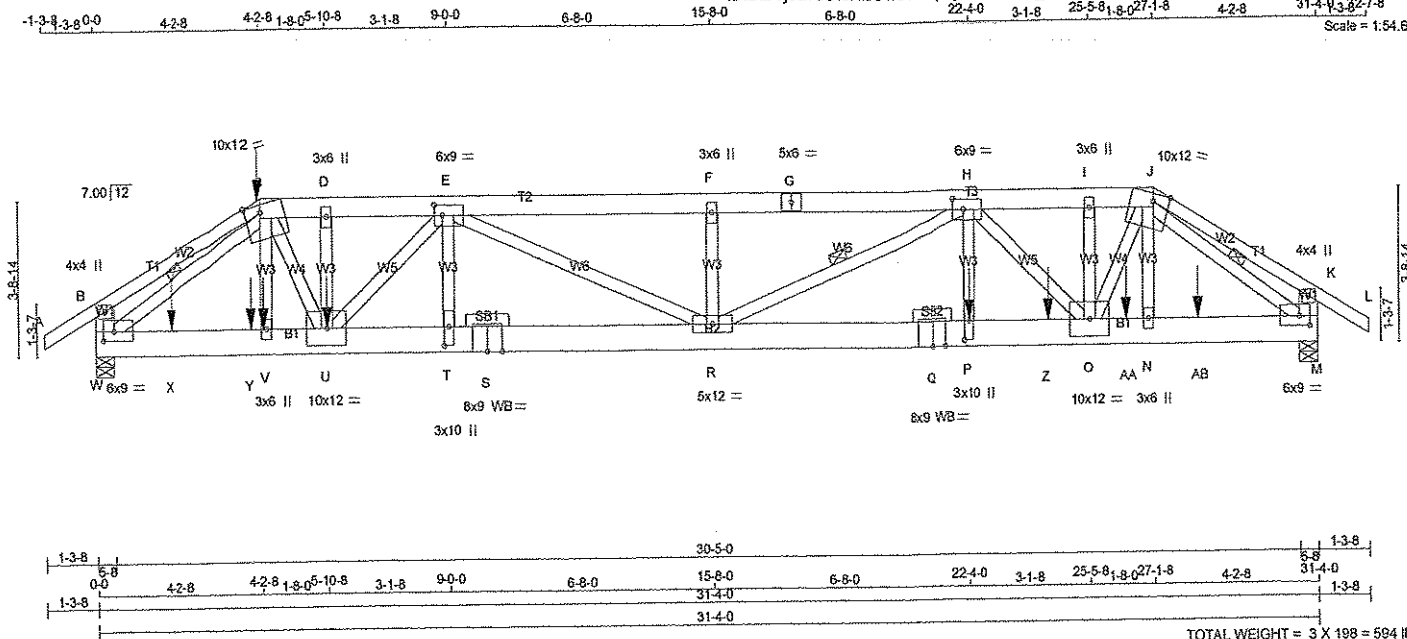
|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 43954 | DRWG NO. |
| 282146   | T6         | 1        | 3   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

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Scale = 1:54.6



| LUMBER          | N. L. G. A. RULES | CHORDS     | SIZE | LUMBER | DESCR. |
|-----------------|-------------------|------------|------|--------|--------|
| A - C           | 2x4 DRY           | No.2       | SPF  |        |        |
| C - G           | 2x6 DRY           | No.2       | SPF  |        |        |
| G - J           | 2x6 DRY           | No.2       | SPF  |        |        |
| J - L           | 2x4 DRY           | No.2       | SPF  |        |        |
| W - B           | 2x6 DRY           | No.2       | SPF  |        |        |
| M - K           | 2x6 DRY           | No.2       | SPF  |        |        |
| W - S           | 2x8 DRY           | 1950F 1.7E | SPF  |        |        |
| S - Q           | 2x8 DRY           | 1950F 1.7E | SPF  |        |        |
| Q - M           | 2x8 DRY           | 1950F 1.7E | SPF  |        |        |
| ALL WEBS EXCEPT | 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 - C                                    | 12                   | SIDE(91.5)   |
| J - L                                    | 12                   | TOP          |
| C - G                                    | 12                   | SIDE(91.5)   |
| G - J                                    | 12                   | TOP          |
| W - B                                    | 12                   | TOP          |
| M - K                                    | 12                   | TOP          |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |              |
| W - S                                    | 4                    | SIDE(1556.5) |
| S - Q                                    | 12                   | TOP          |
| Q - M                                    | 4                    | SIDE(1556.5) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |              |
| H - P                                    | 4                    | SIDE(721.5)  |
| 2x4                                      | 6                    |              |
| D - U                                    | 5                    |              |
| E - T                                    | 4                    |              |
| I - O                                    | 5                    |              |

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-5 INCH NAILS.

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

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

| PLATES (table is in inches) | JT TYPE | PLATES | W    | LEN  | Y    | X |
|-----------------------------|---------|--------|------|------|------|---|
| B TMV+p                     | MT20    | 4.0    | 4.0  |      |      |   |
| C TTWWV-m                   | MT20    | 10.0   | 12.0 | Edge | 5.00 |   |
| D, F, I                     |         |        |      |      |      |   |
| E TMV+w                     | MT20    | 3.0    | 6.0  |      |      |   |
| F TMV+w                     | MT20    | 6.0    | 9.0  | 3.00 | 2.50 |   |
| G TS-I                      | MT20    | 5.0    | 6.0  |      |      |   |
| H TMV+w                     | MT20    | 6.0    | 9.0  | 3.00 | 3.00 |   |
| J TTWWV-m                   | MT20    | 10.0   | 12.0 | Edge | 5.00 |   |
| K TMV+p                     | MT20    | 4.0    | 4.0  |      |      |   |
| M BMVW-1                    | MT20    | 6.0    | 9.0  | 2.75 | 3.25 |   |
| N BMVW+w                    | MT20    | 3.0    | 6.0  |      |      |   |
| O BMVW-1                    | MT20    | 10.0   | 12.0 |      |      |   |

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

| BEARINGS | FACTORED       |      | MAXIMUM FACTORED |         | INPUT BRG | REQD BRG |
|----------|----------------|------|------------------|---------|-----------|----------|
|          | GROSS REACTION | DOWN | GROSS REACTION   | UP/LIFT |           |          |
| JT       | VERT           | HORZ | DOWN             | HORZ    | IN-SX     | IN-SX    |
| W        | 7363           | 0    | 7363             | 0       | 5-8       | 5-8      |
| M        | 11294          | 0    | 11294            | 0       | 5-8       | 5-8      |

UNFACTORED REACTIONS

| 1ST LCASE | MAX./MIN. COMPONENT REACTIONS |          |          |           |       |          |
|-----------|-------------------------------|----------|----------|-----------|-------|----------|
|           | COMBINED                      | SNOW     | LIVE     | PERM.LIVE | WIND  | DEAD     |
| JT        | 5929                          | 3477 / 0 | 1224 / 0 | 0 / 0     | 0 / 0 | 1228 / 0 |
| M         | 9153                          | 5275 / 0 | 1955 / 0 | 0 / 0     | 0 / 0 | 1923 / 0 |

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.11 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF H-R, C-W, J-M.

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 | MEMB. | MAX. FACTORED   |             | MAX. FACTORED |              |
| MEMB.         | FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX CSI (LC) |               |       | UNBRACED LENGTH | FORCE (LBS) |               | MAX CSI (LC) |
| FR-TO         |             | FROM             | TO               |               | FR-TO |                 |             |               |              |
| A-B           | 0 / 29      | -84.3            | -84.3            | 0.04 (1)      | 10.00 | V-C             | 0 / 477     | 0.03 (2)      |              |
| B-C           | 0 / 0       | -84.3            | -84.3            | 0.08 (1)      | 10.00 | C-U             | 0 / 6600    | 0.35 (1)      |              |
| C-D           | -12017 / 0  | -84.3            | -84.3            | 0.15 (1)      | 4.22  | U-D             | -44 / 22    | 0.00 (1)      |              |
| D-E           | -12019 / 0  | -84.3            | -84.3            | 0.16 (1)      | 4.22  | E-U             | -5216 / 0   | 0.37 (1)      |              |
| E-F           | -21037 / 0  | -84.3            | -84.3            | 0.39 (1)      | 3.16  | T-E             | 0 / 516     | 0.03 (1)      |              |
| F-G           | -21037 / 0  | -84.3            | -84.3            | 0.44 (1)      | 3.11  | E-R             | 0 / 5971    | 0.32 (1)      |              |
| G-H           | -21037 / 0  | -84.3            | -84.3            | 0.44 (1)      | 3.11  | R-F             | -553 / 0    | 0.03 (1)      |              |
| H-I           | -18401 / 0  | -84.3            | -84.3            | 0.28 (1)      | 3.41  | R-H             | -4224 / 0   | 0.36 (1)      |              |
| I-J           | -18401 / 0  | -84.3            | -84.3            | 0.27 (1)      | 3.42  | P-H             | 0 / 7993    | 0.43 (1)      |              |
| J-K           | 0 / 0       | -84.3            | -84.3            | 0.08 (1)      | 10.00 | H-O             | -9235 / 0   | 0.65 (1)      |              |
| K-L           | 0 / 29      | -84.3            | -84.3            | 0.04 (1)      | 10.00 | O-I             | -276 / 0    | 0.01 (1)      |              |
| W-B           | -292 / 0    | 0.0              | 0.0              | 0.01 (1)      | 7.81  | O-J             | 0 / 10086   | 0.54 (1)      |              |
| M-K           | -292 / 0    | 0.0              | 0.0              | 0.01 (1)      | 7.81  | N-J             | 0 / 1491    | 0.08 (1)      |              |
|               |             |                  |                  |               |       | W-C             | -11335 / 0  | 0.56 (1)      |              |
|               |             |                  |                  |               |       | J-M             | -17317 / 0  | 0.85 (1)      |              |
| W-X           | 0 / 8981    | -28.0            | -28.0            | 0.15 (1)      | 10.00 |                 |             |               |              |
| X-Y           | 0 / 8981    | -28.0            | -28.0            | 0.15 (1)      | 10.00 |                 |             |               |              |
| Y-V           | 0 / 8981    | -28.0            | -28.0            | 0.15 (1)      | 10.00 |                 |             |               |              |
| V-U           | 0 / 9000    | -28.0            | -28.0            | 0.19 (1)      | 10.00 |                 |             |               |              |
| U-T           | 0 / 15658   | -28.0            | -28.0            | 0.28 (1)      | 10.00 |                 |             |               |              |
| T-S           | 0 / 15658   | -28.0            | -28.0            | 0.28 (1)      | 10.00 |                 |             |               |              |
| S-R           | 0 / 15658   | -28.0            | -28.0            | 0.28 (1)      | 10.00 |                 |             |               |              |
| R-Q           | 0 / 24843   | -28.0            | -28.0            | 0.44 (1)      | 10.00 |                 |             |               |              |
| Q-P           | 0 / 24843   | -28.0            | -28.0            | 0.44 (1)      | 10.00 |                 |             |               |              |
| P-Z           | 0 / 24843   | -28.0            | -28.0            | 0.44 (1)      | 10.00 |                 |             |               |              |
| Z-O           | 0 / 24843   | -28.0            | -28.0            | 0.44 (1)      | 10.00 |                 |             |               |              |
| O-AA          | 0 / 13788   | -28.0            | -28.0            | 0.22 (1)      | 10.00 |                 |             |               |              |
| AA-N          | 0 / 13788   | -28.0            | -28.0            | 0.22 (1)      | 10.00 |                 |             |               |              |
| N-AB          | 0 / 13721   | -28.0            | -28.0            | 0.28 (1)      | 10.00 |                 |             |               |              |
| AB-M          | 0 / 13721   | -28.0            | -28.0            | 0.28 (1)      | 10.00 |                 |             |               |              |

FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1   | MAX.  | FACE | DIR.  | TYPE |
|----|--------|-------|-------|------|-------|------|
| C  | 4-2-8  | -415  | -415  | ---  | BACK  | VERT |
| P  | 22-4-0 | -8041 | -8041 | ---  | FRONT | VERT |
| U  | 5-10-8 | -2647 | -2647 | ---  | BACK  | VERT |

DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 46.1 PSF

SPACING = 24.0 IN. G/C

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

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

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

(5% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.04")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.32")  
ALLOWABLE DEFL.(TL)= L/360 (1.04")  
CALCULATED VERT. DEFL.(TL)= L/750 (0.50")

CSI: TC=0.44 (F-H:1), BC=0.44 (P-R:1), WB=0.85 (J-M:1), SSI=0.24 (O-P:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

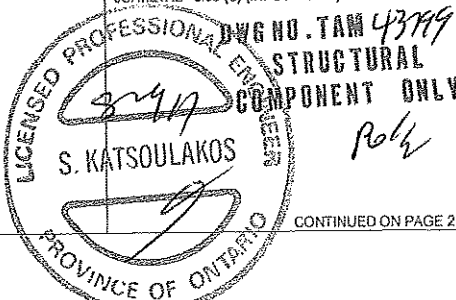
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.89 (W) (INPUT = 0.90)  
JSI METAL= 0.95 (S) (INPUT = 1.00)



CONTINUED ON PAGE 2

|                           |                         |                      |                 |                                |          |
|---------------------------|-------------------------|----------------------|-----------------|--------------------------------|----------|
| JOB NAME<br><b>282146</b> | TRUSS NAME<br><b>T6</b> | QUANTITY<br><b>1</b> | PLY<br><b>3</b> | JOB DESC. 43954<br>TRUSS DESC. | DRWG NO. |
|---------------------------|-------------------------|----------------------|-----------------|--------------------------------|----------|

Tamarack Roof Truss, Burlington

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**PLATES (table is in inches)**

| JT | TYPE     | PLATES | W    | LEN  | Y    | X    |
|----|----------|--------|------|------|------|------|
| P  | BMW+ww   | MT20   | 3.0  | 10.0 | 5.50 | 1.50 |
| Q  | BS-I     | MT20   | 8.0  | 9.0  |      |      |
| R  | BMW+WW-I | MT20   | 5.0  | 12.0 |      |      |
| S  | BS-I     | MT20   | 8.0  | 9.0  |      |      |
| T  | BMW+ww   | MT20   | 3.0  | 10.0 | 5.50 | 1.50 |
| U  | BMW+WW-I | MT20   | 10.0 | 12.0 |      |      |
| V  | BMW+ww   | MT20   | 3.0  | 6.0  |      |      |
| W  | BMW+I-I  | MT20   | 6.0  | 9.0  | 2.75 | 3.25 |

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

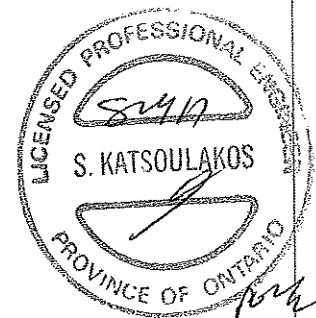
WB - INDICATES BLOCKING REQUIRED

**HANGERS NOTES**

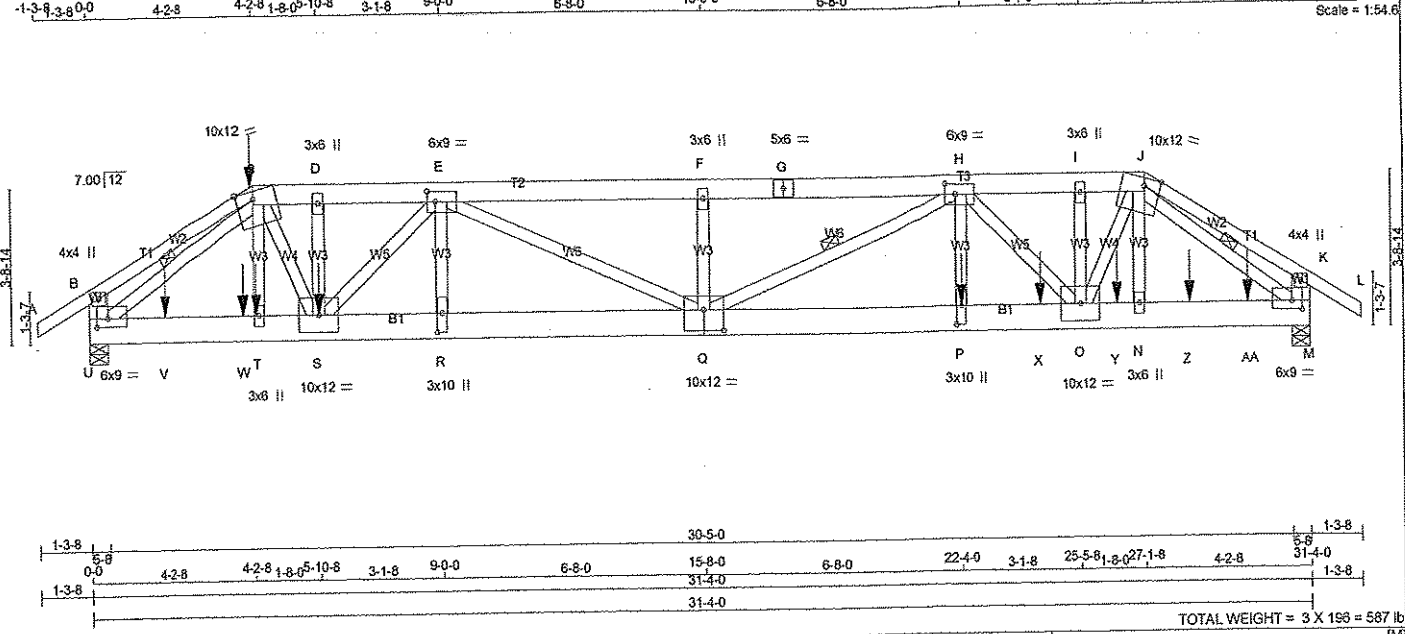
- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 414.8 lbs FACTORED DOWN AT 4-2-8 ON TOP CHORD, AND 66.2 lbs FACTORED DOWN AT 1-11-4, 47.9 lbs FACTORED DOWN AT 3-11-4, 38.9 lbs FACTORED DOWN AT 4-3-4, 2647.1 lbs FACTORED DOWN AT 5-10-8, 8041.1 lbs FACTORED DOWN AT 22-4-0, 1239.5 lbs FACTORED DOWN AT 24-4-12, AND 1239.5 lbs FACTORED DOWN AT 26-4-12, AND 1239.5 lbs FACTORED DOWN AT 28-3-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

**FACTORED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1   | MAX-  | MAX+ | FACE  | DIR. | TYPE  |
|----|---------|-------|-------|------|-------|------|-------|
| V  | 4-3-4   | -22   | -39   | ---  | BACK  | VERT | TOTAL |
| X  | 1-11-4  | -38   | -66   | ---  | BACK  | VERT | TOTAL |
| Y  | 3-11-4  | -27   | -48   | ---  | BACK  | VERT | TOTAL |
| Z  | 24-4-12 | -1240 | -1240 | ---  | FRONT | VERT | TOTAL |
| AA | 26-4-12 | -1240 | -1240 | ---  | FRONT | VERT | TOTAL |
| AB | 28-3-4  | -1240 | -1240 | ---  | FRONT | VERT | TOTAL |



DWG NO. TAM 43799-17  
STRUCTURAL  
COMPONENT ONLY



|                           |                          |                      |                 |                                |          |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------|----------|
| JOB NAME<br><b>282152</b> | TRUSS NAME<br><b>T6Z</b> | QUANTITY<br><b>1</b> | PLY<br><b>3</b> | JOB DESC. 43954<br>TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 Metek Industries, Inc. Tue Aug 29 20:55:59 2017 Page 2  
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**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| T  | BMW+w  | MT20   | 3.0 | 6.0 |      |      |
| U  | BMW1-t | MT20   | 6.0 | 9.0 | 2.50 | 3.25 |

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

**HANGERS NOTES**

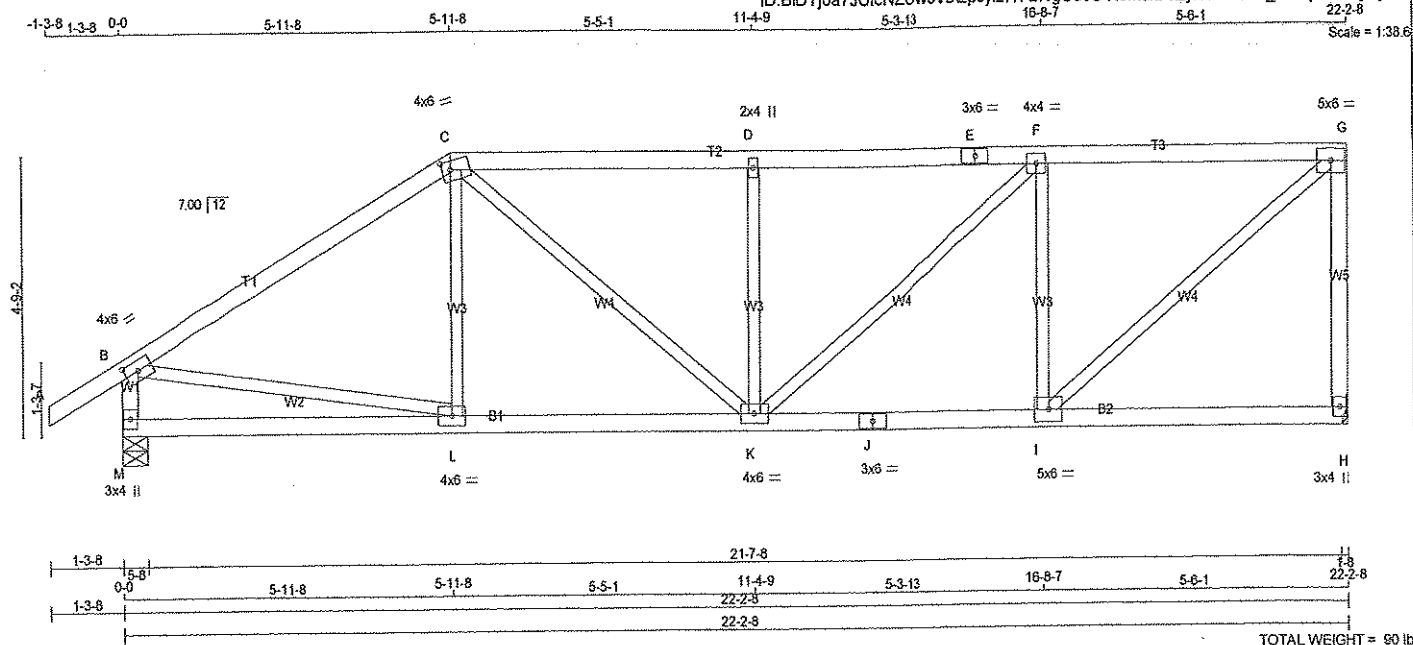
- SPECIAL HANGER(S) OR CONNECTION(S)  
REQUIRED TO SUPPORT CONCENTRATED  
LOAD(S) 414.8 lbs FACTORED DOWN AT 4-2-8  
ON TOP CHORD, AND 66.2 lbs FACTORED  
DOWN AT 1-11-4, 47.9 lbs FACTORED DOWN AT  
3-11-4, 38.9 lbs FACTORED DOWN AT 4-3-4,  
2811.0 lbs FACTORED DOWN AT 5-10-8, 8041.1  
lbs FACTORED DOWN AT 22-4-0, 1355.7 lbs  
FACTORED DOWN AT 24-4-12, 1355.7 lbs  
FACTORED DOWN AT 26-4-12, AND 1355.7 lbs  
FACTORED DOWN AT 28-3-4, AND 1355.7 lbs  
FACTORED DOWN AT 29-9-4 ON BOTTOM  
CHORD. DESIGN FOR UNSPECIFIED  
CONNECTION(S) IS DELEGATED TO THE  
BUILDING DESIGNER.

**FACTORED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1   | MAX-  | MAX+ | FACE  | DIR. | TYPE  |
|----|---------|-------|-------|------|-------|------|-------|
| V  | 1-11-4  | -38   | -86   | --   | BACK  | VERT | TOTAL |
| W  | 3-11-4  | -27   | -48   | --   | BACK  | VERT | TOTAL |
| X  | 24-4-12 | -1356 | -1356 | --   | FRONT | VERT | TOTAL |
| Y  | 26-4-12 | -1356 | -1356 | --   | FRONT | VERT | TOTAL |
| Z  | 28-3-4  | -1356 | -1356 | --   | FRONT | VERT | TOTAL |
| AA | 29-9-4  | -1356 | -1356 | --   | FRONT | VERT | TOTAL |



DWG NO. TAM 43813-17  
STRUCTURAL  
COMPONENT ONLY



**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    |
| E - G  | 2x4  | DRY | No.2   | SPF    |
| H - G  | 2x4  | DRY | No.2   | SPF    |
| M - B  | 2x4  | DRY | No.2   | SPF    |
| M - J  | 2x4  | DRY | No.2   | SPF    |
| J - H  | 2x4  | DRY | No.2   | SPF    |

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

**PLATES** (table in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-t | MT20   | 4.0 | 6.0 | 2.00 | 3.00 |
| C  | TTWW-m | MT20   | 4.0 | 6.0 | 1.75 | 1.75 |
| D  | TMVW-w | MT20   | 2.0 | 4.0 |      |      |
| E  | TS-t   | MT20   | 3.0 | 6.0 |      |      |
| F  | TMVW-t | MT20   | 4.0 | 4.0 |      |      |
| G  | TMVW-t | MT20   | 5.0 | 6.0 |      |      |
| H  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| I  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| J  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| K  | BMVW-w | MT20   | 4.0 | 6.0 |      |      |
| L  | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| M  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

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

**BEARINGS**

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| H  | 1246                    | 0    | 1246                            | 0    | 0         | 0        |
| M  | 1361                    | 0    | 1361                            | 0    | 0         | 0        |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE |         | MAX/MIN. COMPONENT REACTIONS |            | WIND  | DEAD    | SOIL  |
|----|-----------|---------|------------------------------|------------|-------|---------|-------|
|    | COMBINED  | SNOW    | LIVE                         | PERM. LIVE |       |         |       |
| H  | 1023      | 568 / 0 | 233 / 0                      | 0 / 0      | 0 / 0 | 222 / 0 | 0 / 0 |
| M  | 1102      | 638 / 0 | 233 / 0                      | 0 / 0      | 0 / 0 | 230 / 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 = 4.63 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.

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

| MEMB. | CHORDS      |                  | FACTORED |          | WEBS        |       | MAX. FACTORED |          |
|-------|-------------|------------------|----------|----------|-------------|-------|---------------|----------|
|       | FORCE (LBS) | VERT. LOAD (PLF) | MAX      | MIN      | FORCE (LBS) | MEMB. | MAX           | MIN      |
| FR-TO |             |                  |          |          |             |       |               |          |
| A-B   | 0 / 29      | -84.3            | -84.3    | 0.11 (1) | 10.00       | L-C   | -14 / 220     | 0.05 (3) |
| B-C   | -1440 / 0   | -84.3            | -84.3    | 0.63 (1) | 4.63        | B-L   | 0 / 1253      | 0.28 (1) |
| C-D   | -1607 / 0   | -84.3            | -84.3    | 0.38 (1) | 4.79        | I-G   | 0 / 1580      | 0.36 (1) |
| D-E   | -1607 / 0   | -84.3            | -84.3    | 0.40 (1) | 4.76        | C-K   | 0 / 473       | 0.11 (1) |
| E-F   | -1607 / 0   | -84.3            | -84.3    | 0.40 (1) | 4.76        | I-F   | -822 / 0      | 0.27 (1) |
| F-G   | -1227 / 0   | -84.3            | -84.3    | 0.37 (1) | 5.32        | K-D   | -469 / 0      | 0.16 (1) |
| H-G   | -1184 / 0   | 0.0              | 0.0      | 0.44 (1) | 7.34        | K-F   | 0 / 497       | 0.11 (1) |
| M-B   | -1292 / 0   | 0.0              | 0.0      | 0.13 (1) | 7.10        |       |               |          |
| M-L   | 0 / 0       | -28.0            | -28.0    | 0.24 (3) | 10.00       |       |               |          |
| L-K   | 0 / 1242    | -28.0            | -28.0    | 0.39 (2) | 10.00       |       |               |          |
| K-J   | 0 / 1227    | -28.0            | -28.0    | 0.35 (2) | 10.00       |       |               |          |
| J-I   | 0 / 1227    | -28.0            | -28.0    | 0.35 (2) | 10.00       |       |               |          |
| I-H   | 0 / 0       | -28.0            | -28.0    | 0.21 (3) | 10.00       |       |               |          |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 25.6 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 46.1 PSF

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

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

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

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.74")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")  
ALLOWABLE DEFL.(TL) = L/360 (0.74")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.63 (B-C:1), BC=0.39 (K-L:2), WB=0.38 (G-I:1), SSI=0.22 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

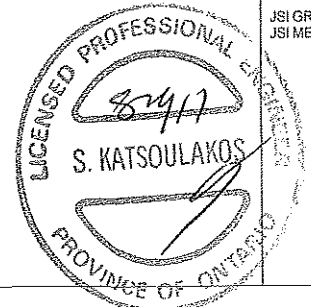
**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

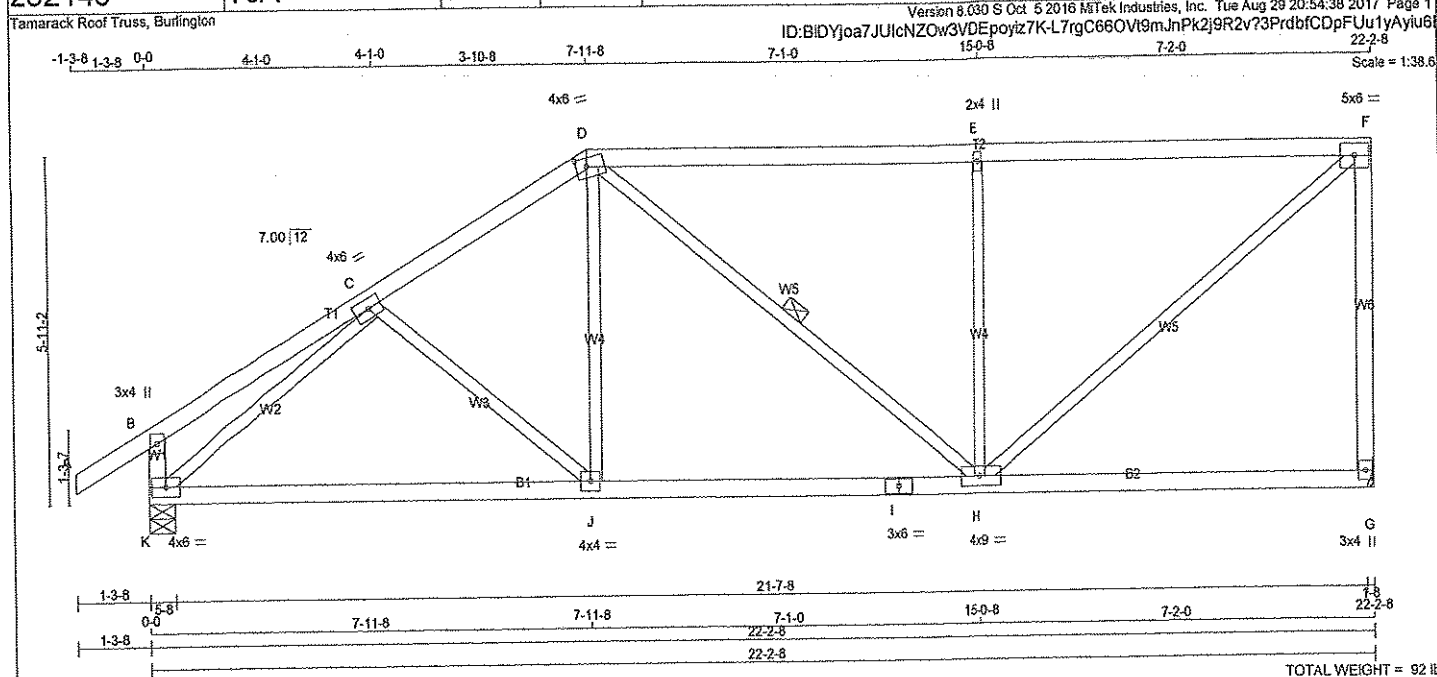
PLATE ROTATION TOL. = 5.0 Deg

JSI GRIP= 0.87 (C) (INPUT = 0.90)  
JSI METAL= 0.41 (B) (INPUT = 1.00)



DWG NO. TAM 43000-17  
STRUCTURAL  
COMPONENT ONLY

|                                 |                          |                                                                                  |                 |                           |          |
|---------------------------------|--------------------------|----------------------------------------------------------------------------------|-----------------|---------------------------|----------|
| JOB NAME<br><b>282146</b>       | TRUSS NAME<br><b>T8A</b> | QUANTITY<br><b>1</b>                                                             | PLY<br><b>1</b> | JOB DESC.<br><b>43654</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          | Version 8.030 S Oct 5 2016 MTEK Industries, Inc. Tue Aug 29 20:54:38 2017 Page 1 |                 |                           |          |
|                                 |                          | ID:BiDYjoa7JUlCnZOW3VDEpoyz7K-L7rgC66OVt9mJnPk2j9R2v73PrdbfCDpFUu1yAyiU6         |                 |                           |          |



| LUMBER            |      |        |      | DESCR. |
|-------------------|------|--------|------|--------|
| N. L. G. A. RULES |      |        |      |        |
| CHORDS            | SIZE | LUMBER |      |        |
| A - D             | 2x4  | DRY    | No.2 | SPF    |
| D - F             | 2x4  | DRY    | No.2 | SPF    |
| G - F             | 2x4  | DRY    | No.2 | SPF    |
| K - B             | 2x4  | DRY    | No.2 | SPF    |
| K - 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  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMVW-t  | MT20   | 4.0 | 6.0 |      |      |
| D  | TTWW-m  | MT20   | 4.0 | 6.0 | 1.75 | 2.25 |
| E  | TMV+w   | MT20   | 2.0 | 4.0 |      |      |
| F  | TMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| G  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVWW-t | MT20   | 4.0 | 9.0 |      |      |
| I  | BS-t    | MT20   | 3.0 | 6.0 |      |      |
| J  | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| K  | BMVW1-t | MT20   | 4.0 | 6.0 |      |      |

#### 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 | 1246                    | 0    | 1246                            | 0    | 0         | 0        |
| G  |                         |      |                                 |      |           |          |
| K  | 1361                    | 0    | 1361                            | 0    | 0         | 0        |

##### UNFACTORED REACTIONS

|    | 1ST LCASE |         | MAX/MIN. COMPONENT REACTIONS |            | WIND  | DEAD    | SOIL  |
|----|-----------|---------|------------------------------|------------|-------|---------|-------|
|    | COMBINED  | SNOW    | LIVE                         | PERM. LIVE |       |         |       |
| JT | 1023      | 588 / 0 | 233 / 0                      | 0 / 0      | 0 / 0 | 222 / 0 | 0 / 0 |
| G  |           |         |                              |            |       |         |       |
| K  | 1102      | 638 / 0 | 233 / 0                      | 0 / 0      | 0 / 0 | 230 / 0 | 0 / 0 |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.42 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-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)

| MEMB. | CHORDS        |          | VERT. LOAD (PLF) | FACTORED       |               | MAX. UNBRAC LENGTH | MEMB. FORCE (LBS) | WEBS          |               | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
|-------|---------------|----------|------------------|----------------|---------------|--------------------|-------------------|---------------|---------------|---------------------------|---------------|
|       | MAX. FACTORED | FACTORED |                  | VERT. LOAD LC1 | MAX. FACTORED |                    |                   | MAX. FACTORED | MAX. FACTORED |                           |               |
| FR-TO |               |          |                  |                |               |                    |                   |               |               |                           |               |
| A-B   | 0 / 29        | -84.3    | -84.3            | 0.11 (1)       | 10.00         | C-J                | -102 / 92         | 0.05 (1)      |               |                           |               |
| B-C   | 0 / 18        | -84.3    | -84.3            | 0.20 (1)       | 10.00         | J-D                | 0 / 387           | 0.09 (2)      |               |                           |               |
| C-D   | -1359 / 0     | -84.3    | -84.3            | 0.23 (1)       | 5.30          | K-C                | -1604 / 0         | 0.69 (1)      |               |                           |               |
| D-E   | -1187 / 0     | -84.3    | -84.3            | 0.83 (1)       | 4.42          | H-F                | 0 / 1511          | 0.34 (1)      |               |                           |               |
| E-F   | -1188 / 0     | -84.3    | -84.3            | 0.83 (1)       | 4.42          | D-H                | -47 / 32          | 0.03 (3)      |               |                           |               |
| G-F   | -1163 / 0     | 0.0      | 0.0              | 0.77 (1)       | 7.39          | H-E                | -745 / 0          | 0.41 (1)      |               |                           |               |
| K-B   | -245 / 0      | 0.0      | 0.0              | 0.03 (1)       | 7.81          |                    |                   |               |               |                           |               |
| K-J   | 0 / 1236      | -28.0    | -28.0            | 0.53 (2)       | 10.00         |                    |                   |               |               |                           |               |
| J-I   | 0 / 1162      | -28.0    | -28.0            | 0.54 (2)       | 10.00         |                    |                   |               |               |                           |               |
| I-H   | 0 / 1162      | -28.0    | -28.0            | 0.54 (2)       | 10.00         |                    |                   |               |               |                           |               |
| H-G   | 0 / 0         | -28.0    | -28.0            | 0.31 (3)       | 10.00         |                    |                   |               |               |                           |               |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |               |
|------------|---------------|
| TOP CH.    | LL = 25.6 PSF |
|            | DL = 3.0 PSF  |
| BOT CH.    | LL = 10.5 PSF |
|            | DL = 7.0 PSF  |
| TOTAL LOAD | = 46.1 PSF    |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.74")  
CALCULATED VERT. DEFL.(LL) = L/899 (0.17")  
ALLOWABLE DEFL.(TL)= L/360 (0.74")  
CALCULATED VERT. DEFL.(TL) = L/931 (0.29")

CSI: TC=0.83 (E-F:1), BC=0.54 (H-J:2), WB=0.89 (C-K:1), SSI=0.29 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

##### NAIL VALUES

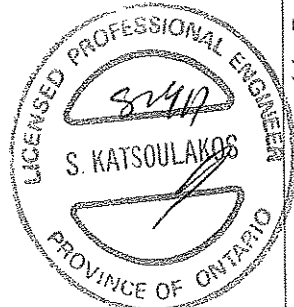
| PLATE   | GRIP(DRY) | SHEAR    | SECTION   |
|---------|-----------|----------|-----------|
| (PS)    | (PL)      | (PL)     | (PL)      |
| MAX MIN | MAX MIN   | MAX MIN  | MAX MIN   |
| MT20    | 618 354   | 1667 822 | 2284 1656 |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.89 (H) (INPUT = 0.90)  
JSI METAL= 0.39 (C) (INPUT = 1.00)

DWG NO. TAM 43601-17  
STRUCTURAL  
COMPONENT ONLY



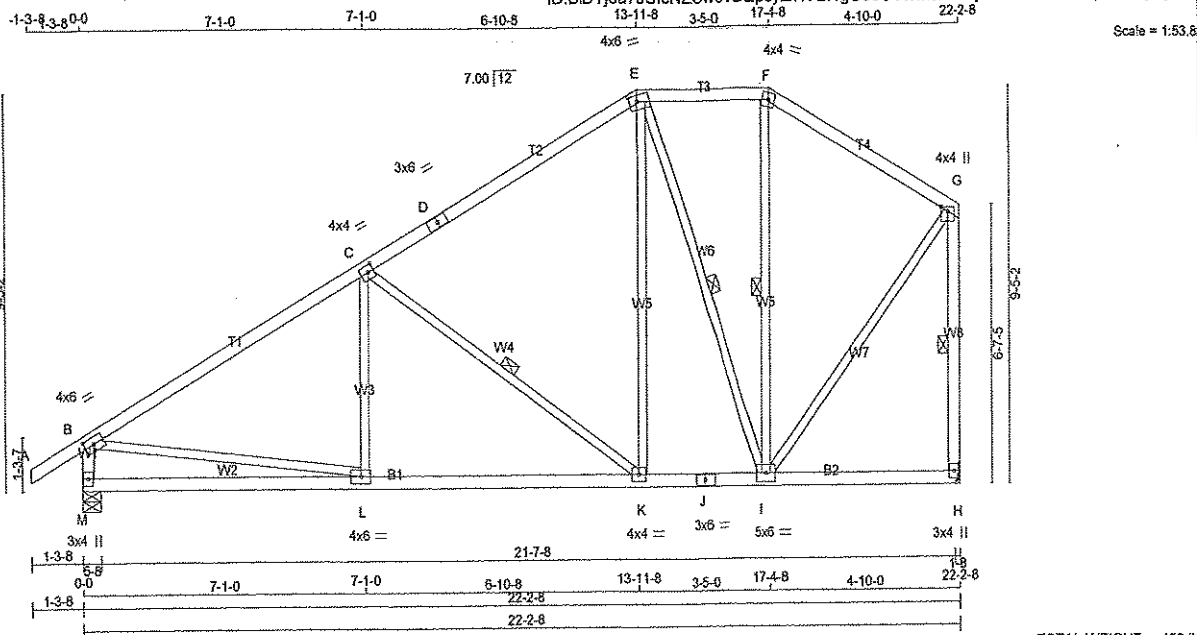
DRWG NO. TAM 43601-17  
 STRUCTURAL  
 COMPONENT ONLY

|                           |                          |                      |                 |                           |          |
|---------------------------|--------------------------|----------------------|-----------------|---------------------------|----------|
| JOB NAME<br><b>282146</b> | TRUSS NAME<br><b>T9A</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>43954</b> | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|---------------------------|----------|

Tamareck Roof Truss, Burlington

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ID: BIDYjoa7JULcNZow3VDEpoylz7K-L7rgC660V19mJnPk2j9R2v77ord7fH9pFUu1yAyu6f



TOTAL WEIGHT = 109 lb

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

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

| PLATES (table is in inches) |         |        |     | W   | LEN  | Y    | X |
|-----------------------------|---------|--------|-----|-----|------|------|---|
| JT                          | TYPE    | PLATES |     |     |      |      |   |
| B                           | TMVW-I  | MT20   | 4.0 | 6.0 | 2.00 | 3.00 |   |
| C                           | TMVW-I  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |   |
| D                           | TS-I    | MT20   | 3.0 | 6.0 |      |      |   |
| E                           | TTWW-m  | MT20   | 4.0 | 6.0 | 1.75 | 2.25 |   |
| F                           | TTW-m   | MT20   | 4.0 | 4.0 |      |      |   |
| G                           | TMVW+p  | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |   |
| H                           | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |   |
| I                           | BMVWW-I | MT20   | 5.0 | 6.0 |      |      |   |
| J                           | BS-I    | MT20   | 3.0 | 6.0 |      |      |   |
| K                           | BMVW-I  | MT20   | 4.0 | 4.0 |      |      |   |
| L                           | BMVW-I  | MT20   | 4.0 | 6.0 |      |      |   |
| M                           | 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  | REQRD |
|----------|----------------|------------------|--------|-------|
|          | GROSS REACTION | GROSS REACTION   | BRG    | BRG   |
| JT       | VERT           | DOWN             | UPLIFT | IN-SX |
| M        | 1361           | 0                | 1361   | 0     |
| H        | 1246           | 0                | 1246   | 0     |

| UNFACTORED REACTIONS | 1ST LCASE | MAX/MIN | COMPONENT REACTIONS |
|----------------------|-----------|---------|---------------------|
|                      | COMBINED  | SNOW    | LIVE                |
| M                    | 1102      | 638 / 0 | 233 / 0             |
| H                    | 1023      | 568 / 0 | 233 / 0             |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.61 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-K, E-I, F-I, G-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 |
|--------|---------------|----------|------------|----------|--------|-------|-----------|----------|----------|
| MEMB.  | FORCE         | (PLF)    | CS1 (LC)   | UNBRAC   | LENGTH | FR-TO | FR-TO     | FORCE    | MAX      |
| A-B    | 0 / 29        | -84.3    | -84.3      | 0.11 (1) | 10.00  | L-C   | 0 / 315   | 0.07 (3) |          |
| B-C    | -1475 / 0     | -84.3    | -84.3      | 0.62 (1) | 4.61   | C-K   | -738 / 0  | 0.38 (1) |          |
| C-D    | -858 / 0      | -84.3    | -84.3      | 0.55 (1) | 5.75   | K-E   | 0 / 567   | 0.13 (1) |          |
| D-E    | -858 / 0      | -84.3    | -84.3      | 0.55 (1) | 5.75   | E-I   | -546 / 0  | 0.38 (1) |          |
| E-F    | -529 / 0      | -84.3    | -84.3      | 0.13 (1) | 6.25   | I-F   | -37 / 129 | 0.03 (3) |          |
| F-G    | -614 / 0      | -84.3    | -84.3      | 0.26 (1) | 6.25   | B-L   | 0 / 1317  | 0.30 (1) |          |
| M-B    | -1283 / 0     | 0.0      | 0.0        | 0.13 (1) | 7.12   | I-G   | 0 / 858   | 0.19 (1) |          |
| H-G    | -1189 / 0     | 0.0      | 0.0        | 0.25 (1) | 5.88   |       |           |          |          |
| M-L    | 0 / 0         | -28.0    | -28.0      | 0.36 (3) | 10.00  |       |           |          |          |
| L-K    | 0 / 1305      | -28.0    | -28.0      | 0.51 (2) | 10.00  |       |           |          |          |
| K-J    | 0 / 715       | -28.0    | -28.0      | 0.23 (2) | 10.00  |       |           |          |          |
| J-I    | 0 / 715       | -28.0    | -28.0      | 0.23 (2) | 10.00  |       |           |          |          |
| I-H    | 0 / 0         | -28.0    | -28.0      | 0.14 (3) | 10.00  |       |           |          |          |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 25.6 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 46.1 PSF  
**SPACING = 24.0 IN. C/C**

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12  
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.74")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")  
ALLOWABLE DEFL.(TL) = L/360 (0.74")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.62 (B-C:1), BC=0.51 (K-L:2), WB=0.38 (C-K:1), SSI=0.25 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

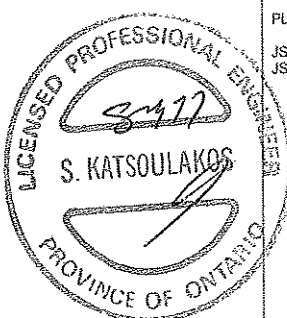
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1687 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.81 (L) (INPUT = 0.90)  
JSI METAL= 0.42 (B) (INPUT = 1.00)



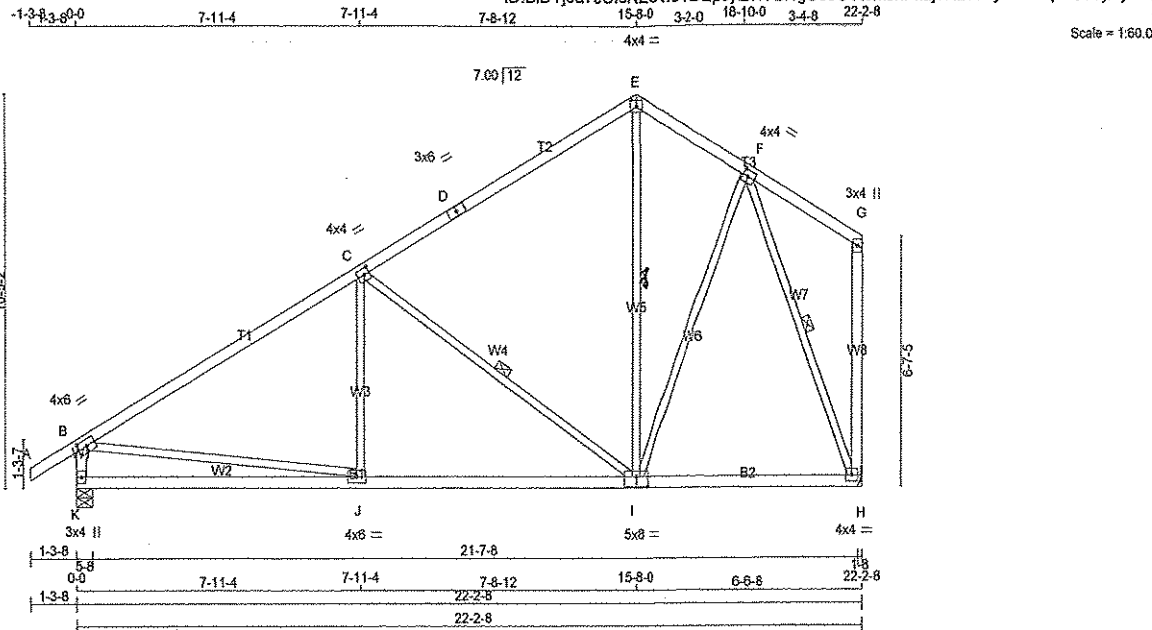
DWG NO. TAM 43802-17  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 43954 | DRWG NO. |
| 282146   | T10A       | 6        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 6 X 105 = 627 lb

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

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

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

| BEARINGS |          | FACTORED       |                | MAXIMUM FACTORED |       | INPUT  |       | REQD  |     |
|----------|----------|----------------|----------------|------------------|-------|--------|-------|-------|-----|
| JT       | COMBINED | GROSS REACTION | GROSS REACTION | DOWN             | HORIZ | UPLIFT | IN-SX | IN-SX | BRG |
| K        | 1361     | 0              | 1361           | 0                | 0     | 5-8    | 5-8   |       |     |
| H        | 1246     | 0              | 1246           | 0                | 0     |        |       |       |     |

#### UNFACTORED REACTIONS

| JT | 1ST CASE | SNOW    | LIVE    | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|---------|---------|------------|-------|---------|-------|
| K  | 1102     | 638 / 0 | 233 / 0 | 0 / 0      | 0 / 0 | 230 / 0 | 0 / 0 |
| H  | 1023     | 588 / 0 | 233 / 0 | 0 / 0      | 0 / 0 | 222 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.26 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS  |                           |                           |          |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |          |
| FR-TO  |                           | FROM TO                   |                           | FR-TO |                           |                           |          |
| A-B    | 0 / 29                    | -84.3 -84.3               | 0.11 (1)                  | 10.00 | J-C                       | 0 / 358                   | 0.08 (3) |
| B-C    | -1440 / 0                 | -84.3 -84.3               | 0.80 (1)                  | 4.26  | C-I                       | -860 / 0                  | 0.58 (1) |
| C-D    | -715 / 0                  | -84.3 -84.3               | 0.71 (1)                  | 5.73  | I-E                       | 0 / 373                   | 0.08 (2) |
| D-E    | -715 / 0                  | -84.3 -84.3               | 0.71 (1)                  | 5.73  | I-F                       | 0 / 418                   | 0.09 (1) |
| E-F    | -889 / 0                  | -84.3 -84.3               | 0.11 (1)                  | 6.25  | B-J                       | 0 / 1288                  | 0.29 (1) |
| F-G    | 0 / 15                    | -84.3 -84.3               | 0.14 (1)                  | 10.00 | F-H                       | -1148 / 0                 | 0.61 (1) |
| K-B    | -1272 / 0                 | 0.0 0.0                   | 0.13 (1)                  | 7.14  |                           |                           |          |
| H-G    | -110 / 0                  | 0.0 0.0                   | 0.11 (1)                  | 7.81  |                           |                           |          |
| K-J    | 0 / 0                     | -28.0 -28.0               | 0.42 (3)                  | 10.00 |                           |                           |          |
| J-I    | 0 / 1278                  | -28.0 -28.0               | 0.57 (2)                  | 10.00 |                           |                           |          |
| I-H    | 0 / 430                   | -28.0 -28.0               | 0.36 (2)                  | 10.00 |                           |                           |          |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 46.1 PSF

SPACING = 24.0 IN. C/C

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

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.74")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.15")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.74")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.26")

CSI: TC=0.80 (B-C:1), BC=0.57 (I-J:2), WB=0.61 (F-H:1), SSI=0.28 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

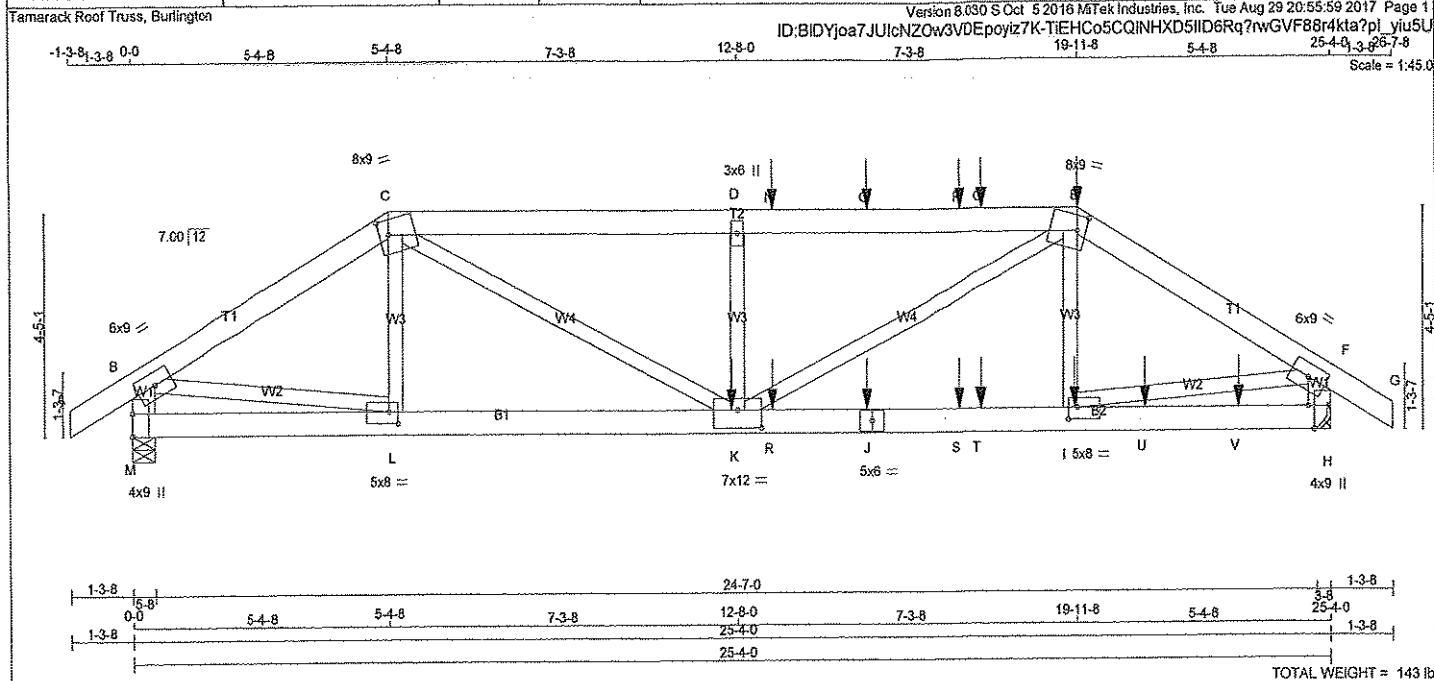
JSI GRIP= 0.90 (F) (INPUT = 0.90)  
JSI METAL= 0.42 (B) (INPUT = 1.00)



DWG NO. TAM 4300317  
STRUCTURAL  
COMPONENT ONLY



|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 43954 | DRWG NO. |
| 282152   | T11Z       | 1        | 1   | TRUSS DESC. |       |          |



| LUMBER | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|--------|-------------------|--------|------|--------|--------|
| A - C  | 2x6               | DRY    | No.2 | SPF    |        |
| C - E  | 2x6               | DRY    | No.2 | SPF    |        |
| E - G  | 2x6               | DRY    | No.2 | SPF    |        |
| M - B  | 2x6               | DRY    | No.2 | SPF    |        |
| H - F  | 2x6               | DRY    | No.2 | SPF    |        |
| M - J  | 2x6               | DRY    | No.2 | SPF    |        |
| J - H  | 2x6               | DRY    | No.2 | SPF    |        |

ALL WEBS 2x4 DRY No.2 SPF

EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN  | Y    | X    |
|----|---------|--------|-----|------|------|------|
| B  | TMVW-t  | MT20   | 6.0 | 9.0  |      |      |
| C  | TTWW-m  | MT20   | 8.0 | 9.0  | 3.50 | 2.25 |
| D  | TMVW-r  | MT20   | 3.0 | 6.0  |      |      |
| E  | TTWW-m  | MT20   | 8.0 | 9.0  | 3.50 | 2.25 |
| F  | TMVW-t  | MT20   | 6.0 | 9.0  |      |      |
| H  | BMV1-t  | MT20   | 4.0 | 9.0  | Edge | 1.50 |
| I  | BMVW-t  | MT20   | 5.0 | 8.0  | 2.75 | 2.25 |
| J  | BS-t    | MT20   | 5.0 | 6.0  |      |      |
| K  | BMVWW-t | MT20   | 7.0 | 12.0 | 4.25 | 6.00 |
| L  | BMVW-t  | MT20   | 5.0 | 8.0  | 2.75 | 2.25 |
| M  | BMV1-t  | MT20   | 4.0 | 9.0  | 5.50 |      |

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

#### HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 85.6 lbs FACTORED DOWN AT 13-4-12, 85.6 lbs FACTORED DOWN AT 15-4-12, 85.6 lbs FACTORED DOWN AT 17-4-12, AND 85.6 lbs FACTORED DOWN AT 19-10-12, AND 425.0 lbs FACTORED DOWN AT 23-4-12 ON TOP CHORD, AND 1543.8 lbs FACTORED DOWN AT 12-8-8, 61.3 lbs FACTORED DOWN AT 13-4-12, 61.3 lbs FACTORED DOWN AT 15-4-12, 61.3 lbs FACTORED DOWN AT 17-4-12, 61.3 lbs FACTORED DOWN AT 19-10-12, AND 74.7 lbs FACTORED DOWN AT 21-4-12, AND 74.7 lbs FACTORED DOWN AT 23-4-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

##### BEARINGS

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQRD |
|----|----------------|------------------|-------|-------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG   |
| JT | VERT           | HORZ             | DOWN  | HORZ  |
| M  | 2597           | 0                | 2597  | 0     |
| H  | 3056           | 0                | 3056  | 0     |

##### UNFACTORED REACTIONS

|    | 1ST LCASE | MAX./MIN. | COMPONENT REACTIONS |           |       |         |       |
|----|-----------|-----------|---------------------|-----------|-------|---------|-------|
| JT | COMBINED  | SNOW      | LIVE                | PERM LIVE | WIND  | DEAD    | SOIL  |
| M  | 2084      | 1238 / 0  | 422 / 0             | 0 / 0     | 0 / 0 | 427 / 0 | 0 / 0 |
| H  | 2465      | 1438 / 0  | 514 / 0             | 0 / 0     | 0 / 0 | 513 / 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 = 2.80 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)

| FR-TO | CHORDS    |                           | WEBS  |                           |
|-------|-----------|---------------------------|-------|---------------------------|
|       | MEMB.     | MAX. FACTORED FORCE (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) |
| A-B   | 0 / 30    | -84.3                     | L-C   | -217 / 132                |
| B-C   | -3488 / 0 | -84.3                     | C-K   | 0 / 3180                  |
| C-D   | -5797 / 0 | -84.3                     | K-D   | -929 / 0                  |
| D-N   | -5797 / 0 | -84.3                     | K-E   | 0 / 2500                  |
| N-O   | -5797 / 0 | -84.3                     | I-E   | -128 / 407                |
| O-P   | -5797 / 0 | -84.3                     | B-L   | 0 / 3039                  |
| P-Q   | -5797 / 0 | -84.3                     | I-F   | 0 / 3640                  |
| Q-E   | -5797 / 0 | -84.3                     |       |                           |
| E-F   | -4177 / 0 | -84.3                     |       |                           |
| F-G   | 0 / 30    | -84.3                     |       |                           |
| M-B   | -2542 / 0 | 0.0                       |       |                           |
| H-F   | -2976 / 0 | 0.0                       |       |                           |
| M-L   | 0 / 0     | -28.0                     |       |                           |
| L-K   | 0 / 3000  | -28.0                     |       |                           |
| K-R   | 0 / 3598  | -28.0                     |       |                           |
| R-J   | 0 / 3598  | -28.0                     |       |                           |
| J-S   | 0 / 3598  | -28.0                     |       |                           |
| S-T   | 0 / 3598  | -28.0                     |       |                           |
| T-I   | 0 / 3598  | -28.0                     |       |                           |
| I-U   | 0 / 0     | -28.0                     |       |                           |
| U-V   | 0 / 0     | -28.0                     |       |                           |
| V-H   | 0 / 0     | -28.0                     |       |                           |

##### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.     | LC1   | MAX-  | MAX+ | FACE  | DIR. | TYPE  |
|----|----------|-------|-------|------|-------|------|-------|
| E  | 19-11-8  | -425  | -425  | -    | FRONT | VERT | TOTAL |
| I  | 19-10-12 | -35   | -81   | -    | FRONT | VERT | TOTAL |
| J  | 15-4-12  | -35   | -81   | -    | FRONT | VERT | TOTAL |
| K  | 12-8-8   | -1544 | -1544 | -    | FRONT | VERT | TOTAL |
| N  | 13-4-12  | -88   | -88   | -    | FRONT | VERT | TOTAL |
| O  | 15-4-12  | -88   | -88   | -    | FRONT | VERT | TOTAL |
| P  | 17-4-12  | -88   | -88   | -    | FRONT | VERT | TOTAL |
| Q  | 17-10-12 | -88   | -88   | -    | FRONT | VERT | TOTAL |
| R  | 13-4-12  | -35   | -81   | -    | FRONT | VERT | TOTAL |
| S  | 17-4-12  | -35   | -81   | -    | FRONT | VERT | TOTAL |
| T  | 17-10-12 | -35   | -81   | -    | FRONT | VERT | TOTAL |
| U  | 21-4-12  | -43   | -75   | -    | FRONT | VERT | TOTAL |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |      |      |     |
|------------|----|------|------|-----|
| TOP CH.    | LL | =    | 25.6 | PSF |
|            | DL | =    | 3.0  | PSF |
| BOT CH.    | LL | =    | 10.5 | PSF |
|            | DL | =    | 7.0  | PSF |
| TOTAL LOAD | =  | 46.1 | PSF  |     |

SPACING = 24.0 IN./C/C

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

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

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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.84")  
CALCULATED VERT. DEFL.(LL)= 1/989 (0.19")  
ALLOWABLE DEFL.(TL)= L/360 (0.84")  
CALCULATED VERT. DEFL.(TL)= 1/983 (0.31")

CSI: TC=0.81 (D-E-1), BC=0.63 (I-K-1), WB=0.64 (F-I-1), SSI=0.38 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

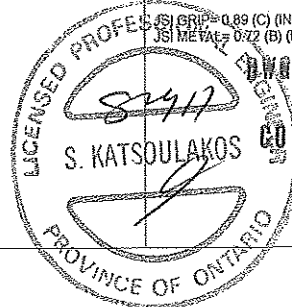
##### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

SI GRIP = 0.89 (C) (INPUT = 0.80)  
SI MIN = 0.72 (B) (INPUT = 1.00)



NO. 43814 17  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 43954 | DRWG NO. |
| 282152   | T11Z       | 1        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

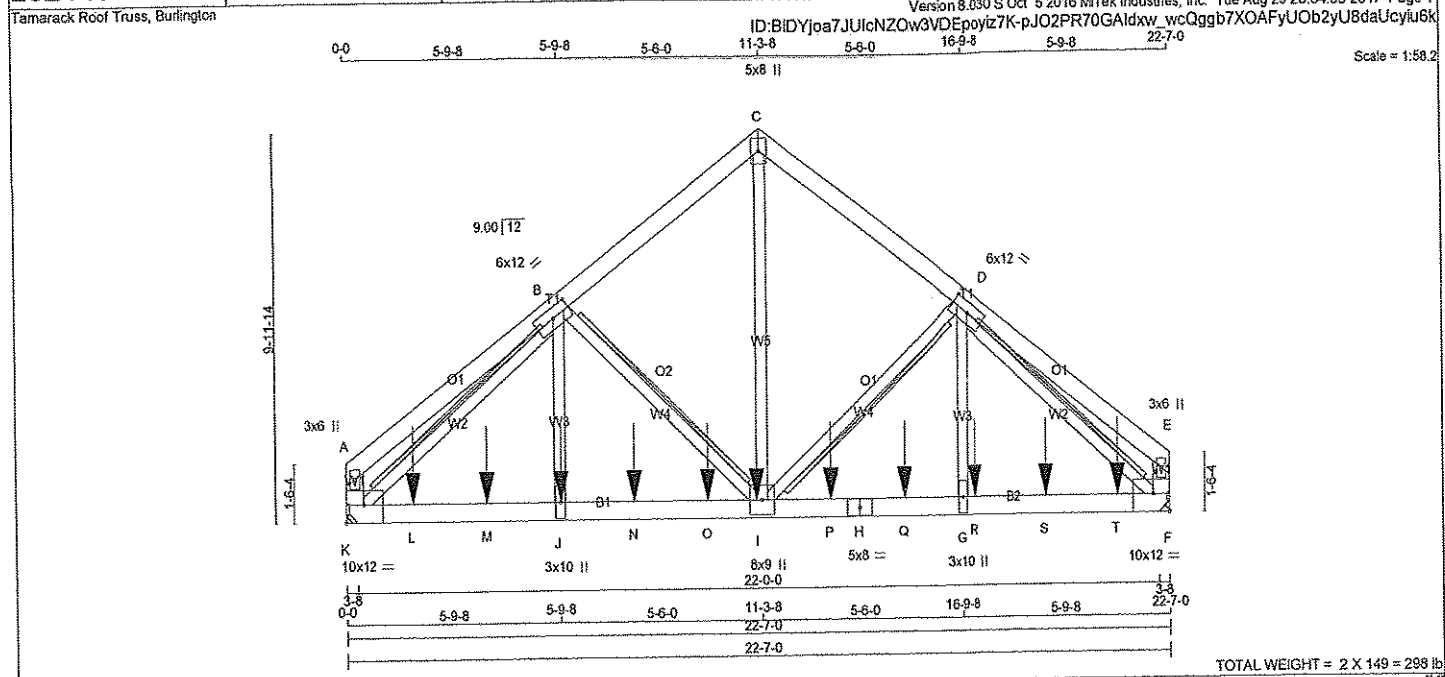
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| FACTORED CONCENTRATED LOADS (LBS) |         |     |      |      |       |      |       |
|-----------------------------------|---------|-----|------|------|-------|------|-------|
| JT                                | LOC.    | LC1 | MAX- | MAX+ | FACE  | DIR. | TYPE  |
| V                                 | 23-4-12 | -43 | -75  | —    | FRONT | VERT | TOTAL |



DWG NO. TAM 43814-17  
 STRUCTURAL  
 COMPONENT ONLY



TOTAL WEIGHT = 2 X 149 = 298 lb

| LUMBER            |      |        |            |
|-------------------|------|--------|------------|
| N. L. G. A. RULES |      |        |            |
| CHORDS            | SIZE | LUMBER | DESCR.     |
| A - C             | 2x6  | DRY    | No.2       |
| C - E             | 2x6  | DRY    | No.2       |
| K - A             | 2x6  | DRY    | No.2       |
| F - E             | 2x6  | DRY    | No.2       |
| K - H             | 2x6  | DRY    | 2100F 1.8E |
| H - F             | 2x6  | DRY    | 2100F 1.8E |
| ALL WEBS          | 2x4  | DRY    | No.2       |
| EXCEPT            |      |        | 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                                    | 2                    | 12 TOP          |
| C - E                                    | 2                    | 12 TOP          |
| K - A                                    | 2                    | 12 TOP          |
| F - E                                    | 2                    | 12 TOP          |
| BOTTOM CHORDS : (0.122'X3") SPIRAL NAILS |                      |                 |
| K - H                                    | 2                    | 12 SIDE (197.8) |
| H - F                                    | 2                    | 12 SIDE (197.8) |
| WEBS : (0.122'X3") SPIRAL NAILS          |                      |                 |
| I - C                                    | 1                    | 6 SIDE (120.1)  |
| B - J                                    | 1                    | 6 SIDE (120.1)  |
| D - G                                    | 1                    | 6 SIDE (120.1)  |
| 2x4                                      | 1                    | 6               |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.  
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.  
TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.  
SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF 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                           | TMV+p   | MT20   | 3.0  | 6.0  |           |
| B                           | TMVWW+1 | MT20   | 6.0  | 12.0 | 3.00 6.00 |
| C                           | TMV+p   | MT20   | 5.0  | 8.0  |           |
| D                           | TMVWW+1 | MT20   | 6.0  | 12.0 | 3.00 6.00 |
| E                           | TMV+p   | MT20   | 3.0  | 6.0  |           |
| F                           | BMVWV+1 | MT20   | 10.0 | 12.0 | 5.50 Edge |
| G                           | BMVW+w  | MT20   | 3.0  | 10.0 |           |
| H                           | BS+1    | MT20   | 5.0  | 8.0  |           |
| I                           | BMVWW+1 | MT20   | 8.0  | 9.0  |           |
| J                           | BMVW+w  | MT20   | 3.0  | 10.0 |           |
| K                           | BMVWV+1 | MT20   | 10.0 | 12.0 | 5.50 Edge |

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

HANGERS NOTES  
1)

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

| BEARINGS |      | FACTORED GROSS REACTION |  | MAXIMUM FACTORED DOWN |   | INPUT BRG UPLIFT |  | REQRD BRG IN-SX |  |
|----------|------|-------------------------|--|-----------------------|---|------------------|--|-----------------|--|
| JT       | VERT | HORZ                    |  | HORZ                  |   |                  |  |                 |  |
| K        | 7869 | 0                       |  | 7869                  | 0 | 0                |  |                 |  |
| F        | 8069 | 0                       |  | 8069                  | 0 | 0                |  |                 |  |

| UNFACTORED REACTIONS |          |          |          |           |       |          |       |
|----------------------|----------|----------|----------|-----------|-------|----------|-------|
| JT                   | COMBINED | SNOW     | LIVE     | PERM.LIVE | WIND  | DEAD     | SOIL  |
| K                    | 6396     | 3656 / 0 | 1387 / 0 | 0 / 0     | 0 / 0 | 1353 / 0 | 0 / 0 |
| F                    | 6558     | 3749 / 0 | 1422 / 0 | 0 / 0     | 0 / 0 | 1387 / 0 | 0 / 0 |

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.52 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT D-I, B-I  
2x6 DRY SPF No.2 T-BRACE AT B-K, D-F

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

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

LOADING  
TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                                    | WEBS  |                           |                                    |          |
|--------|---------------------------|---------------------------|------------------------------------|-------|---------------------------|------------------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED UNBRACED LENGTH (FT) | CS (LC)  |
| FR-TO  |                           | FROM TO                   |                                    | FR-TO |                           |                                    |          |
| A-B    | -11 / 6                   | -84.3 -84.3               | 0.12 (1)                           | 6.25  | I-C                       | 0 / 7416                           | 0.86 (1) |
| B-C    | -6551 / 0                 | -84.3 -84.3               | 0.19 (1)                           | 4.52  | I-D                       | -2647 / 0                          | 0.61 (1) |
| C-D    | -6551 / 0                 | -84.3 -84.3               | 0.19 (1)                           | 4.52  | G-D                       | 0 / 3973                           | 0.35 (1) |
| D-E    | -11 / 6                   | -84.3 -84.3               | 0.12 (1)                           | 6.25  | B-I                       | -2650 / 0                          | 0.61 (1) |
| K-A    | -231 / 0                  | 0.0 0.0                   | 0.01 (1)                           | 7.81  | J-B                       | 0 / 3977                           | 0.35 (1) |
| F-E    | -231 / 0                  | 0.0 0.0                   | 0.01 (1)                           | 7.81  | K-B                       | -5687 / 0                          | 0.91 (1) |
|        |                           |                           |                                    |       | D-F                       | -5684 / 0                          | 0.91 (1) |
| K-L    | 0 / 7108                  | -28.0 -28.0               | 0.58 (1)                           | 10.00 |                           |                                    |          |
| L-M    | 0 / 7108                  | -28.0 -28.0               | 0.58 (1)                           | 10.00 |                           |                                    |          |
| M-J    | 0 / 7108                  | -28.0 -28.0               | 0.58 (1)                           | 10.00 |                           |                                    |          |
| J-N    | 0 / 7167                  | -28.0 -28.0               | 0.51 (1)                           | 10.00 |                           |                                    |          |
| N-O    | 0 / 7167                  | -28.0 -28.0               | 0.51 (1)                           | 10.00 |                           |                                    |          |
| O-I    | 0 / 7167                  | -28.0 -28.0               | 0.51 (1)                           | 10.00 |                           |                                    |          |
| I-P    | 0 / 7165                  | -28.0 -28.0               | 0.55 (1)                           | 10.00 |                           |                                    |          |
| P-H    | 0 / 7165                  | -28.0 -28.0               | 0.55 (1)                           | 10.00 |                           |                                    |          |
| H-Q    | 0 / 7165                  | -28.0 -28.0               | 0.55 (1)                           | 10.00 |                           |                                    |          |
| Q-G    | 0 / 7165                  | -28.0 -28.0               | 0.55 (1)                           | 10.00 |                           |                                    |          |
| G-R    | 0 / 7106                  | -28.0 -28.0               | 0.54 (1)                           | 10.00 |                           |                                    |          |
| R-S    | 0 / 7106                  | -28.0 -28.0               | 0.54 (1)                           | 10.00 |                           |                                    |          |
| S-T    | 0 / 7106                  | -28.0 -28.0               | 0.54 (1)                           | 10.00 |                           |                                    |          |
| T-F    | 0 / 7106                  | -28.0 -28.0               | 0.54 (1)                           | 10.00 |                           |                                    |          |

| FACTORED CONCENTRATED LOADS (LBS) |         |       |       |      |           |
|-----------------------------------|---------|-------|-------|------|-----------|
| JT                                | LOC.    | LC1   | MAX.  | FACE | DIR.      |
| I                                 | 11-1-12 | -1218 | -1218 | ---  | BACK VERT |
| J                                 | 5-9-12  | -1218 | -1218 | ---  | BACK VERT |
| L                                 | 1-8-12  | -1218 | -1218 | ---  | BACK VERT |
| M                                 | 3-9-12  | -1218 | -1218 | ---  | BACK VERT |
| N                                 | 7-9-12  | -1218 | -1218 | ---  | BACK VERT |
| O                                 | 9-9-12  | -1218 | -1218 | ---  | BACK VERT |

DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 46.1 PSF

SPACING = 24.0 IN./C

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

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.75")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.13")  
ALLOWABLE DEFL. (TL) = L/360 (0.75")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.21")

CSI: TC=0.19 (B-C-1), BC=0.55 (J-K-1), WB=0.91 (B-K-1), SSI=0.85 (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 = 0.50

AUTOSOLVE HEELS OFF

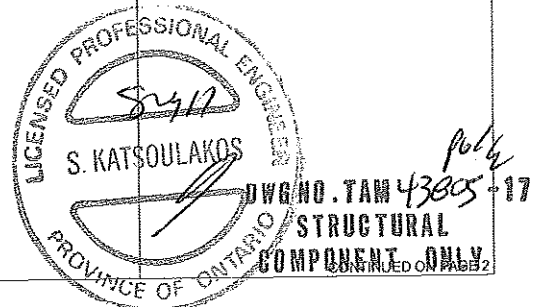
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg

JSI GRIP= 0.85 (B) (INPUT = 0.90)  
JSI METAL= 0.99 (B) (INPUT = 1.00)



|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 43854 | DRWG NO. |
| 282146   | T14        | 1        | 2   | TRUSS DESC. |       |          |

Tamareck Roof Truss, Burlington

Version 8.030 S Oct 5 2016 Mitek Industries, Inc. Tue Aug 29 20:54:39 2017 Page 2

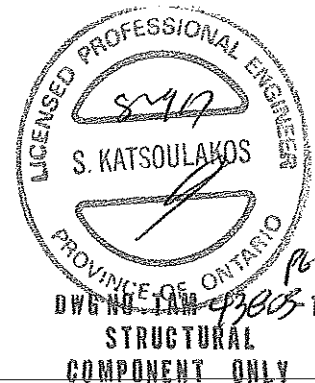
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#### HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 1218.5 lbs FACTORED DOWN AT 1-9-12, 1218.5 lbs FACTORED DOWN AT 3-9-12, 1218.5 lbs FACTORED DOWN AT 5-9-12, 1218.5 lbs FACTORED DOWN AT 7-9-12, 1218.5 lbs FACTORED DOWN AT 9-9-12, 1218.5 lbs FACTORED DOWN AT 11-1-12, 1218.5 lbs FACTORED DOWN AT 13-1-12, 1218.5 lbs FACTORED DOWN AT 15-1-12, 1218.5 lbs FACTORED DOWN AT 17-1-12, AND 1218.5 lbs FACTORED DOWN AT 19-1-12, AND 1218.5 lbs FACTORED DOWN AT 21-1-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1   | MAX-  | MAX+ | FACE | DIR. | TYPE  |
|----|---------|-------|-------|------|------|------|-------|
| P  | 13-1-12 | -1218 | -1218 | ---  | BACK | VERT | TOTAL |
| Q  | 15-1-12 | -1218 | -1218 | ---  | BACK | VERT | TOTAL |
| R  | 17-1-12 | -1218 | -1218 | ---  | BACK | VERT | TOTAL |
| S  | 19-1-12 | -1218 | -1218 | ---  | BACK | VERT | TOTAL |
| T  | 21-1-12 | -1218 | -1218 | ---  | BACK | VERT | TOTAL |

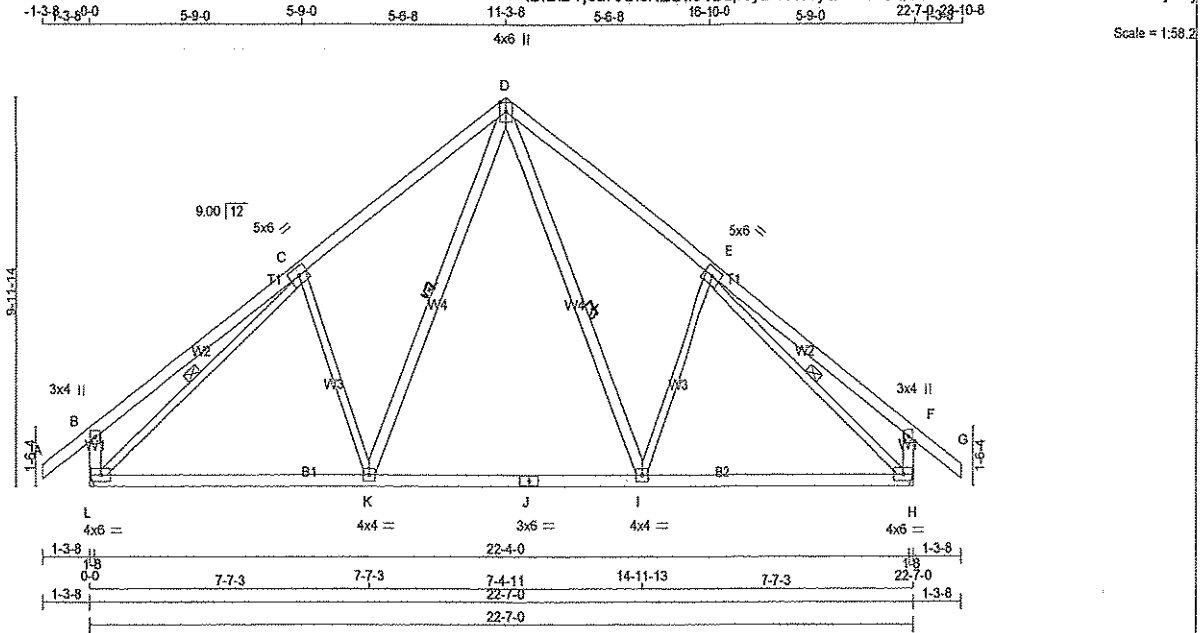


|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 43954 | DRWG NO. |
| 282146   | T15        | 3        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

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Scale = 1:58.2

TOTAL WEIGHT = 3 X 109 = 326 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    |
| L - B             | 2x4  | DRY No.2 | SPF    |
| H - F             | 2x4  | DRY No.2 | SPF    |
| L - J             | 2x4  | DRY No.2 | SPF    |
| J - H             | 2x4  | DRY No.2 | SPF    |
| ALL WEBS EXCEPT   | 2x4  | DRY No.2 | SPF    |
| I - E             | 2x3  | DRY No.2 | SPF    |
| C - K             | 2x3  | DRY No.2 | SPF    |
| L - C             | 2x3  | DRY No.2 | SPF    |
| E - H             | 2x3  | DRY No.2 | SPF    |

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X |
|----|---------|--------|-----|-----|------|---|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |   |
| C  | TMWW-t  | MT20   | 5.0 | 6.0 |      |   |
| D  | TTWW+p  | MT20   | 4.0 | 6.0 | Edge |   |
| E  | TMWW-t  | MT20   | 5.0 | 6.0 |      |   |
| F  | TMV+p   | MT20   | 3.0 | 4.0 |      |   |
| H  | BMVW1-t | MT20   | 4.0 | 6.0 |      |   |
| I  | BMVW1-t | MT20   | 4.0 | 4.0 |      |   |
| J  | BS-t    | MT20   | 3.0 | 6.0 |      |   |
| K  | BMWW-t  | MT20   | 4.0 | 4.0 |      |   |
| L  | 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

##### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG                                                       |
|----|-------------------------|---------------------------------|-----------|----------------------------------------------------------------|
| L  | 1384 0                  | 1384 0                          | 0         | HANGER BY OTHERS                                               |
| H  | 1384 0                  | 1384 0                          | 0         | MIN. SEAT SIZE: 1-8<br>HANGER BY OTHERS<br>MIN. SEAT SIZE: 1-8 |

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | SNOW    | LIVE    | PERM LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|---------|---------|-----------|-------|---------|-------|
| L  | 1120      | 648 / 0 | 237 / 0 | 0 / 0     | 0 / 0 | 234 / 0 | 0 / 0 |
| H  | 1120      | 648 / 0 | 237 / 0 | 0 / 0     | 0 / 0 | 234 / 0 | 0 / 0 |

##### 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-L, E-H. *D-14-10-3*

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                   |              | FR-TO |                           |              |          |
| A-B    | 0 / 35                    | -84.3 -84.3               | 0.11 (1)     | 10.00 | D-I                       | 0 / 555      | 0.09 (1) |
| B-C    | 0 / 34                    | -84.3 -84.3               | 0.44 (1)     | 10.00 | I-E                       | -308 / 45    | 0.18 (1) |
| C-D    | -1202 / 0                 | -84.3 -84.3               | 0.37 (1)     | 5.39  | K-D                       | 0 / 555      | 0.09 (1) |
| D-E    | -1202 / 0                 | -84.3 -84.3               | 0.37 (1)     | 5.39  | C-K                       | -308 / 45    | 0.18 (1) |
| E-F    | 0 / 34                    | -84.3 -84.3               | 0.44 (1)     | 10.00 | L-C                       | -1445 / 0    | 0.58 (1) |
| F-G    | 0 / 35                    | -84.3 -84.3               | 0.11 (1)     | 10.00 | E-H                       | -1445 / 0    | 0.58 (1) |
| L-B    | -295 / 0                  | 0.0 0.0                   | 0.03 (1)     | 7.81  |                           |              |          |
| H-F    | -295 / 0                  | 0.0 0.0                   | 0.03 (1)     | 7.81  |                           |              |          |
| L-K    | 0 / 1041                  | -28.0 -28.0               | 0.49 (2)     | 10.00 |                           |              |          |
| K-J    | 0 / 736                   | -28.0 -28.0               | 0.45 (2)     | 10.00 |                           |              |          |
| J-I    | 0 / 736                   | -28.0 -28.0               | 0.45 (2)     | 10.00 |                           |              |          |
| I-H    | 0 / 1041                  | -28.0 -28.0               | 0.49 (2)     | 10.00 |                           |              |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |      |      |     |
|------------|------|------|-----|
| TOP CH.    | LL = | 25.6 | PSF |
|            | DL = | 3.0  | PSF |
| BOT CH.    | LL = | 10.5 | PSF |
|            | DL = | 7.0  | PSF |
| TOTAL LOAD | =    | 46.1 | PSF |

SPACING = 24.0 IN. C/C

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

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) =  $L/360$  (0.75")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.13")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.75")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.22")

CSI: TC=0.44 (B-C-1), BC=0.49 (H-I-2), WB=0.58 (C-L-1), SSI=0.18 (C-D-1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

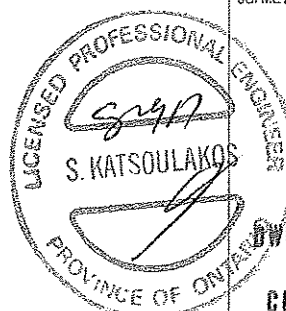
##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (H) (INPUT = 0.90)  
JSI METAL= 0.38 (E) (INPUT = 1.00)



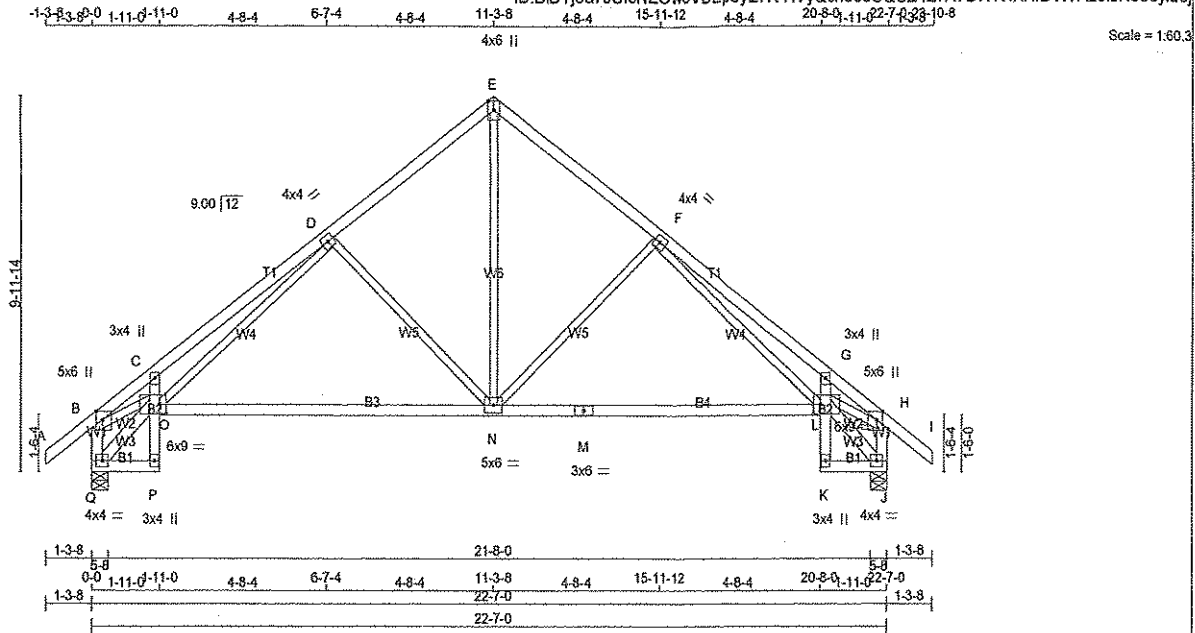
DRWG NO. YAM 43806 17  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 43854 | DRWG NO. |
| 282146   | T16        | 2        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 104 = 209 lb

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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |          |        |     |     |           |
|-----------------------------|----------|--------|-----|-----|-----------|
| JT                          | TYPE     | PLATES | W   | LEN | Y X       |
| B                           | TMVW+p   | MT20   | 5.0 | 6.0 | 2.75 2.00 |
| C                           | TMV+p    | MT20   | 3.0 | 4.0 |           |
| D                           | TMVW-l   | MT20   | 4.0 | 4.0 |           |
| E                           | TTW+p    | MT20   | 4.0 | 6.0 | Edge      |
| F                           | TMVW-l   | MT20   | 4.0 | 4.0 |           |
| G                           | TMV+p    | MT20   | 3.0 | 4.0 |           |
| H                           | TMVW+p   | MT20   | 5.0 | 6.0 | 2.75 2.00 |
| J                           | BMVW1-l  | MT20   | 4.0 | 4.0 |           |
| K                           | BMV+p    | MT20   | 3.0 | 4.0 |           |
| L                           | BMVWVW-l | MT20   | 6.0 | 9.0 | 3.00 2.25 |
| M                           | BS-l     | MT20   | 3.0 | 6.0 |           |
| N                           | BMVWVW-l | MT20   | 5.0 | 6.0 |           |
| O                           | BMVWVW-l | MT20   | 6.0 | 9.0 | 3.00 2.25 |
| P                           | BMV+p    | MT20   | 3.0 | 4.0 |           |
| Q                           | BMVW1-l  | 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       | MAXIMUM        | FACTORED | INPUT | REQD   |       |       |
|          | GROSS REACTION | GROSS REACTION | BRG      | BRG   | BRG    |       |       |
| JT       | VERT           | HORZ           | DOWN     | HORZ  | UPLIFT | IN-SX | IN-SX |
| Q        | 1384           | 0              | 1384     | 0     | 0      | 5-8   | 5-8   |
| J        | 1384           | 0              | 1384     | 0     | 0      | 5-8   | 5-8   |

| UNFACTORED REACTIONS |           |         |         |           |           |         |       |
|----------------------|-----------|---------|---------|-----------|-----------|---------|-------|
|                      | 1ST LCASE | MAX     | MIN     | COMPONENT | REACTIONS |         |       |
| JT                   | COMBINED  | SNOW    | LIVE    | PERM      | LIVE      | WIND    | DEAD  |
| Q                    | 1120      | 648 / 0 | 237 / 0 | 0 / 0     | 0 / 0     | 234 / 0 | 0 / 0 |
| J                    | 1120      | 648 / 0 | 237 / 0 | 0 / 0     | 0 / 0     | 234 / 0 | 0 / 0 |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.16 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING  
TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | 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    | 0 / 35                    | -84.3                     | -84.3 0.11 (1)            | 10.00 | N-E                       | 0 / 1063                  | 0.24 (1) |
| B-C    | -2341 / 0                 | -84.3                     | -84.3 0.14 (1)            | 4.38  | N-F                       | -521 / 0                  | 0.42 (1) |
| C-D    | -2380 / 0                 | -84.3                     | -84.3 0.35 (1)            | 4.16  | D-N                       | -521 / 0                  | 0.42 (1) |
| D-E    | -1162 / 0                 | -84.3                     | -84.3 0.27 (1)            | 5.60  | Q-O                       | -85 / 0                   | 0.01 (1) |
| E-F    | -1162 / 0                 | -84.3                     | -84.3 0.27 (1)            | 5.60  | B-O                       | 0 / 1875                  | 0.42 (1) |
| F-G    | -2380 / 0                 | -84.3                     | -84.3 0.35 (1)            | 4.16  | L-J                       | -85 / 0                   | 0.01 (1) |
| G-H    | -2341 / 0                 | -84.3                     | -84.3 0.14 (1)            | 4.38  | L-H                       | 0 / 1875                  | 0.42 (1) |
| H-I    | 0 / 35                    | -84.3                     | -84.3 0.11 (1)            | 10.00 | Q-D                       | 0 / 904                   | 0.20 (1) |
| Q-B    | -1304 / 0                 | 0.0                       | 0.0 0.14 (1)              | 7.07  | F-L                       | 0 / 904                   | 0.20 (1) |
| J-H    | -1304 / 0                 | 0.0                       | 0.0 0.14 (1)              | 7.07  |                           |                           |          |

|     |          |       |                |       |
|-----|----------|-------|----------------|-------|
| Q-P | 0 / 65   | -28.0 | -28.0 0.03 (2) | 10.00 |
| P-O | 0 / 43   | 0.0   | 0.0 0.14 (1)   | 10.00 |
| O-C | -227 / 0 | 0.0   | 0.0 0.10 (1)   | 7.81  |
| O-N | 0 / 1276 | -28.0 | -28.0 0.89 (2) | 10.00 |
| N-M | 0 / 1276 | -28.0 | -28.0 0.89 (2) | 10.00 |
| M-L | 0 / 1276 | -28.0 | -28.0 0.89 (2) | 10.00 |
| K-L | 0 / 43   | 0.0   | 0.0 0.14 (1)   | 10.00 |
| L-G | -227 / 0 | 0.0   | 0.0 0.10 (1)   | 7.81  |
| K-J | 0 / 65   | -28.0 | -28.0 0.03 (2) | 10.00 |

DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 46.1 PSF

SPACING = 24.0 IN./C/C

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

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

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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.75")  
CALCULATED VERT. DEFL.(LL)= L/984 (0.28")  
ALLOWABLE DEFL.(TL)= L/360 (0.75")  
CALCULATED VERT. DEFL.(TL)= L/582 (0.47")

CSI: TC=0.35 (F-G:1), BC=0.89 (N-O:2), WB=0.42 (B-O:1), SSI=0.23 (L-N:3)

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

COMPANION LIVE LOAD FACTOR = 0.50

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         | MIN       | MIN   | MIN     | MIN           |
| MT20        | 618       | 354   | 1667    | 822 2284 1656 |

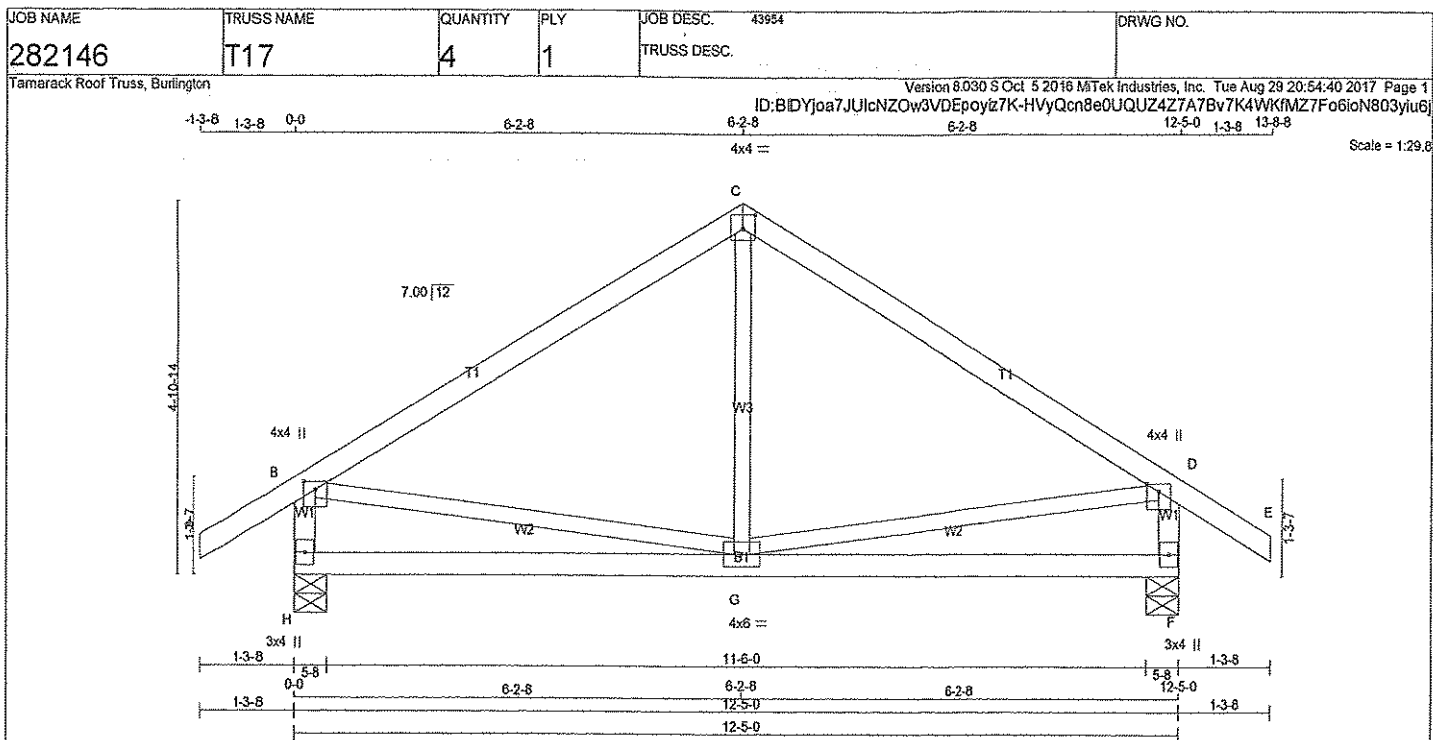
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SSI GRIP= 0.83 (D) (INPUT = 0.90)  
SSI METAL= 0.42 (B) (INPUT = 1.00)



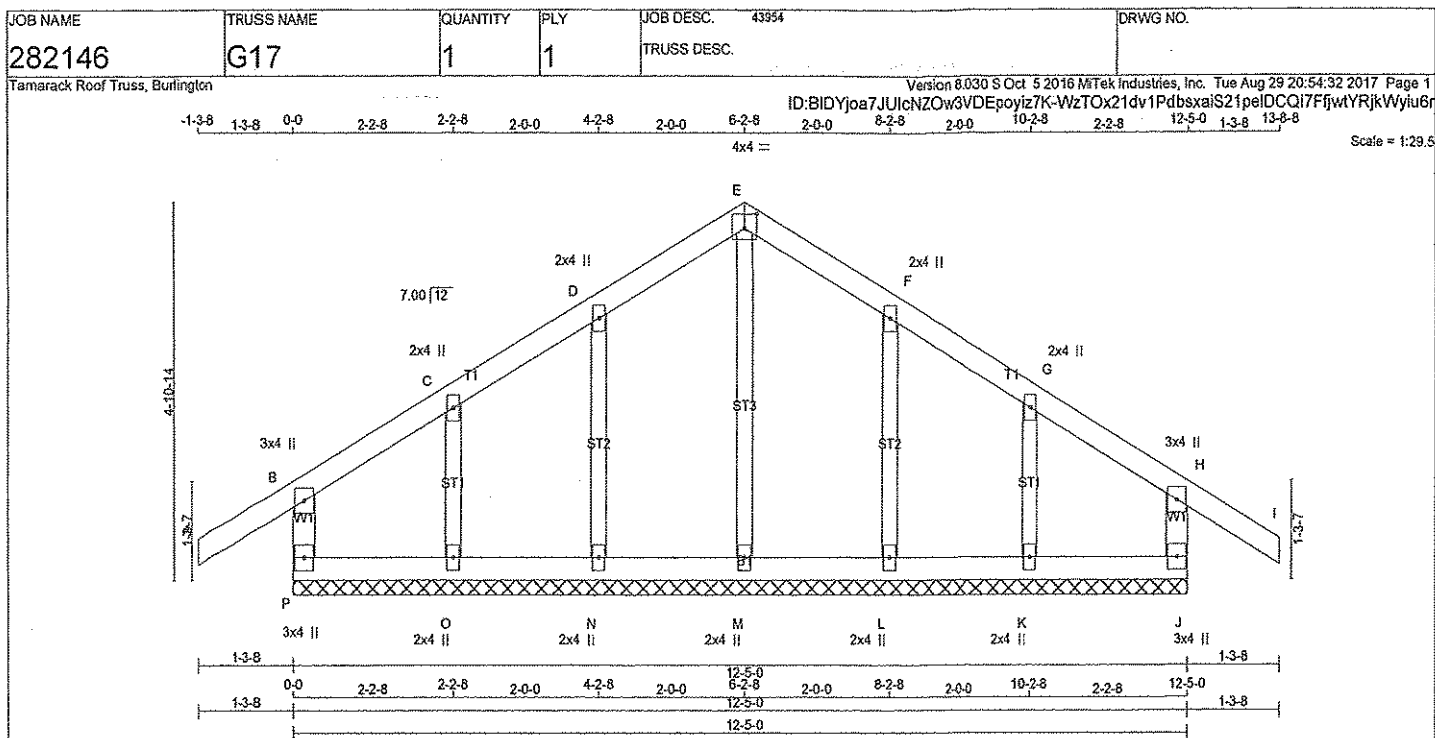
DW8 NO. TAM 43801-17  
STRUCTURAL  
COMPONENT ONLY



|                       |      |        |        |                                                                                                                                                |                  |                     |            |                                                                                                                                                                        |       |          |                            |
|-----------------------|------|--------|--------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|----------------------------|
| <b>LUMBER</b>         |      |        |        | <b>DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</b>                                           |                  |                     |            | <b>DESIGN CRITERIA</b>                                                                                                                                                 |       |          |                            |
| N. L. G. A. RULES     |      |        |        | <b>BEARINGS</b>                                                                                                                                |                  |                     |            | SPECIFIED LOADS:                                                                                                                                                       |       |          |                            |
| CHORDS                | SIZE | LUMBER | DESCR. | FACTORED                                                                                                                                       | MAXIMUM FACTORED | INPUT               | REQD       | TOP CH.                                                                                                                                                                | LL    | =        | 25.6 PSF                   |
| A - C                 | 2x4  | DRY    | No.2   | GROSS REACTION                                                                                                                                 | GROSS REACTION   | BRG                 | BRG        | DL                                                                                                                                                                     | =     | 3.0 PSF  |                            |
| C - E                 | 2x4  | DRY    | No.2   | JT VERT                                                                                                                                        | HORZ             | DOWN                | HORZ       | BOT CH.                                                                                                                                                                | LL    | =        | 10.5 PSF                   |
| H - B                 | 2x4  | DRY    | No.2   | H                                                                                                                                              | 812              | 0                   | 812        | DL                                                                                                                                                                     | =     | 7.0 PSF  |                            |
| F - D                 | 2x4  | DRY    | No.2   | F                                                                                                                                              | 812              | 0                   | 812        | TOTAL LOAD                                                                                                                                                             | =     | 46.1 PSF |                            |
| H - F                 | 2x4  | DRY    | No.2   |                                                                                                                                                |                  |                     |            | <b>SPACING = 24.0 IN. C/C</b>                                                                                                                                          |       |          |                            |
| ALL WEBS              | 2x3  | DRY    | No.2   | <b>UNFACTORED REACTIONS</b>                                                                                                                    |                  |                     |            | THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010                                                                              |       |          |                            |
| EXCEPT                |      |        |        | 1ST LCASE                                                                                                                                      | MAX/MIN          | COMPONENT REACTIONS |            | THIS DESIGN COMPLIES WITH:<br>- PART 9 OF OBC 2012, BCBC 2012, ABC 2014<br>- CSA 086-09<br>- TPIC 2011                                                                 |       |          |                            |
| DRY: SEASONED LUMBER. |      |        |        | JT                                                                                                                                             | SNOW             | LIVE                | PERM. LIVE | WIND                                                                                                                                                                   | DEAD  | SOIL     |                            |
|                       |      |        |        | H                                                                                                                                              | 650              | 388 / 0             | 130 / 0    | 0 / 0                                                                                                                                                                  | 0 / 0 | 132 / 0  | 0 / 0                      |
|                       |      |        |        | F                                                                                                                                              | 650              | 388 / 0             | 130 / 0    | 0 / 0                                                                                                                                                                  | 0 / 0 | 132 / 0  | 0 / 0                      |
|                       |      |        |        | <b>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) H, F</b>                                                                              |                  |                     |            | ALLOWABLE DEFL (LL) = L/360 (0.41")<br>CALCULATED VERT. DEFL (LL) = L/999 (0.05")<br>ALLOWABLE DEFL (TL) = L/360 (0.41")<br>CALCULATED VERT. DEFL (TL) = L/999 (0.08") |       |          |                            |
|                       |      |        |        | <b>BRACING</b>                                                                                                                                 |                  |                     |            | CSI: TC=0.42 (C-D:1), BC=0.31 (G-H:3), WB=0.11 (B-G:1), SSI=0.18 (B-C:1)                                                                                               |       |          |                            |
|                       |      |        |        | TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.<br>MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. |                  |                     |            | DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10<br>COMP=1.10 SHEAR=1.10 TENS= 1.10                                                                                              |       |          |                            |
|                       |      |        |        | <b>LOADING</b>                                                                                                                                 |                  |                     |            | COMPANION LIVE LOAD FACTOR = 0.50                                                                                                                                      |       |          |                            |
|                       |      |        |        | TOTAL LOAD CASES: (4)                                                                                                                          |                  |                     |            | TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.                                                                      |       |          |                            |
|                       |      |        |        | <b>CHORDS</b>                                                                                                                                  |                  |                     |            | <b>NAIL VALUES</b>                                                                                                                                                     |       |          |                            |
|                       |      |        |        | MEMB.                                                                                                                                          | MAX. FACTORED    | FORCE               | VERT. LOAD | LC1                                                                                                                                                                    | MAX   | MEMB.    | MAX. FACTORED              |
|                       |      |        |        |                                                                                                                                                | (LBS)            | (PLF)               | CSI (LC)   | UNBRAC                                                                                                                                                                 | MAX   |          | FORCE                      |
|                       |      |        |        | FR-TO                                                                                                                                          | FROM             | TO                  | LENGTH     | FR-TO                                                                                                                                                                  | TO    |          | MAX                        |
|                       |      |        |        | A-B                                                                                                                                            | 0 / 29           | -84.3               | -84.3      | 0.11 (1)                                                                                                                                                               | 10.00 | G-C      | 0 / 289                    |
|                       |      |        |        | B-C                                                                                                                                            | -577 / 0         | -84.3               | -84.3      | 0.42 (1)                                                                                                                                                               | 6.25  | B-G      | 0 / 505                    |
|                       |      |        |        | C-D                                                                                                                                            | -577 / 0         | -84.3               | -84.3      | 0.42 (1)                                                                                                                                                               | 6.25  | G-D      | 0 / 505                    |
|                       |      |        |        | D-E                                                                                                                                            | 0 / 29           | -84.3               | -84.3      | 0.11 (1)                                                                                                                                                               | 10.00 |          |                            |
|                       |      |        |        | H-B                                                                                                                                            | -748 / 0         | 0.0                 | 0.0        | 0.08 (1)                                                                                                                                                               | 7.81  |          |                            |
|                       |      |        |        | F-D                                                                                                                                            | -748 / 0         | 0.0                 | 0.0        | 0.08 (1)                                                                                                                                                               | 7.81  |          |                            |
|                       |      |        |        | H-G                                                                                                                                            | 0 / 0            | -28.0               | -28.0      | 0.31 (3)                                                                                                                                                               | 10.00 |          |                            |
|                       |      |        |        | G-F                                                                                                                                            | 0 / 0            | -28.0               | -28.0      | 0.31 (3)                                                                                                                                                               | 10.00 |          |                            |
|                       |      |        |        | <b>PLATES (table is in inches)</b>                                                                                                             |                  |                     |            | PLATE GRIP (DRY) SHEAR SECTION (PSI) (PL) (PL) (PL)                                                                                                                    |       |          |                            |
|                       |      |        |        | JT                                                                                                                                             | TYPE             | PLATES              | W          | LEN                                                                                                                                                                    | Y     | X        | MAX MIN MAX MIN MAX MIN    |
|                       |      |        |        | B                                                                                                                                              | TMVW+p           | MT20                | 4.0        | 4.0                                                                                                                                                                    | 1.25  | 2.00     | 618 354 1667 822 2284 1656 |
|                       |      |        |        | 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                                                                                                                                              | BMVW+t           | MT20                | 4.0        | 6.0                                                                                                                                                                    |       |          |                            |
|                       |      |        |        | H                                                                                                                                              | BMV1+p           | MT20                | 3.0        | 4.0                                                                                                                                                                    |       |          |                            |
|                       |      |        |        | <b>PLATE PLACEMENT TOL. = 0.250 inches</b>                                                                                                     |                  |                     |            | <b>PLATE ROTATION TOL. = 5.0 Deg.</b>                                                                                                                                  |       |          |                            |
|                       |      |        |        | <b>JSI GRIP= 0.67 (G) (INPUT = 0.90)</b>                                                                                                       |                  |                     |            | <b>JSI METAL= 0.18 (D) (INPUT = 1.00)</b>                                                                                                                              |       |          |                            |



DRWG NO. TAM 43654  
STRUCTURAL  
COMPONENT ONLY



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

|                      |     |     |      |     |
|----------------------|-----|-----|------|-----|
| ALL WEBS             | 2x3 | DRY | No.2 | SPF |
| ALL GABLE WEBS       | 2x3 | DRY | No.2 | SPF |
| DRY, SEASONED LUMBER |     |     |      |     |

GABLE STUDS SPACED AT 2-0-0 OC.

| PLATES (table is in inches) |        |     |     |           |
|-----------------------------|--------|-----|-----|-----------|
| JT TYPE                     | PLATES | W   | LEN | Y X       |
| B TMV+p                     | MT20   | 3.0 | 4.0 |           |
| C, D, F, G                  |        |     |     |           |
| C TMW+w                     | MT20   | 2.0 | 4.0 |           |
| E TTW+p                     | MT20   | 4.0 | 4.0 | 2.25 2.00 |
| H TMV+p                     | MT20   | 3.0 | 4.0 |           |
| J BMV1+p                    | MT20   | 3.0 | 4.0 |           |
| K, L, M, N, O               |        |     |     |           |
| K BMW1+w                    | MT20   | 2.0 | 4.0 |           |
| P BMV1+p                    | MT20   | 3.0 | 4.0 |           |

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

#### BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

#### BRACING

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

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                                | WEBS     |                           |                           |                                |
|--------|---------------------------|---------------------------|--------------------------------|----------|---------------------------|---------------------------|--------------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC1) | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC1) |
| FR-TO  |                           | FROM                      | TO                             | FR-TO    |                           | FROM                      | TO                             |
| A-B    | 0/29                      | -84.3                     | -84.3                          | 0.11 (1) | 10.00                     | M-E                       | -161/0                         |
| B-C    | -27/0                     | -84.3                     | -84.3                          | 0.05 (1) | 6.25                      | N-D                       | -169/0                         |
| C-D    | -19/0                     | -84.3                     | -84.3                          | 0.04 (1) | 6.25                      | O-C                       | -169/0                         |
| D-E    | -17/0                     | -84.3                     | -84.3                          | 0.04 (1) | 6.25                      | L-F                       | -169/0                         |
| E-F    | -17/0                     | -84.3                     | -84.3                          | 0.04 (1) | 6.25                      | K-G                       | -169/0                         |
| F-G    | -19/0                     | -84.3                     | -84.3                          | 0.04 (1) | 6.25                      |                           |                                |
| G-H    | -27/0                     | -84.3                     | -84.3                          | 0.05 (1) | 6.25                      |                           |                                |
| H-I    | 0/29                      | -84.3                     | -84.3                          | 0.11 (1) | 10.00                     |                           |                                |
| P-B    | -220/0                    | 0.0                       | 0.0                            | 0.02 (2) | 7.81                      |                           |                                |
| J-H    | -220/0                    | 0.0                       | 0.0                            | 0.02 (2) | 7.81                      |                           |                                |
| P-O    | 0/22                      | -28.0                     | -28.0                          | 0.03 (2) | 10.00                     |                           |                                |
| O-N    | 0/16                      | -28.0                     | -28.0                          | 0.03 (3) | 10.00                     |                           |                                |
| N-M    | 0/15                      | -28.0                     | -28.0                          | 0.03 (2) | 10.00                     |                           |                                |
| M-L    | 0/15                      | -28.0                     | -28.0                          | 0.03 (2) | 10.00                     |                           |                                |
| L-K    | 0/16                      | -28.0                     | -28.0                          | 0.03 (3) | 10.00                     |                           |                                |
| K-J    | 0/22                      | -28.0                     | -28.0                          | 0.03 (2) | 10.00                     |                           |                                |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |   |      |     |
|------------|---|------|-----|
| TOP CH. LL | = | 25.6 | PSF |
| DL         | = | 3.0  | PSF |
| BOT CH. LL | = | 10.5 | PSF |
| DL         | = | 7.0  | PSF |
| TOTAL LOAD | = | 46.1 | PSF |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.11 (A-B:1), BC=0.03 (J-K:2), WB=0.03 (E-M:1), SSI=0.08 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.13 (E) (INPUT = 0.90)  
JSI METAL= 0.05 (E) (INPUT = 1.00)



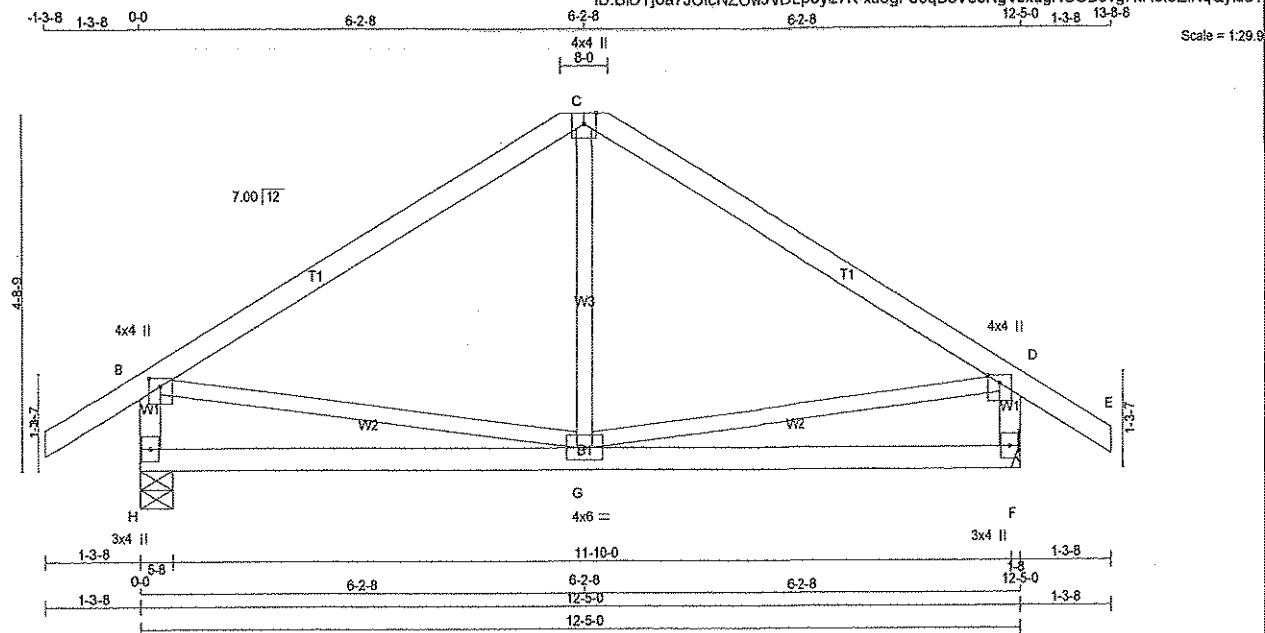
DWG NO. TAW/3810-17  
STRUCTURAL  
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|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 43954 | DRWG NO. |
| 282152   | T17C       | 1        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 49 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    |        |
| H - B           | 2x4               | DRY    | No.2 | SPF    |        |
| F - D           | 2x4               | DRY    | No.2 | SPF    |        |
| H - F           | 2x4               | DRY    | No.2 | SPF    |        |
| ALL WEBS EXCEPT | 2x3               | DRY    | No.2 | SPF    |        |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| C  | TMTMW+p | MT20   | 4.0 | 4.0 | Edge |      |
| 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 | 6.0 |      |      |
| H  | 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 |
|----|-------------------------|---------------------------------|-----------|----------|
|    | VERT                    | HORZ                            | DOWN      | HORZ     |
| JT | 812                     | 0                               | 812       | 0        |
| H  | 812                     | 0                               | 812       | 0        |
| F  | 812                     | 0                               | 812       | 0        |

##### UNFACTORED REACTIONS

|    | 1ST LCASE COMBINED | MAX./MIN. SNOW | MIN. COMPONENT LIVE | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|--------------------|----------------|---------------------|-----------|-------|---------|-------|
| JT | 650                | 388 / 0        | 130 / 0             | 0 / 0     | 0 / 0 | 132 / 0 | 0 / 0 |
| H  | 650                | 388 / 0        | 130 / 0             | 0 / 0     | 0 / 0 | 132 / 0 | 0 / 0 |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               | WEBS  |                           |               |  |
|--------|---------------------------|---------------------------|---------------|-------|---------------------------|---------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |  |
| FR-TO  |                           | FROM TO                   |               | FR-TO |                           |               |  |
| A-B    | 0 / 29                    | -84.3 -84.3               | 0.11 (1)      | G-C   | 0 / 289                   | 0.08 (3)      |  |
| B-C    | -577 / 0                  | -84.3 -84.3               | 0.42 (1)      | B-G   | 0 / 505                   | 0.11 (1)      |  |
| C-D    | -577 / 0                  | -84.3 -84.3               | 0.42 (1)      | G-D   | 0 / 505                   | 0.11 (1)      |  |
| D-E    | 0 / 29                    | -84.3 -84.3               | 0.11 (1)      |       |                           |               |  |
| H-B    | -746 / 0                  | 0.0 0.0                   | 0.08 (1)      |       |                           |               |  |
| F-D    | -746 / 0                  | 0.0 0.0                   | 0.08 (1)      |       |                           |               |  |
| H-G    | 0 / 0                     | -28.0 -28.0               | 0.31 (3)      |       |                           |               |  |
| G-F    | 0 / 0                     | -28.0 -28.0               | 0.31 (3)      |       |                           |               |  |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 46.1 PSF

SPACING = 24.0 IN./C

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

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.41")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.05")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.41")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.08")

CSI: TC=0.42 (B-C:1), BC=0.31 (G-H:3), WB=0.11 (B-G:1), SSI=0.18 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

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

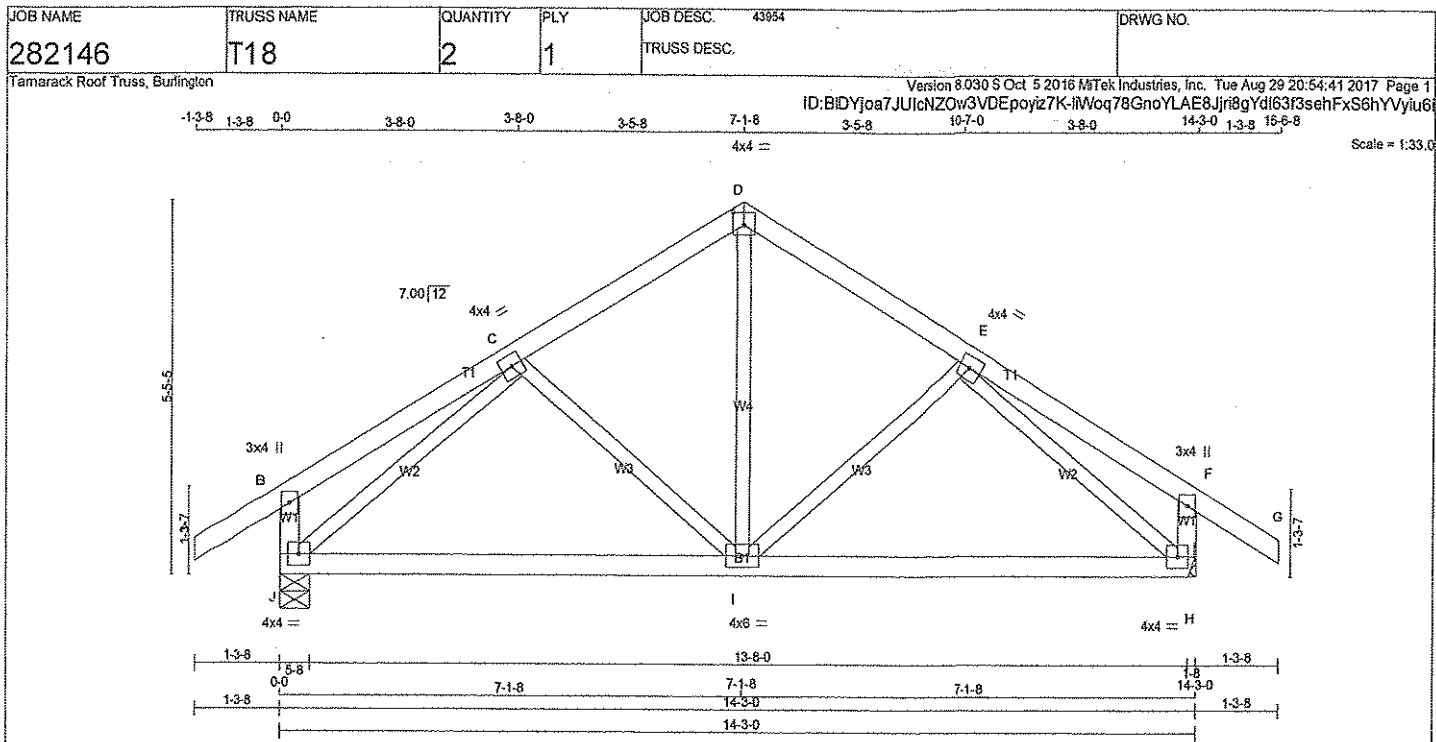
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.67 (G) (INPUT = 0.90)  
JSI METAL= 0.18 (D) (INPUT = 1.00)



DWG NO. TAM 43815-17  
STRUCTURAL  
COMPONENT ONLY



TOTAL WEIGHT = 2 X 59 = 118 lb

[M][F]

**LUMBER**

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWW-t  | MT20   | 4.0 | 4.0 |      |      |
| D  | TTW-p   | MT20   | 4.0 | 4.0 | 2.25 | 2.00 |
| E  | TMWW-t  | MT20   | 4.0 | 4.0 |      |      |
| F  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVW1-t | MT20   | 4.0 | 4.0 |      |      |
| I  | BMVWW-t | MT20   | 4.0 | 6.0 |      |      |
| J  | BMVW1-t | MT20   | 4.0 | 4.0 |      |      |

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

**BEARINGS**

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| J  | 915                     | 0                               | 915       | 0        |
| H  | 915                     | 0                               | 915       | 0        |

HANGER BY OTHERS  
MIN. SEAT SIZE: 1-8

**UNFACTORED REACTIONS**

| JT | 1ST CASE | SNOW    | LIVE    | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|---------|---------|------------|-------|---------|-------|
| J  | 735      | 434 / 0 | 150 / 0 | 0 / 0      | 0 / 0 | 151 / 0 | 0 / 0 |
| H  | 735      | 434 / 0 | 150 / 0 | 0 / 0      | 0 / 0 | 151 / 0 | 0 / 0 |

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

**BRACING**

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LOAD LC1 (LC) | MAX. UNBRACED LENGTH (FT) | WEBS MAX. FACTORED FORCE (LBS) | MAX. LOAD LC1 (LC) |           |
|-------|----------------------------------|---------------------------|--------------------|---------------------------|--------------------------------|--------------------|-----------|
| FR-TO |                                  | FROM TO                   |                    |                           | FR-TO                          |                    |           |
| A-B   | 0 / 29                           | -84.3                     | -84.3              | 0.11 (1)                  | 10.00                          | I-D                | 0 / 453   |
| B-C   | 0 / 17                           | -84.3                     | -84.3              | 0.16 (1)                  | 10.00                          | I-E                | -158 / 48 |
| C-D   | -698 / 0                         | -84.3                     | -84.3              | 0.13 (1)                  | 6.25                           | C-I                | -158 / 48 |
| D-E   | -698 / 0                         | -84.3                     | -84.3              | 0.13 (1)                  | 6.25                           | J-C                | -933 / 0  |
| E-F   | 0 / 17                           | -84.3                     | -84.3              | 0.16 (1)                  | 10.00                          | E-H                | -933 / 0  |
| F-G   | 0 / 29                           | -84.3                     | -84.3              | 0.11 (1)                  | 10.00                          |                    |           |
| J-B   | -232 / 0                         | 0.0                       | 0.0                | 0.02 (1)                  | 7.81                           |                    |           |
| H-F   | -232 / 0                         | 0.0                       | 0.0                | 0.02 (1)                  | 7.81                           |                    |           |
| J-I   | 0 / 709                          | -28.0                     | -28.0              | 0.49 (2)                  | 10.00                          |                    |           |
| I-H   | 0 / 709                          | -28.0                     | -28.0              | 0.49 (2)                  | 10.00                          |                    |           |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

|            |   |      |     |
|------------|---|------|-----|
| TOP CH. LL | = | 25.6 | PSF |
| DL         | = | 3.0  | PSF |
| BOT CH. LL | = | 10.5 | PSF |
| DL         | = | 7.0  | PSF |
| TOTAL LOAD | = | 46.1 | PSF |

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

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

THIS DESIGN COMPLIES WITH:

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)=  $L/360$  (0.47")  
CALCULATED VERT. DEFL.(LL)=  $L/999$  (0.08")  
ALLOWABLE DEFL.(TL)=  $L/360$  (0.47")  
CALCULATED VERT. DEFL.(TL)=  $L/999$  (0.13")

CSI: TC=0.15 (E-F:1), BC=0.49 (I-J:2), WB=0.33 (E-H:1), SSI=0.17 (H-I:3)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

**NAIL VALUES**

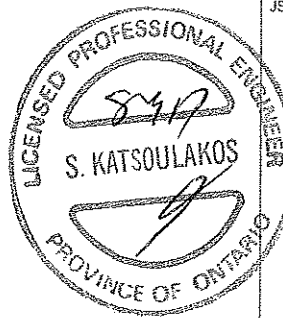
| PLATE | GRIP (DRY) | SHEAR    | SECTION   |
|-------|------------|----------|-----------|
|       | (PSI)      | (PLI)    | (PLI)     |
|       | MAX MIN    | MAX MIN  | MAX MIN   |
| MT20  | 618 354    | 1667 822 | 2284 1658 |

PLATE PLACEMENT TOL. = 0.250 inches

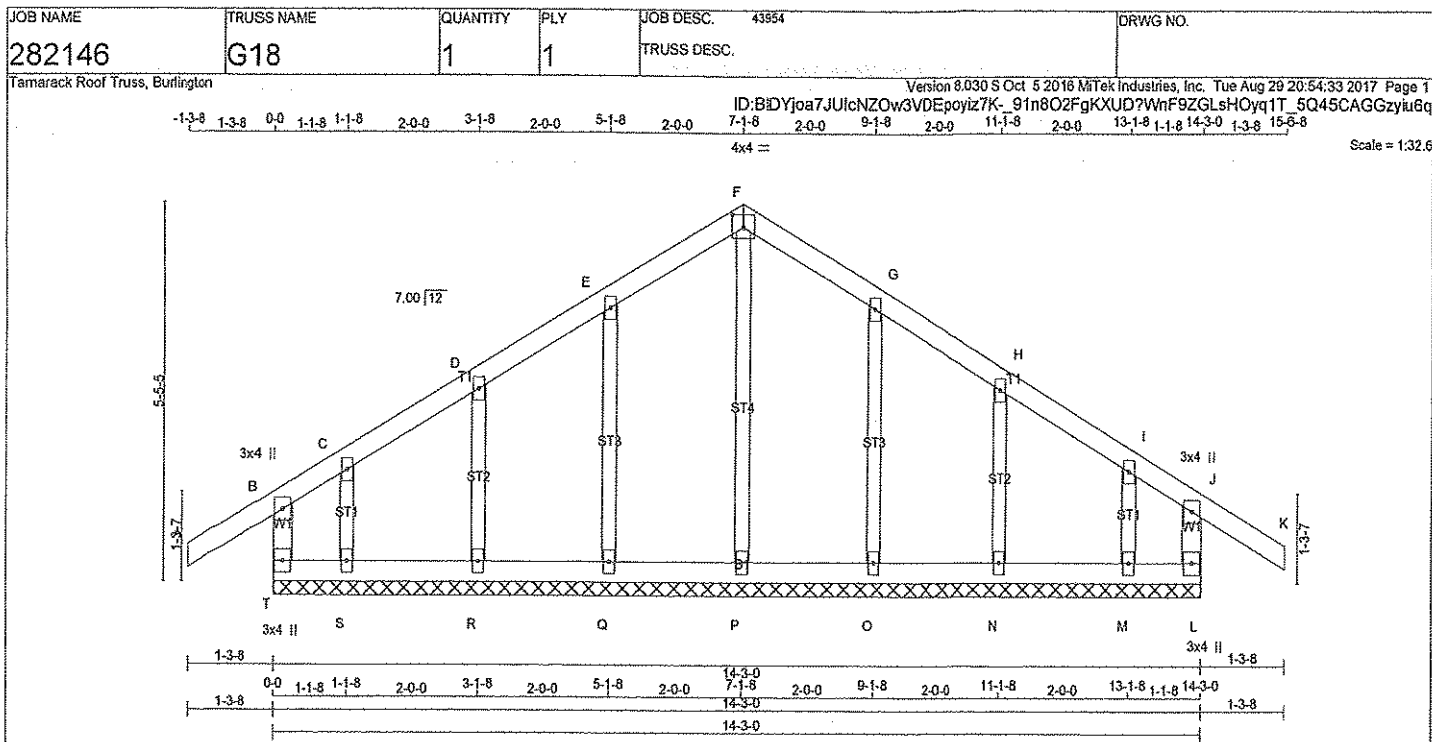
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.81 (H) (INPUT = 0.90)  
JSI METAL= 0.32 (E) (INPUT = 1.00)

DWG NO. TAM 43809-17  
STRUCTURAL  
COMPONENT ONLY



DRWG NO. TAM 43809-17  
**STRUCTURAL COMPONENT ONLY**



**LUMBER**

N. L. G. A. RULES

| CHORDS | SIZE | DRY | LUMBER | DESCR. |
|--------|------|-----|--------|--------|
| A - F  | 2x4  | DRY | No.2   | SPF    |
| F - K  | 2x4  | DRY | No.2   | SPF    |
| T - B  | 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 2-0-0 OC.

**PLATES (table is in inches)**

| JT TYPE             | PLATES | W   | LEN | Y    | X    |
|---------------------|--------|-----|-----|------|------|
| B TMV+p             | MT20   | 3.0 | 4.0 |      |      |
| C, D, E, G, H, I    |        |     |     |      |      |
| C TMW+w             | MT20   | 2.0 | 4.0 |      |      |
| F TTW+p             | MT20   | 4.0 | 4.0 | 2.25 | 2.00 |
| J TMV+p             | MT20   | 3.0 | 4.0 |      |      |
| L BMV1+p            | MT20   | 3.0 | 4.0 |      |      |
| M, N, O, P, Q, R, S |        |     |     |      |      |
| M BMW1+w            | MT20   | 2.0 | 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 = 10.00 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS     |                           |                           |          |
|--------|---------------------------|---------------------------|---------------------------|----------|---------------------------|---------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |          |
| FR-TO  |                           | FROM TO                   |                           | FR-TO    |                           |                           |          |
| A-B    | 0/29                      | -84.3 -84.3               | 0.11 (1)                  | 10.00    | P-F                       | -209/0                    | 0.09 (1) |
| B-C    | 0/4                       | -84.3 -84.3               | 0.07 (1)                  | 10.00    | Q-E                       | -170/0                    | 0.05 (1) |
| C-D    | 0/31                      | -84.3 -84.3               | 0.05 (1)                  | 10.00    | R-D                       | -175/0                    | 0.03 (1) |
| D-E    | 0/32                      | -84.3 -84.3               | 0.05 (1)                  | 10.00    | S-C                       | -81/0                     | 0.01 (1) |
| E-F    | 0/38                      | -84.3 -84.3               | 0.05 (1)                  | 10.00    | O-G                       | -170/0                    | 0.05 (1) |
| F-G    | 0/38                      | -84.3 -84.3               | 0.05 (1)                  | 10.00    | N-H                       | -175/0                    | 0.03 (1) |
| G-H    | 0/32                      | -84.3 -84.3               | 0.05 (1)                  | 10.00    | M-I                       | -81/0                     | 0.01 (1) |
| H-I    | 0/31                      | -84.3 -84.3               | 0.05 (1)                  | 10.00    |                           |                           |          |
| I-J    | 0/4                       | -84.3 -84.3               | 0.07 (1)                  | 10.00    |                           |                           |          |
| J-K    | 0/29                      | -84.3 -84.3               | 0.11 (1)                  | 10.00    |                           |                           |          |
| T-B    | -184/0                    | 0.0                       | 0.04 (1)                  | 7.81     |                           |                           |          |
| L-J    | -184/0                    | 0.0                       | 0.04 (1)                  | 7.81     |                           |                           |          |
| T-S    | -19/0                     | -28.0                     | -28.0                     | 0.02 (3) | 6.25                      |                           |          |
| S-R    | -23/0                     | -28.0                     | -28.0                     | 0.02 (2) | 6.25                      |                           |          |
| R-Q    | -28/0                     | -28.0                     | -28.0                     | 0.02 (2) | 6.25                      |                           |          |
| Q-P    | -31/0                     | -28.0                     | -28.0                     | 0.02 (2) | 6.25                      |                           |          |
| P-O    | -31/0                     | -28.0                     | -28.0                     | 0.02 (2) | 6.25                      |                           |          |
| O-N    | -28/0                     | -28.0                     | -28.0                     | 0.02 (2) | 6.25                      |                           |          |
| N-M    | -23/0                     | -28.0                     | -28.0                     | 0.02 (2) | 6.25                      |                           |          |
| M-L    | -19/0                     | -28.0                     | -28.0                     | 0.02 (3) | 6.25                      |                           |          |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

TOP CH. LL = 25.6 PSF

DL = 3.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 46.1 PSF

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

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

THIS DESIGN COMPLIES WITH:

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

**DESIGN ASSUMPTIONS**

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.11 (J-K:1), BC=0.02 (Q-R:2), WB=0.09 (F-P:1), SSI=0.09 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

**NAIL VALUES**

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (F) (INPUT = 0.90)

JSI METAL= 0.05 (F) (INPUT = 1.00)



DWG NO. TAM 43811-17

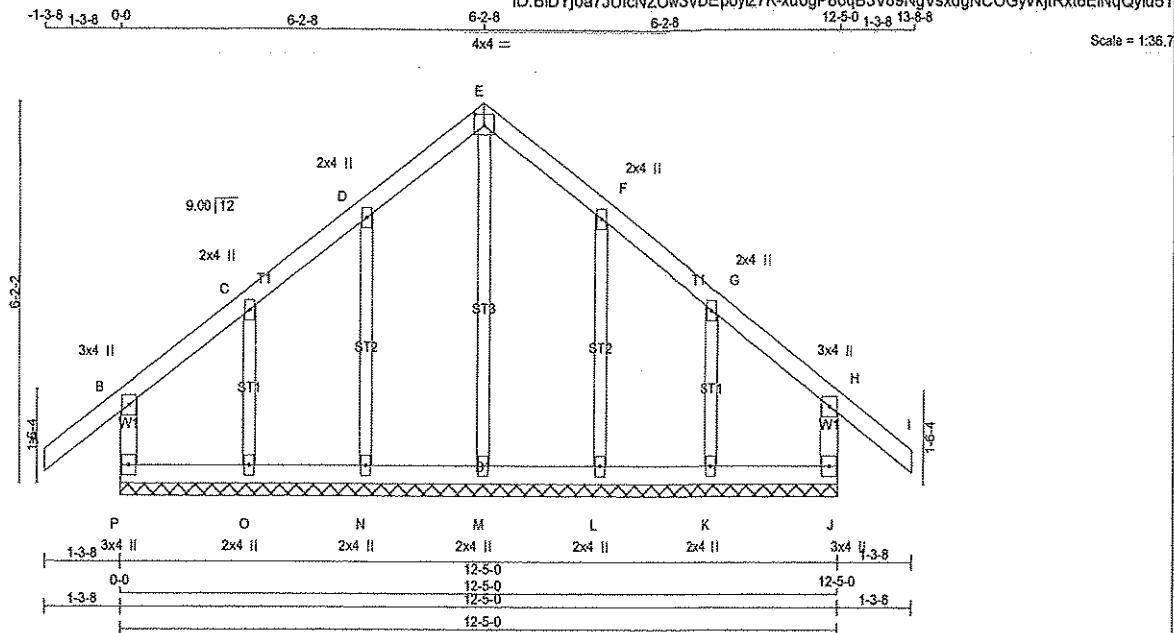
STRUCTURAL COMPONENT ONLY

|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 43854 | DRWG NO. |
| 282152   | G19        | 1        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 54 lb

#### LUMBER

N. L. G. A. RULES

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

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

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

#### PLATES (table is in inches)

| JT            | TYPE   | PLATES | W   | LEN | Y    | X    |
|---------------|--------|--------|-----|-----|------|------|
| B             | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| C, D, F, G    |        |        |     |     |      |      |
| C             | TMW+w  | MT20   | 2.0 | 4.0 |      |      |
| E             | TTW+p  | MT20   | 4.0 | 4.0 | 2.25 | 2.00 |
| H             | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| J             | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| K, L, M, N, O |        |        |     |     |      |      |
| K             | BMW1+w | MT20   | 2.0 | 4.0 |      |      |
| P             | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

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

BUILDING DESIGNER

#### BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

#### BRACING

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

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                | WEBS                 |       |                           |               |
|--------|---------------------------|---------------------------|----------------|----------------------|-------|---------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LC1 (LC)  | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. LC1 (LC) |
| FR-TO  |                           | FROM TO                   |                |                      | FR-TO |                           |               |
| P-B    | -224 / 0                  | 0.0                       | 0.0 0.02 (2)   | 7.81                 | M-E   | -158 / 0                  | 0.09 (1)      |
| A-B    | 0 / 35                    | -84.3                     | -84.3 0.11 (1) | 10.00                | N-D   | -169 / 0                  | 0.05 (1)      |
| B-C    | -28 / 0                   | -84.3                     | -84.3 0.05 (1) | 6.25                 | O-C   | -167 / 0                  | 0.03 (1)      |
| C-D    | -20 / 0                   | -84.3                     | -84.3 0.04 (1) | 6.25                 | L-F   | -169 / 0                  | 0.05 (1)      |
| D-E    | -16 / 0                   | -84.3                     | -84.3 0.04 (1) | 6.25                 | K-G   | -167 / 0                  | 0.03 (1)      |
| E-F    | -16 / 0                   | -84.3                     | -84.3 0.04 (1) | 6.25                 |       |                           |               |
| F-G    | -20 / 0                   | -84.3                     | -84.3 0.04 (1) | 6.25                 |       |                           |               |
| G-H    | -28 / 0                   | -84.3                     | -84.3 0.05 (1) | 6.25                 |       |                           |               |
| H-I    | 0 / 35                    | -84.3                     | -84.3 0.11 (1) | 10.00                |       |                           |               |
| J-H    | -224 / 0                  | 0.0                       | 0.0 0.02 (2)   | 7.81                 |       |                           |               |
| P-O    | 0 / 21                    | -28.0                     | -28.0 0.03 (2) | 10.00                |       |                           |               |
| O-N    | 0 / 16                    | -28.0                     | -28.0 0.03 (3) | 10.00                |       |                           |               |
| N-M    | 0 / 13                    | -28.0                     | -28.0 0.03 (2) | 10.00                |       |                           |               |
| M-L    | 0 / 13                    | -28.0                     | -28.0 0.03 (2) | 10.00                |       |                           |               |
| L-K    | 0 / 16                    | -28.0                     | -28.0 0.03 (3) | 10.00                |       |                           |               |
| K-J    | 0 / 21                    | -28.0                     | -28.0 0.03 (2) | 10.00                |       |                           |               |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |   |      |     |
|------------|---|------|-----|
| TOP CH. LL | = | 25.6 | PSF |
| DL         | = | 3.0  | PSF |
| BOT CH. LL | = | 10.5 | PSF |
| DL         | = | 7.0  | PSF |
| TOTAL LOAD | = | 46.1 | PSF |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

#### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.11 (H-I:1), BC=0.03 (J-K:2), WB=0.09 (E-M:1), SSI=0.07 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

#### NAIL VALUES

| PLATE | GRIP (DRY) | SHEAR (PS) | SECTION (PL)       |
|-------|------------|------------|--------------------|
|       |            |            |                    |
| MT20  | 618        | 354        | 1657 822 2284 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (E) (INPUT = 0.90 )  
JSI METAL= 0.05 (E) (INPUT = 1.00 )



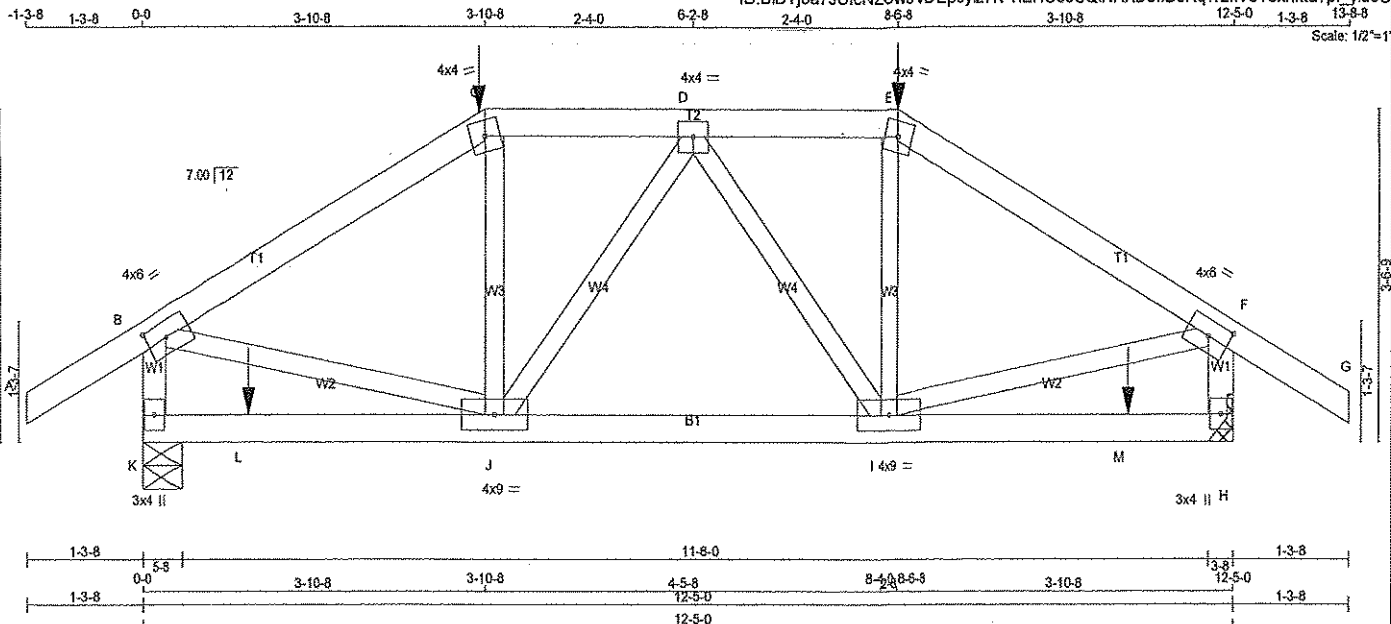
DRWG NO. TAM 43818-17  
STRUCTURAL  
COMPONENT ONLY

|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 43954 | DRWG NO. |
| 282152   | T20        | 1        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

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

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW-I  | MT20   | 4.0 | 6.0 | 2.00 | 3.00 |
| C  | TTW-m   | MT20   | 4.0 | 4.0 |      |      |
| D  | TMVW-I  | MT20   | 4.0 | 4.0 |      |      |
| E  | TTW-m   | MT20   | 4.0 | 4.0 |      |      |
| F  | TMVW-I  | MT20   | 4.0 | 6.0 | 2.00 | 3.00 |
| H  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| I  | BMVWW-I | MT20   | 4.0 | 9.0 |      |      |
| J  | BMVWW-I | MT20   | 4.0 | 9.0 |      |      |
| K  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |

#### HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 138.5 lbs FACTORED DOWN AT 3-10-8, AND 138.5 lbs FACTORED DOWN AT 8-6-8 ON TOP CHORD, AND 797.4 lbs FACTORED DOWN AT 11-2-8 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REORD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
|    | VERT                    | HORZ                            | DOWN      | UP        |
| JT | 1748                    | 0                               | 1748      | 0         |
| K  | 1748                    | 0                               | 1748      | 0         |
| H  | 1748                    | 0                               | 1748      | 0         |

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX/MIN | COMPONENT REACTIONS | WIND  | DEAD    | SOIL  |
|----|-----------|---------|---------------------|-------|---------|-------|
| K  | 1360      | 877 / 0 | 228 / 0             | 0 / 0 | 255 / 0 | 0 / 0 |
| H  | 1360      | 877 / 0 | 228 / 0             | 0 / 0 | 255 / 0 | 0 / 0 |

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

##### 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.

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                | WEBS  |                           |               |          |
|--------|---------------------------|---------------------------|----------------|-------|---------------------------|---------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LC1 (LC)  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. LC1 (LC) |          |
| FR-TO  |                           | FROM TO                   |                | FR-TO |                           |               |          |
| A-B    | 0 / 29                    | -84.3                     | -84.3 0.12 (1) | 10.00 | J-C                       | 0 / 264       | 0.07 (2) |
| B-C    | -1268 / 0                 | -84.3                     | -84.3 0.27 (1) | 5.36  | I-E                       | 0 / 264       | 0.07 (2) |
| C-D    | -1107 / 0                 | -84.3                     | -84.3 0.08 (1) | 5.91  | B-J                       | 0 / 1125      | 0.28 (1) |
| D-E    | -1107 / 0                 | -84.3                     | -84.3 0.08 (1) | 5.91  | I-F                       | 0 / 1125      | 0.28 (1) |
| E-F    | -1268 / 0                 | -84.3                     | -84.3 0.27 (1) | 5.36  | J-D                       | -133 / 0      | 0.04 (1) |
| F-G    | 0 / 29                    | -84.3                     | -84.3 0.12 (1) | 10.00 | D-I                       | -133 / 0      | 0.04 (1) |
| K-B    | -1163 / 0                 | 0.0                       | 0.0 0.13 (1)   | 7.31  |                           |               |          |
| H-F    | -1163 / 0                 | 0.0                       | 0.0 0.13 (1)   | 7.31  |                           |               |          |
| K-L    | 0 / 0                     | -28.0                     | -28.0 0.99 (1) | 10.00 |                           |               |          |
| L-J    | 0 / 0                     | -28.0                     | -28.0 0.99 (1) | 10.00 |                           |               |          |
| J-I    | 0 / 1181                  | -28.0                     | -28.0 0.52 (1) | 10.00 |                           |               |          |
| I-M    | 0 / 0                     | -28.0                     | -28.0 0.99 (1) | 10.00 |                           |               |          |
| M-H    | 0 / 0                     | -28.0                     | -28.0 0.99 (1) | 10.00 |                           |               |          |

##### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1  | MAX. | MAX+ | FACE  | DIR  | TYPE  |
|----|--------|------|------|------|-------|------|-------|
| C  | 3-10-8 | -13  | -14  | --   | FRONT | VERT | DEAD  |
| C  | 3-10-8 | -126 | -126 | --   | FRONT | VERT | SNOW  |
| E  | 8-6-8  | -13  | -14  | --   | FRONT | VERT | DEAD  |
| E  | 8-6-8  | -126 | -126 | --   | FRONT | VERT | SNOW  |
| L  | 1-2-8  | -797 | -797 | --   | FRONT | VERT | TOTAL |
| M  | 11-2-8 | -797 | -797 | --   | FRONT | 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 | = | 25.6 | PSF |
|            | DL | = | 3.0  | PSF |
| BOT CH.    | LL | = | 10.5 | PSF |
|            | DL | = | 7.0  | PSF |
| TOTAL LOAD |    | = | 46.1 | PSF |

SPACING = 24.0 IN. C/C

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

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

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

##### THIS DESIGN COMPLIES WITH:

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $\frac{1}{360}$  (0.41")  
CALCULATED VERT. DEFL.(LL) =  $\frac{1}{999}$  (0.11")  
ALLOWABLE DEFL.(TL) =  $\frac{1}{360}$  (0.41")  
CALCULATED VERT. DEFL.(TL) =  $\frac{1}{850}$  (0.18")

CSI: TC=0.27 (E-F:1), BC=0.99 (H-I:1), WB=0.28 (F-I:1), SSI=0.49 (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 = 0.50

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

##### NAIL VALUES

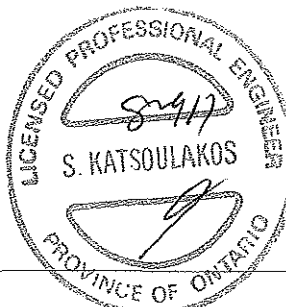
| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) |         |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 618       | 354   | 1667    |
|       | 822       | 2284  | 1656    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.72 (B) (INPUT = 0.90)  
JSI METAL= 0.35 (F) (INPUT = 1.00)

DRWG NO. 7AW43816-17  
STRUCTURAL  
COMPONENT ONLY

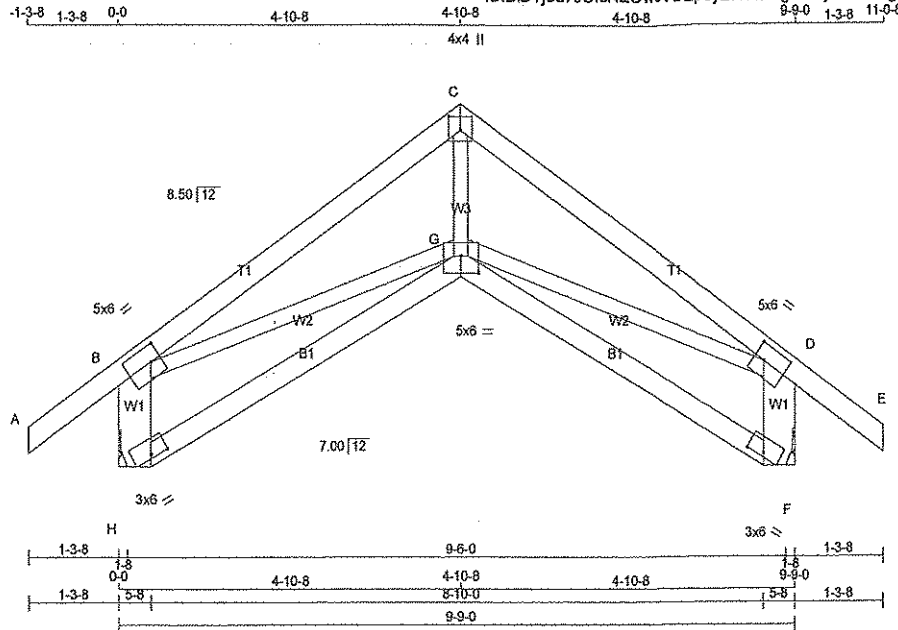


|          |            |          |     |             |       |          |
|----------|------------|----------|-----|-------------|-------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | 43854 | DRWG NO. |
| 282152   | T21        | 3        | 1   | TRUSS DESC. |       |          |

Tamarack Roof Truss, Burlington

Version 8.030 S Oct 5 2016 AMTek Industries, Inc. Tue Aug 29 20:56:00 2017 Page 1

ID:BDYjca7JUicNZOw3VDEpoyz7K-xuogP86qB3V89NgVxdgNCODZvh3tQwt6EiNqQyW5T



Scale = 1:30.7

TOTAL WEIGHT = 3 X 44 = 131 lb

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

DRY: SEASONED LUMBER

PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW-t  | MT20   | 5.0 | 6.0 | 2.50 | 1.75 |
| C  | TTW+p   | MT20   | 4.0 | 4.0 | 2.25 | 2.00 |
| D  | TMVW-t  | MT20   | 5.0 | 6.0 | 2.50 | 1.75 |
| F  | BVM1-i  | MT20   | 3.0 | 6.0 | 0.50 | 3.00 |
| G  | BBWWW-p | MT20   | 5.0 | 6.0 | 2.75 | 3.00 |
| H  | BVM1-i  | MT20   | 3.0 | 6.0 | 0.50 | 3.00 |

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           | HORZ             | DOWN  | HORZ   |
| H  | 663            | 0                | 663   | 0      |
| F  | 663            | 0                | 663   | 0      |

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX/MIN. COMPONENT REACTIONS |         |           |       |         |       |
|-----------|----------|------------------------------|---------|-----------|-------|---------|-------|
| JT        | COMBINED | SNOW                         | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |
| H         | 528      | 320 / 0                      | 102 / 0 | 0 / 0     | 0 / 0 | 106 / 0 | 0 / 0 |
| F         | 528      | 320 / 0                      | 102 / 0 | 0 / 0     | 0 / 0 | 106 / 0 | 0 / 0 |

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                                | WEBS  |                           |                                |          |
|--------|---------------------------|---------------------------|--------------------------------|-------|---------------------------|--------------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC1) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC1) |          |
| FR-TO  |                           | FROM                      | TO                             | FR-TO |                           | FROM                           | TO       |
| A-B    | 0 / 34                    | -84.3                     | -84.3 0.11 (1)                 | 10.00 | G-C                       | 0 / 540                        | 0.12 (1) |
| B-C    | -822 / 0                  | -84.3                     | -84.3 0.27 (1)                 | 6.25  | B-G                       | 0 / 701                        | 0.16 (1) |
| C-D    | -822 / 0                  | -84.3                     | -84.3 0.27 (1)                 | 6.25  | G-D                       | 0 / 701                        | 0.16 (1) |
| D-E    | 0 / 34                    | -84.3                     | -84.3 0.11 (1)                 | 10.00 |                           |                                |          |
| H-B    | -595 / 0                  | 0.0                       | 0.0 0.04 (1)                   | 7.81  |                           |                                |          |
| F-D    | -595 / 0                  | 0.0                       | 0.0 0.04 (1)                   | 7.81  |                           |                                |          |
| H-G    | 0 / 0                     | -28.0                     | -28.0 0.20 (3)                 | 10.00 |                           |                                |          |
| G-F    | 0 / 0                     | -28.0                     | -28.0 0.20 (3)                 | 10.00 |                           |                                |          |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 3.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 46.1 PSF

SPACING = 24.0 IN. C/C

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

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.32")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.05")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.32")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.09")

CSI: TC=0.27 (B-C:1), BC=0.20 (F-G:3), WB=0.16 (B-G:1), SSI=0.13 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

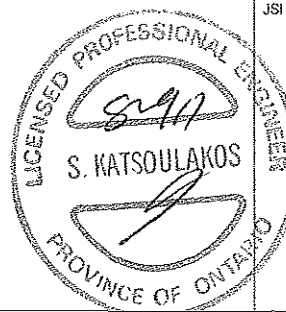
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

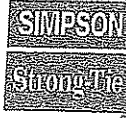
JSI GRIP= 0.75 (C) (INPUT = 0.90 )  
JSI METAL= 0.25 (D) (INPUT = 1.00 )



DWG NO. TAM 43817-17  
STRUCTURAL  
COMPONENT ONLY

# TECHNICAL BULLETIN

## LUS - Double Shear Joist Hangers



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

**MATERIAL:** 18 gauge

**FINISH:** G90 galvanized

### DESIGN:

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

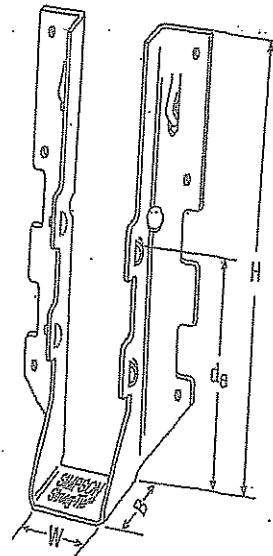
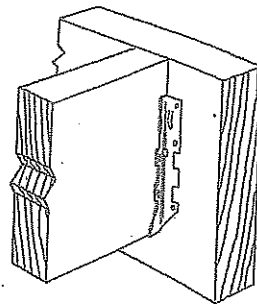
### INSTALLATION:

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

### OPTIONS:

- These hangers cannot be modified.

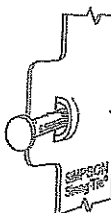
Typical LUS Installation



LUS28

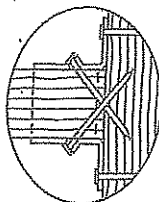
| Model No. | Ga | Dimensions (In) |       |       |                | Fasteners |       | Factored Resistance (lbs)        |                                  |                                  |                                  |
|-----------|----|-----------------|-------|-------|----------------|-----------|-------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |    | W               | H     | B     | d <sub>g</sub> | Face      | Joist | D-Fir-L                          |                                  | S-P-F                            |                                  |
|           |    |                 |       |       |                |           |       | Uplift<br>(K <sub>1</sub> =1.15) | Normal<br>(K <sub>2</sub> =1.00) | Uplift<br>(K <sub>1</sub> =1.15) | Normal<br>(K <sub>2</sub> =1.00) |
| LUS24     | 18 | 1 1/8           | 3 1/4 | 1 1/4 | 1 1/8          | 4-10d     | 2-10d | 710                              | 1630                             | 645                              | 1155                             |
| LUS24-2   | 18 | 3 1/4           | 3 1/4 | 2     | 1 1/8          | 4-16d     | 2-16d | 895                              | 2020                             | 590                              | 1435                             |
| LUS26     | 18 | 1 1/8           | 4 1/4 | 1 1/4 | 3/8            | 4-10d     | 4-10d | 1420                             | 2170                             | 1290                             | 1630                             |
| LUS26-2   | 18 | 3 1/4           | 4 1/4 | 2     | 4              | 4-16d     | 4-16d | 1720                             | 2595                             | 1545                             | 1920                             |
| LUS28-3   | 18 | 4 1/4           | 4 1/8 | 2     | 3/4            | 4-16d     | 4-16d | 1720                             | 2595                             | 1545                             | 2340                             |
| LUS28     | 18 | 1 1/8           | 6 1/4 | 1 1/4 | 3/8            | 6-10d     | 4-10d | 1420                             | 2520                             | 1290                             | 1790                             |
| LUS28-2   | 18 | 3 1/4           | 7     | 2     | 4              | 6-16d     | 4-16d | 1720                             | 3325                             | 1545                             | 2575                             |
| LUS28-3   | 18 | 4 1/4           | 6 1/4 | 2     | 3/4            | 6-16d     | 4-16d | 1720                             | 3325                             | 1545                             | 2375                             |
| LUS210    | 18 | 1 1/8           | 7 1/4 | 1 1/4 | 3/8            | 8-10d     | 4-10d | 1420                             | 2785                             | 1290                             | 2210                             |
| LUS210-2  | 18 | 3 1/4           | 8     | 2     | 6              | 8-16d     | 6-16d | 2580                             | 4500                             | 2320                             | 3165                             |
| LUS210-3  | 18 | 4 1/4           | 8 1/4 | 2     | 5 1/4          | 8-16d     | 6-16d | 2580                             | 3345                             | 2320                             | 2375                             |

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

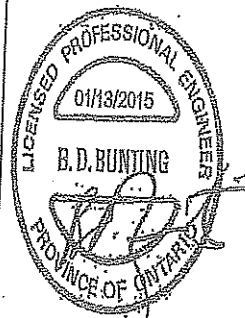


Some Double Shear Nailing prevents tabs breaking off (available on some models).

U.S. Patent  
5,603,599



Double Shear Nailing Top View.

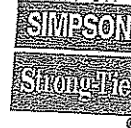


This technical bulletin is effective until December 31, 2016, and reflects information available as of August 1, 2015. This information is updated periodically and should not be relied upon after December 31, 2016. Contact Simpson Strong-Tie for current information and limited warranty or see [www.strongtie.com](http://www.strongtie.com).

800-999-5099

[www.strongtie.com](http://www.strongtie.com)

# HUS/LJS - Double Shear Joist Hangers



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

**MATERIAL:** See table

**FINISH:** G90 galvanized

**DESIGN:**

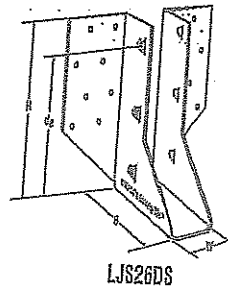
- Factored resistances are in accordance with CSA 086-14
- Uplift resistances have been increased 15%. No further increase is permitted
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

**INSTALLATION:**

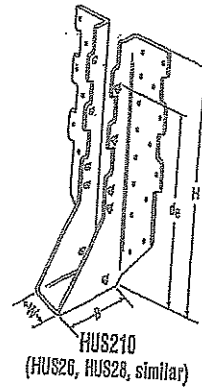
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

**OPTIONS:**

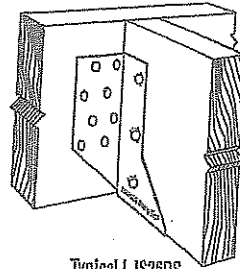
- See current catalogue for options



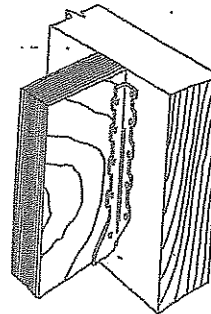
LJS26DS



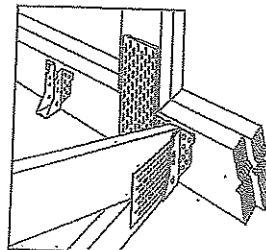
HUS210  
(HUS26, HUS28, similar)



Typical LJS26DS  
Installation



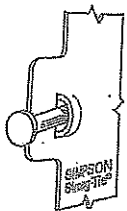
Typical HUS  
Installation



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

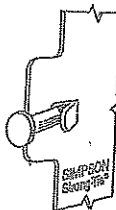
| Model<br>No. | Ga | Dimensions (in) |       |       |                             | Fasteners |        | Factored Resistance (lbs)        |                                  |                                  |                                  |
|--------------|----|-----------------|-------|-------|-----------------------------|-----------|--------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|              |    | W               | H     | B     | d <sub>g</sub> <sup>1</sup> | Face      | Joist  | D-Fir-L                          |                                  | S-P-F                            |                                  |
|              |    |                 |       |       |                             |           |        | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>n</sub> =1.00) | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>n</sub> =1.00) |
| LJS26DS      | 16 | 1 1/8           | 5     | 3 1/2 | 4%                          | 16-16d    | 8-16d  | 2055                             | 4265                             | 1460                             | 4115                             |
| HUS26        | 16 | 1%              | 5%    | 3     | 3 1/8                       | 14-16d    | 8-16d  | 2705                             | 4940                             | 2065                             | 3875                             |
| HUS28        | 16 | 1%              | 7 1/2 | 3     | 8 1/2                       | 22-16d    | 8-16d  | 3605                             | 5365                             | 2875                             | 4345                             |
| HUS210       | 16 | 1%              | 9 1/2 | 3     | 7 3/4                       | 30-16d    | 10-16d | 4605                             | 5795                             | 4010                             | 4740                             |
| HUS1.61/10   | 16 | 1 1/8           | 9     | 3     | 8                           | 30-16d    | 10-16d | 4605                             | 6450                             | 4010                             | 5200                             |

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

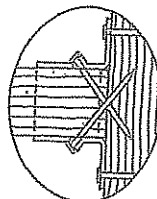


Double  
Shear  
Nailing  
prevents  
tabs  
breaking  
off  
(available  
on  
some  
models).

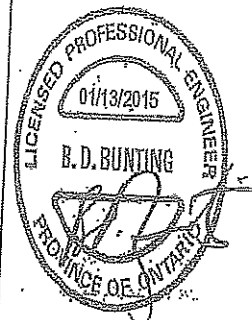
U.S. Patent  
5,603,560



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



Double  
Shear  
Nailing  
Top View.



U.S.  
STATES  
DESIGN

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800-999-5099

www.simpsonstrongtie.com

# HGUS - Double Shear Joist Hangers



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

**MATERIAL:** 12 gauge

**FINISH:** G90 galvanized

**DESIGN:**

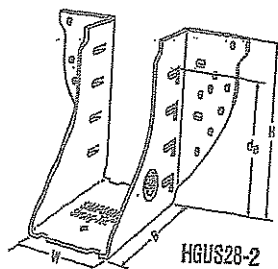
- Factored resistances are in accordance with CSA 086-14
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

**INSTALLATION:**

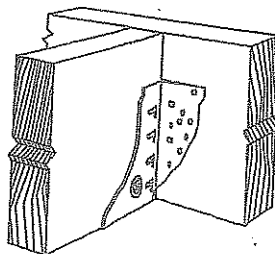
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

**OPTIONS:**

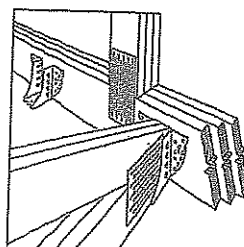
- See current catalogue for options.



HGUS28-2



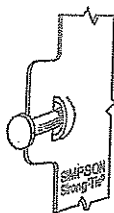
Typical HGUS Installation



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

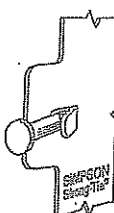
| Model No. | Ga | Dimensions (in) |        |   |                             |  | Fasteners |        | Factored Resistance (lbs)        |                                  |                                  |                                  |
|-----------|----|-----------------|--------|---|-----------------------------|--|-----------|--------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |    | W               | H      | B | d <sub>1</sub> <sup>1</sup> |  | Face      | Joist  | D.Fir-L                          |                                  | S-P-F                            |                                  |
|           |    |                 |        |   |                             |  |           |        | Uplift<br>(K <sub>1</sub> =1.15) | Normal<br>(K <sub>2</sub> =1.00) | Uplift<br>(K <sub>1</sub> =1.15) | Normal<br>(K <sub>2</sub> =1.00) |
| HGUS28    | 12 | 1 1/2           | 5 1/2  | 5 | 4 1/2                       |  | 20-16d    | 8-16d  | 2685                             | 6625                             | 2685                             | 6700                             |
| HGUS28-2  | 12 | 3 1/2           | 5 1/2  | 4 | 4 1/2                       |  | 20-16d    | 8-16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS28-3  | 12 | 4 1/2           | 5 1/2  | 4 | 4 1/2                       |  | 20-16d    | 8-16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS28-4  | 12 | 6 1/2           | 5 1/2  | 4 | 4 1/2                       |  | 20-16d    | 8-16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS28    | 12 | 1 1/2           | 7 1/2  | 5 | 6 1/2                       |  | 36-16d    | 12-16d | 3310                             | 7675                             | 3100                             | 6900                             |
| HGUS28-2  | 12 | 3 1/2           | 7 1/2  | 4 | 6 1/2                       |  | 36-16d    | 12-16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-3  | 12 | 4 1/2           | 7 1/2  | 4 | 6 1/2                       |  | 36-16d    | 12-16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-4  | 12 | 6 1/2           | 7 1/2  | 4 | 6 1/2                       |  | 36-16d    | 12-16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS210-2 | 12 | 3 1/2           | 9 1/2  | 4 | 8 1/2                       |  | 46-16d    | 16-16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS210-3 | 12 | 4 1/2           | 9 1/2  | 4 | 8 1/2                       |  | 46-16d    | 16-16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS210-4 | 12 | 6 1/2           | 9 1/2  | 4 | 8 1/2                       |  | 46-16d    | 16-16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS212-4 | 12 | 8 1/2           | 10 1/2 | 4 | 10 1/2                      |  | 58-16d    | 20-16d | 7640                             | 14995                            | 6425                             | 10845                            |
| HGUS214-4 | 12 | 6 1/2           | 12 1/2 | 4 | 11 1/2                      |  | 66-16d    | 22-16d | 10130                            | 16400                            | 7195                             | 11645                            |

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

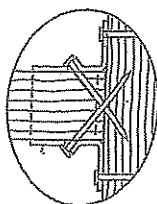


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

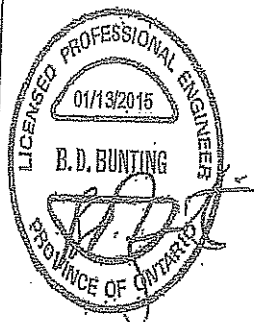
U.S. Patent  
5,603,580



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



Double Shear Nailing Top View.



MADE IN THE U.S.A.

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

# MICRO CITY ENGINEERING SERVICES INC.

TEL: (519) 287-2242

## LUMBER SPECIFICATION

TOP CHORD : 2x4 SPF#2

BOTTOM CHORD : 2x4 SPF#2

WEBS : 2x3 SPF#2

UNLESS OTHERWISE SHOWN

## DESIGN LOAD:

TOP CHORD LIVE LOAD : 39.4 P.S.F.

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

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

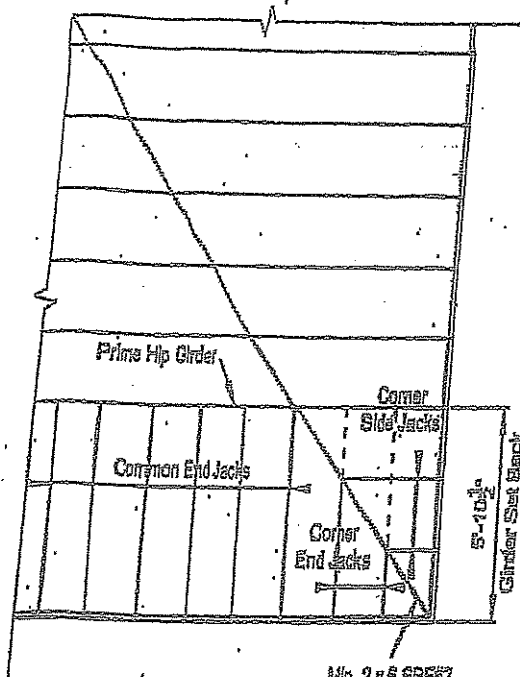
BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

TOTAL LOAD

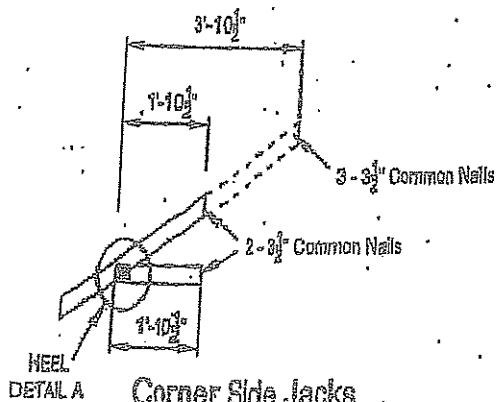
59.9 P.S.F.

DWG NO T11-2495.14

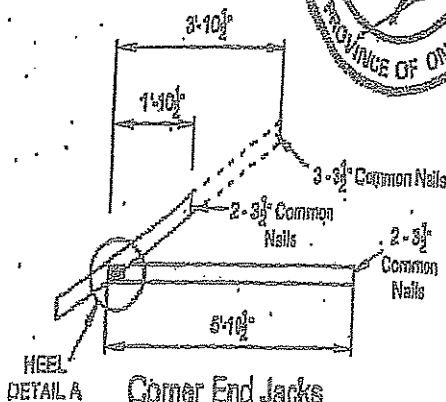
STRUCTURAL  
COMPONENT ONLY



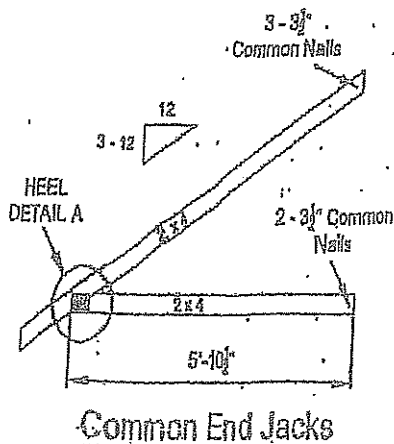
45° Hip End



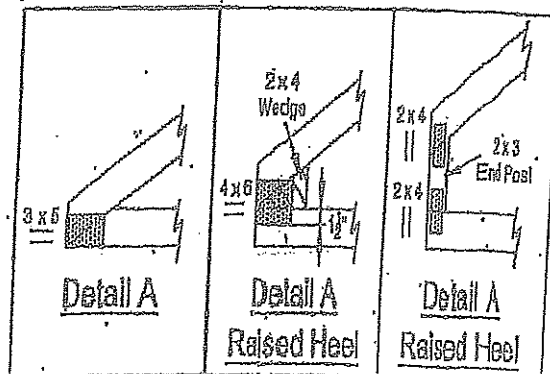
Corner Side Jacks



Corner End Jacks



Common End Jacks



**MICRO CITY**

**ENGINEERING SERVICES INC.**

TEL: (519) 287-2242

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

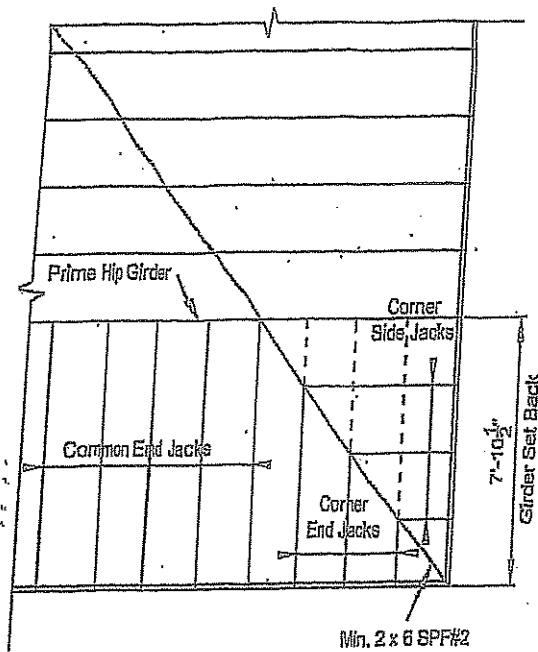
**LUMBER SPECIFICATION**

TOP CHORD : 2x4 SPF#2  
 BOTTOM CHORD : 2x4 SPF#2  
 WEBS : 2x3 SPF#2  
 UNLESS OTHERWISE SHOWN

**DESIGN LOAD:**

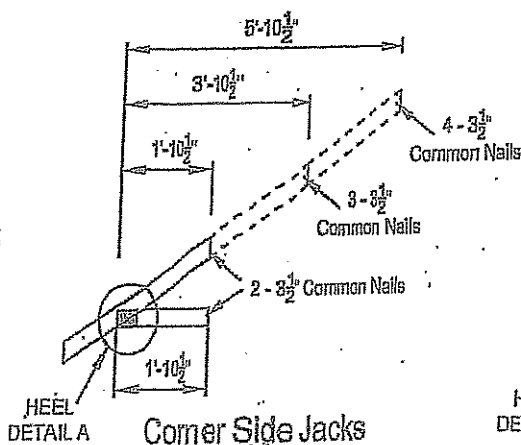
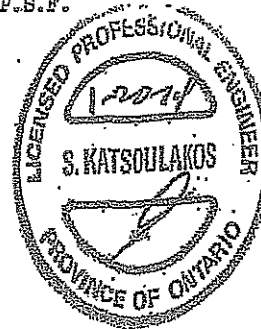
TOP CHORD LIVE LOAD : 34.8 P.S.F.  
 TOP CHORD DEAD LOAD : 3.0 P.S.F.  
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.  
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

TOTAL LOAD : 44.8 P.S.F.

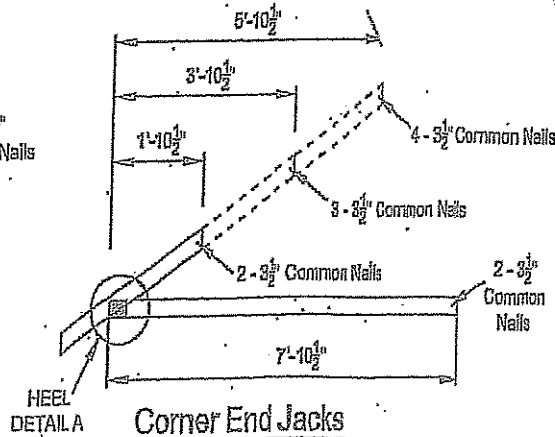


**45° Hip End**

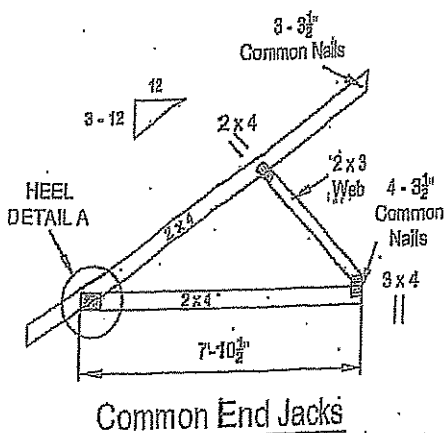
DWG NO T&M 3503 14  
 STRUCTURAL  
 COMPONENT - ONLY



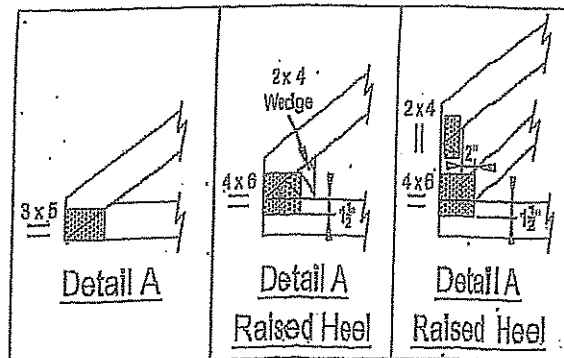
**Corner Side Jacks**



**Corner End Jacks**



**Common End Jacks**



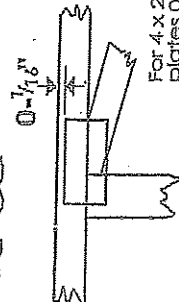
NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (LIMIT STATES DESIGN)

(TO BE INCLUDED AND USED AS PART OF A FULL TRUSS ENGINEERING PACKAGE)

# Symbols

## PLATE LOCATION AND ORIENTATION

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 0-1/4\"/>

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

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

## PLATE SIZE

4 x 4

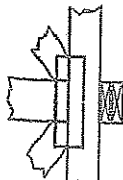
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



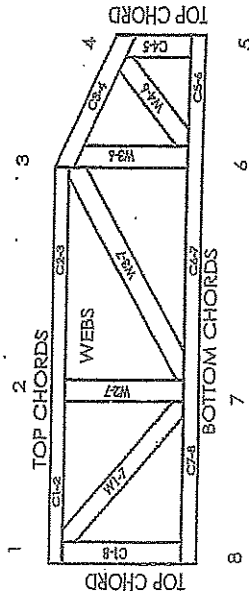
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

## Industry Standards:

TP/C: Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses  
D38-89: Design Standard for Bracing.  
BCS: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plates Connected Wood Trusses.

## Numbering System

6-4-8 dimensions shown in ft-in-sixteenths or mm (drawings not to scale)



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

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

## PRODUCT CODE APPROVALS

CCMC Reports:

11996-L, 10319-L, 13270-L, 12691-R

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Mitek Engineering Reference Sheet MII-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 1, I, or Eliminator bracing should be considered.
3. Never exceed the design loadings 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 TFC.
7. Design assumes trusses will be suitably protected from the environment in accord with TFC.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with TFC Quality Criteria.

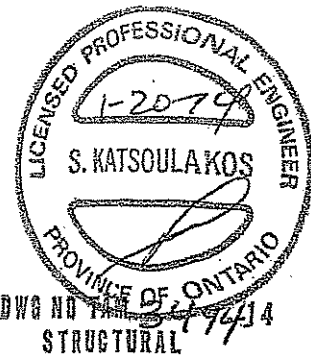
Micro City Engineering Services Inc.  
(BCIN: 26064; FIRM BCIN: 29991)

RR #1, Po Box 61

Glencoe, Ontario

NOL 1M0

(519) 287 - 2242; Fax: (519) 287 - 5750 (Call)



### Responsibilities:

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

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

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

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

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

### SPECIFICATIONS:

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

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

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

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

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

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

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

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

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