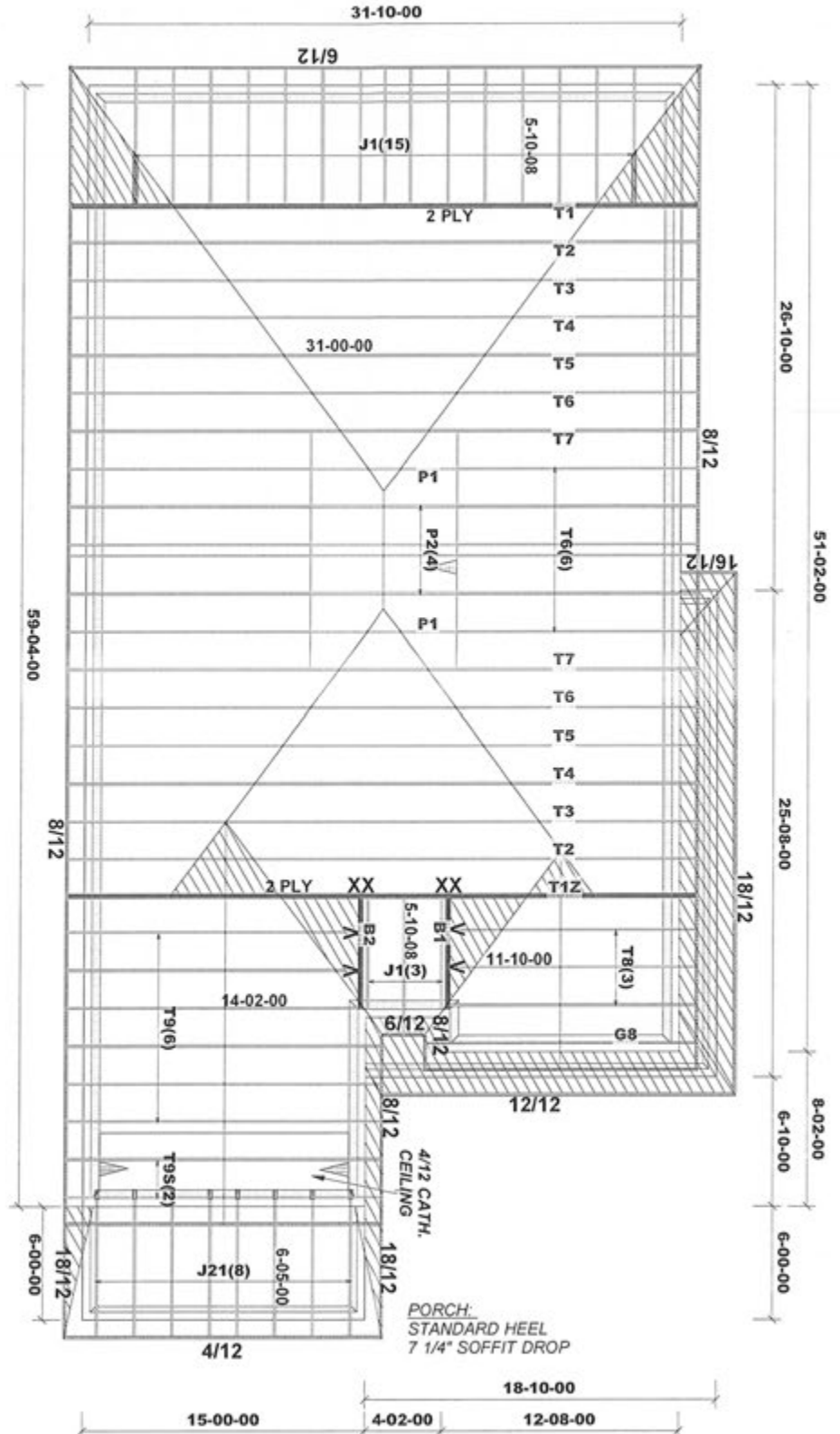


THIS TRUSS DESIGNED FOR FLAT SOLAR PANEL ARRAY TO BE INSTALLED ALONG TOP CHORDS HAVING A COMBINED DEAD LOAD (SOLAR PANEL ARRAY) NOT EXCEEDING 5.0 PSF AND IN ACCORDANCE WITH CURRENT EDITION OF TPIC. THIS IS A LOAD READY DECLARATION ONLY AND NOT AN INSTALLATION READY DECLARATION. A SEPARATE INSTALLATION DETAIL IS REQUIRED BY LICENSED PROFESSIONAL ENGINEER ONCE A SOLAR ARRAY LAYOUT IS ESTABLISHED, AND AVAILABLE ON A ROOF BY ROOF BASIS.



ASPHALT SHINGLES  
12" FINISHED O.H.  
5" CLADDING ALLOWANCE  
2x6 EXTERIOR WALLS  
2x6 FASCIA BOARD  
HEEL: R.T.M.C. [2]

T - 180020

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

DESIGN CONFORMS WITH OBC 2012 OCCUPANCY: RESIDENTIAL | PART: 9 GROUND SNOW LOAD  $S_s=48$ , 1psf  $S_r=8$ , 4psf DESIGN LOADS  
TCOL (8psf)  
BCLL (10.5psf)  
BCDL (7psf)

HARDWARE:  
LUS24 - (O)  
LUS26DS - (V)  
LUS26-2 - (W)  
HGUS26-2 - (XX)

DENOTES:  
CONVENTIONAL FRAMING

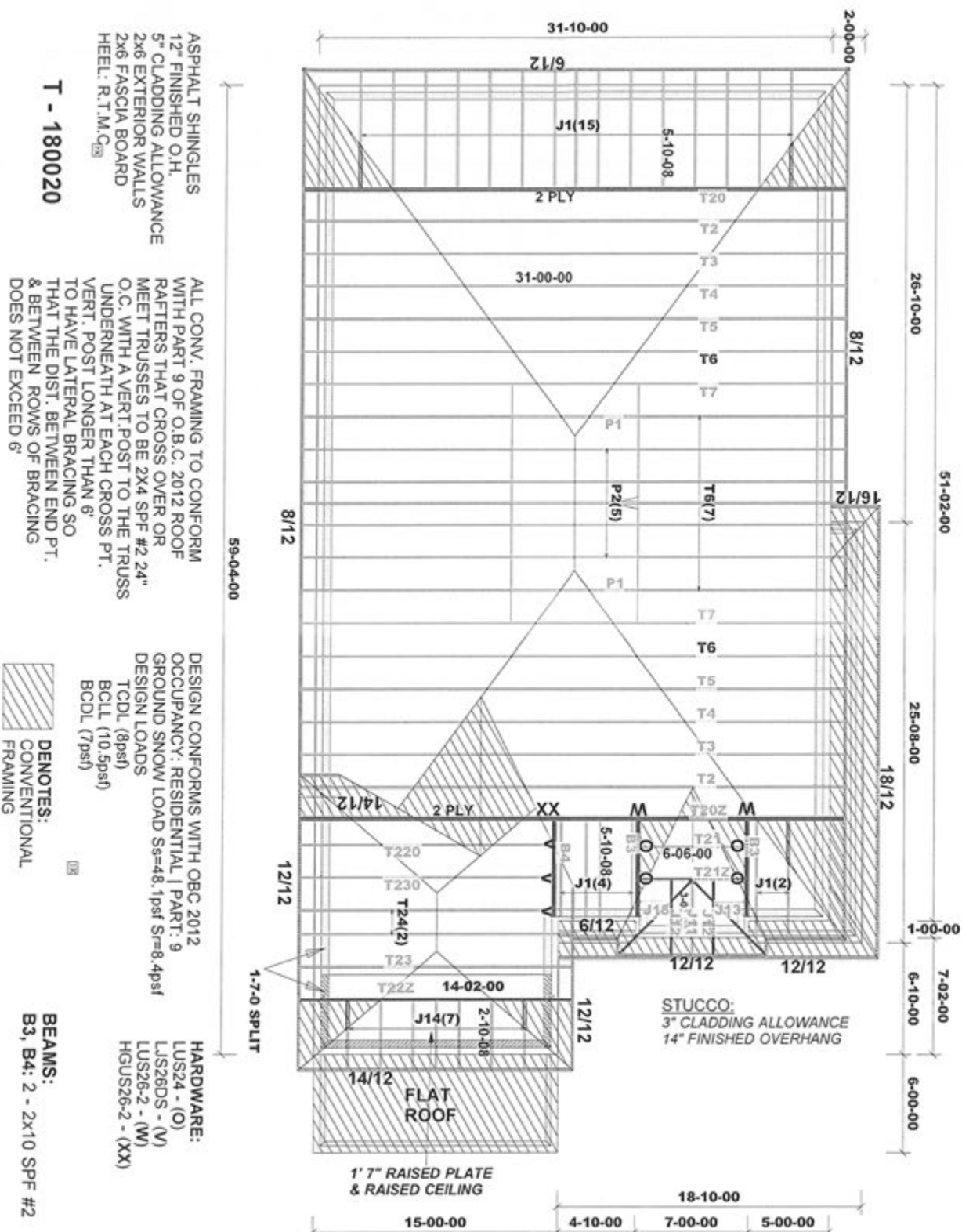
BEAMS:  
B1, B2: 2 - 2x10 SPF #2

M11,355

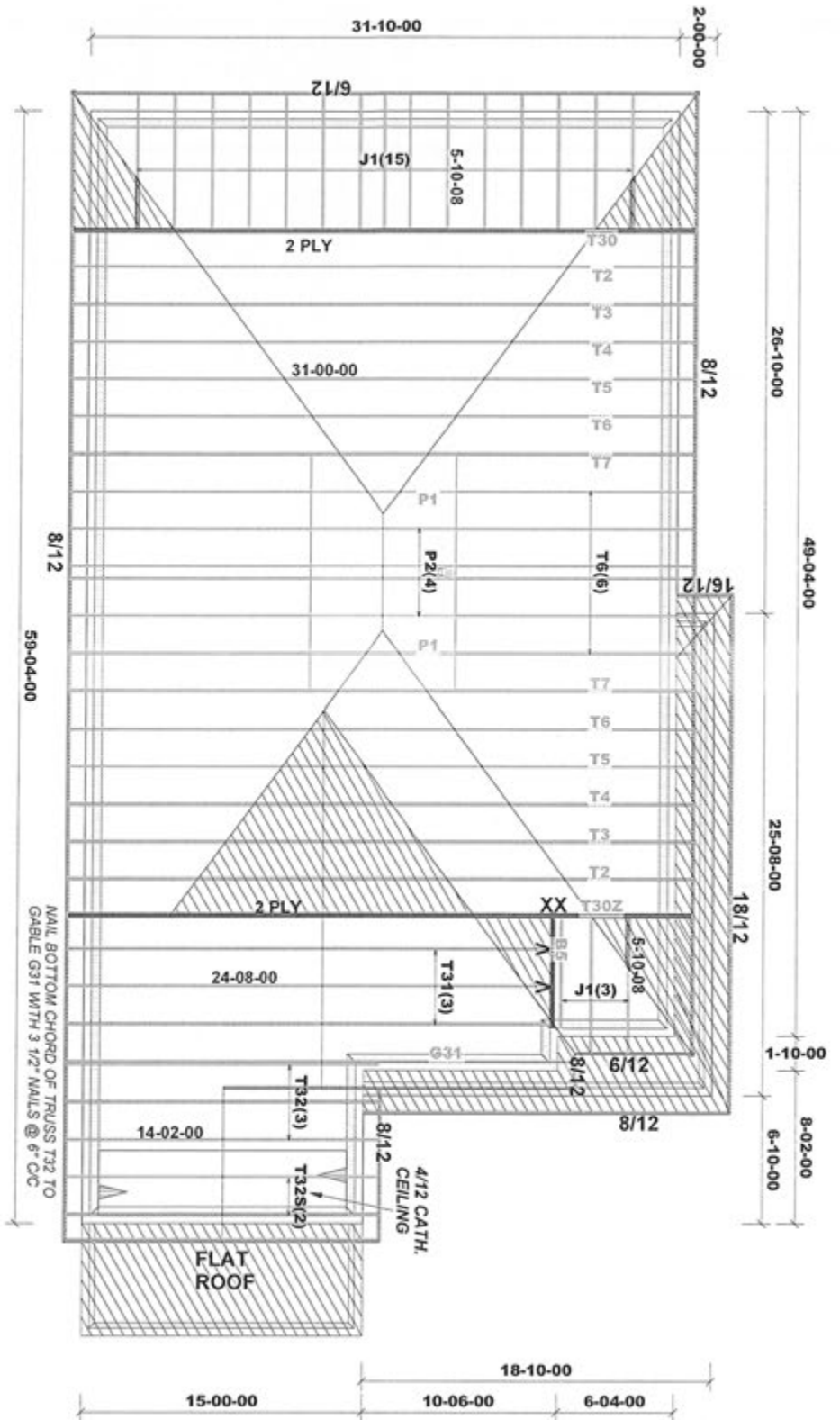
|                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                 |                                                                  |                                              |
|----------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------|
| TAMARACK<br>A DIVISION OF TPI                                                                      |  | Job Track: <b>45246</b><br>Layout ID: <b>290372</b><br>Plan Log: <b>96216</b>                                                                                                                                                                                                                                                                   | Builder / Location:<br><b>GREENPARK HOMES / EAST GWILLIMBURY</b> | Model / Elevation:<br><b>PINEBROOK 3 / 1</b> |
| Project: <b>SECONDO VALES ESTATES INC.</b><br>Date: <b>1/18/2018</b><br>Designer: <b>colin.v.g</b> |  | THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC. SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.<br>Mark ver. 7.5.0 |                                                                  |                                              |



Nettek ver 7.5.0



THIS TRUSS DESIGNED FOR FLAT SOLAR PANEL ARRAY TO BE INSTALLED ALONG TOP CHORDS HAVING A COMBINED DEAD LOAD (SOLAR PANEL ARRAY) NOT EXCEEDING 5.0 PSF AND IN ACCORDANCE WITH CURRENT EDITION OF TPIC. THIS IS A LOAD READY DECLARATION ONLY AND NOT AN INSTALLATION READY DECLARATION. A SEPARATE INSTALLATION DETAIL IS REQUIRED BY LICENSED PROFESSIONAL ENGINEER ONCE A SOLAR ARRAY LAYOUT IS ESTABLISHED, AND AVAILABLE ON A ROOF BY ROOF BASIS.



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

T - 180020

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

DESIGN CONFORMS WITH OBC 2012 OCCUPANCY: RESIDENTIAL I PART: 9 GROUND SNOW LOAD  $S_s=48.1$  psf  $S_r=8.4$  psf DESIGN LOADS  
TCDL (8psf)  
BCLL (10.5psf)  
BCDL (7psf)

HARDWARE:  
LUS24 - (O)  
LUS26DS - (V)  
LUS26-2 - (W)  
HGUS26-2 - (XX)

DENOTES:  
CONVENTIONAL  
FRAMING

BEAMS:  
B5: 2 - 2x10 SPF #2

M11,355



Job Track: 45246  
Layout ID: 290374  
Plan Log: 96216

Builder / Location:

GREENPARK HOMES / EAST GWILLIMBURY

Model / Elevation:

PINEBROOK 3 / 3

Project: SECONDO VALES ESTATES INC.

Date: 1/18/2018 Designer: colinujg

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

Mikek ver 7.5.0



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 01/15/18 |
| SALES REP | Mario    |

JOB TRACK: 45246      LAYOUT ID: 290372      LOCATION: EAST GWILLIMBURY  
 BUILDER: GREENPARK / SECONDO VALES ESTA      SUB-BUILDER:  
 MODEL: PINEBROOK 3      ELEVATION: 1

## ROOF TRUSSES

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

| PROFILE | QTY<br>PLY | MARK<br>TYPE      | PITCH<br>TC<br>BC | SPAN     | TRUSS<br>HEIGHT | LUMBER |       | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.      | BUNDLE #<br>STACK # | LOAD BY:<br>REMARKS |
|---------|------------|-------------------|-------------------|----------|-----------------|--------|-------|---------------------------|------------------------------|-------------------|---------------------|---------------------|
|         | 1          | T1<br>HIP GIRDER  | 8.00              | 31-00-00 | 04-01-04        | 2 X 4  | 2 X 6 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 302.22            |                     |                     |
|         | 2 Ply      |                   | 0.00              |          |                 |        |       |                           |                              | 189.34            |                     |                     |
|         | 1          | T1Z<br>HIP GIRDER | 8.00              | 31-00-00 | 04-01-04        | 2 X 4  | 2 X 6 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 302.22            |                     |                     |
|         | 2 Ply      |                   | 0.00              |          |                 |        |       |                           |                              | 189.34            |                     |                     |
|         | 2          | T2<br>HIP         | 8.00<br>0.00      | 31-00-00 | 05-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 262.42<br>165.00  |                     |                     |
|         | 2          | T3<br>HIP         | 8.00<br>0.00      | 31-00-00 | 06-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 263.78<br>165.34  |                     |                     |
|         | 2          | T4<br>HIP         | 8.00<br>0.00      | 31-00-00 | 07-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 259.64<br>163.66  |                     |                     |
|         | 2          | T5<br>HIP         | 8.00<br>0.00      | 31-00-00 | 08-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 279.92<br>175.34  |                     |                     |
|         | 8          | T6<br>HIP         | 8.00<br>0.00      | 31-00-00 | 09-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 1119.52<br>698.72 |                     |                     |
|         | 2          | T7<br>HIP         | 8.00<br>0.00      | 31-00-00 | 10-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 297.40<br>185.34  |                     |                     |
|         | 3          | T8<br>COMMON      | 8.00<br>0.00      | 11-10-00 | 05-04-02        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 157.11<br>95.49   |                     |                     |
|         | 1          | G8<br>COMMON      | 8.00<br>0.00      | 11-10-00 | 05-04-02        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 51.66<br>32.83    |                     |                     |
|         | 6          | T9<br>COMMON      | 8.00<br>0.00      | 14-02-00 | 06-01-08        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 366.78<br>234.00  |                     |                     |
|         | 2          | T9S<br>SCISSOR    | 8.00<br>4.00      | 14-02-00 | 06-01-08        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 120.34<br>80.66   |                     |                     |
|         | 2          | P1<br>PIGGYBACK   | 8.00<br>0.00      | 06-04-13 | 01-10-08        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 00-04-07<br>00-04-07         | 42.74<br>28.66    |                     |                     |
|         | 4          | P2<br>PIGGYBACK   | 8.00<br>0.00      | 06-04-13 | 02-06-01        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 00-04-07<br>00-04-07         | 78.52<br>49.32    |                     |                     |
|         | 18         | J1<br>JACK-OPEN   | 6.00<br>0.00      | 05-10-08 | 04-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-02-00<br>04-01-04         | 302.22<br>192.06  |                     |                     |
|         | 8          | J21<br>JACK-OPEN  | 4.00<br>0.00      | 06-05-00 | 02-05-10        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 00-03-15<br>02-05-10         | 150.80<br>97.36   |                     |                     |

TOTAL # TRUSS= 66.00

TOTAL BFT OF ALL TRUSSES=

2742.46 BFT. TOTAL WEIGHT OF ALL TRUSSES= 4357.29 LBS.

## HARDWARE

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



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 01/15/18 |
| SALES REP | Mario    |

|                                         |                   |                            |
|-----------------------------------------|-------------------|----------------------------|
| JOB TRACK: 45246                        | LAYOUT ID: 290372 | LOCATION: EAST GWILLIMBURY |
| BUILDER: GREENPARK / SECONDO VALES ESTA | SUB-BUILDER:      |                            |
| MODEL: PINEBROOK 3                      | ELEVATION: 1      |                            |

## HARDWARE

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

TOTAL # ITEMS= 6.00



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 01/15/18 |
| SALES REP | Mario    |

JOB TRACK: 45246      LAYOUT ID: 290373      LOCATION: EAST GWILLIMBURY  
 BUILDER: GREENPARK / SECONDO VALES ESTA      SUB-BUILDER:  
 MODEL: PINEBROOK 3      ELEVATION: 2

## ROOF TRUSSES

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

| PROFILE | QTY<br>PLY | MARK<br>TYPE       | PITCH<br>TC<br>BC | SPAN     | TRUSS<br>HEIGHT | LUMBER |       | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.      | BUNDLE #<br>STACK # | LOAD BY:<br>REMARKS |
|---------|------------|--------------------|-------------------|----------|-----------------|--------|-------|---------------------------|------------------------------|-------------------|---------------------|---------------------|
|         |            |                    |                   |          |                 | TOP    | BOT   |                           |                              |                   |                     |                     |
|         | 2          | T2<br>HIP          | 8.00<br>0.00      | 31-00-00 | 05-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 262.42<br>165.00  |                     |                     |
|         | 2          | T3<br>HIP          | 8.00<br>0.00      | 31-00-00 | 06-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 263.78<br>165.34  |                     |                     |
|         | 2          | T4<br>HIP          | 8.00<br>0.00      | 31-00-00 | 07-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 259.64<br>163.66  |                     |                     |
|         | 2          | T5<br>HIP          | 8.00<br>0.00      | 31-00-00 | 08-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 279.92<br>175.34  |                     |                     |
|         | 9          | T6<br>HIP          | 8.00<br>0.00      | 31-00-00 | 09-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 1259.46<br>786.06 |                     |                     |
|         | 2          | T7<br>HIP          | 8.00<br>0.00      | 31-00-00 | 10-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 297.40<br>185.34  |                     |                     |
|         | 1<br>2 Ply | T20<br>HIP GIRDER  | 8.00<br>0.00      | 31-00-00 | 04-01-04        | 2 X 4  | 2 X 6 | 01-03-08<br>01-05-00      | 01-04-13<br>01-04-13         | 301.80<br>187.34  |                     |                     |
|         | 1<br>2 Ply | T20Z<br>HIP GIRDER | 8.00<br>0.00      | 31-00-00 | 04-01-04        | 2 X 4  | 2 X 6 | 01-03-08<br>01-05-00      | 01-04-13<br>01-04-13         | 301.80<br>187.34  |                     |                     |
|         | 1          | T21<br>COMMON      | 12.00<br>0.00     | 06-06-00 | 05-01-08        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 01-10-08<br>01-10-08         | 30.72<br>20.50    |                     |                     |
|         | 1          | T21Z<br>COMMON     | 12.00<br>0.00     | 06-06-00 | 05-01-08        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 01-10-08<br>01-10-08         | 30.72<br>20.50    |                     |                     |
|         | 1          | T220<br>HIP        | 12.00<br>0.00     | 14-02-00 | 07-00-09        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 03-05-08<br>03-05-08         | 77.13<br>50.67    |                     |                     |
|         | 1          | T22Z<br>HIP GIRDER | 12.00<br>0.00     | 14-02-00 | 05-05-09        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-10-08<br>01-10-08         | 67.27<br>43.00    |                     |                     |
|         | 1          | T23<br>HIP         | 12.00<br>0.00     | 14-02-00 | 07-09-09        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 01-10-08<br>01-10-08         | 80.34<br>52.33    |                     |                     |
|         | 1          | T230<br>HIP        | 12.00<br>0.00     | 14-02-00 | 09-04-09        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 03-05-08<br>03-05-08         | 92.30<br>59.50    |                     |                     |
|         | 2          | T24<br>COMMON      | 12.00<br>0.00     | 14-02-00 | 10-06-08        | 2 X 4  | 2 X 4 | 01-03-08<br>01-03-08      | 03-05-08<br>03-05-08         | 164.40<br>107.34  |                     |                     |
|         | 2          | P1<br>PIGGYBACK    | 8.00<br>0.00      | 06-04-13 | 01-10-08        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 00-04-07<br>00-04-07         | 42.74<br>28.66    |                     |                     |
|         | 5          | P2<br>PIGGYBACK    | 8.00<br>0.00      | 06-04-13 | 02-06-01        | 2 X 4  | 2 X 4 | 00-00-00<br>00-00-00      | 00-04-07<br>00-04-07         | 98.15<br>61.65    |                     |                     |
|         | 21         | J1<br>JACK-OPEN    | 6.00<br>0.00      | 05-10-08 | 04-01-04        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-02-00<br>04-01-04         | 352.59<br>224.07  |                     |                     |



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 01/15/18 |
| SALES REP | Mario    |

JOB TRACK: 45246      LAYOUT ID: 290373      LOCATION: EAST GWILLIMBURY  
 BUILDER: GREENPARK / SECONDO VALES ESTA      SUB-BUILDER:  
 MODEL: PINEBROOK 3      ELEVATION: 2

### ROOF TRUSSES

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

| PROFILE                                                                          | QTY<br>PLY | MARK<br>TYPE     | PITCH<br>TC<br>BC | SPAN     | TRUSS<br>HEIGHT | LUMBER |       | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.    | BUNDLE #<br>STACK # | LOAD BY:<br>REMARKS |
|----------------------------------------------------------------------------------|------------|------------------|-------------------|----------|-----------------|--------|-------|---------------------------|------------------------------|-----------------|---------------------|---------------------|
|                                                                                  |            |                  |                   |          |                 | TOP    | BOT   |                           |                              |                 |                     |                     |
|  | 1          | J11<br>JACK-OPEN | 12.00<br>0.00     | 03-03-00 | 05-01-08        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 01-10-08<br>05-01-08         | 14.66<br>9.67   |                     |                     |
|  | 2          | J12<br>JACK-OPEN | 12.00<br>0.00     | 03-03-00 | 03-07-15        | 2 X 4  | 2 X 4 | 01-03-08<br>-01-05-09     | 01-10-08<br>00-03-08         | 21.34<br>14.66  |                     |                     |
|  | 2          | J13<br>JACK-OPEN | 12.00<br>0.00     | 01-10-08 | 03-07-15        | 2 X 4  | 2 X 4 | 01-03-08<br>-00-01-01     | 01-10-08<br>00-03-08         | 18.20<br>12.00  |                     |                     |
|  | 7          | J14<br>JACK-OPEN | 14.00<br>0.00     | 02-10-08 | 05-05-09        | 2 X 4  | 2 X 4 | 01-03-08<br>00-00-00      | 02-01-05<br>05-05-09         | 102.90<br>66.50 |                     |                     |

TOTAL # TRUSS= 71.00

TOTAL BFT OF ALL TRUSSES=

2786.47 BFT. TOTAL WEIGHT OF ALL TRUSSES= 4419.68 LBS.

### HARDWARE

| QTY | ITEM TYPE | MODEL    | LENGTH<br>FT-IN-16 |
|-----|-----------|----------|--------------------|
| 1   | Hangers   | HGUS26-2 |                    |
| 3   | Hangers   | LJS26DS  |                    |
| 4   | Hangers   | LUS24    |                    |
| 2   | Hangers   | LUS26-2  |                    |

TOTAL # ITEMS= 10.00



## Delivery Shiplist

|           |          |
|-----------|----------|
| DATE      | 01/15/18 |
| SALES REP | Mario    |

JOB TRACK: 45246      LAYOUT ID: 290374      LOCATION: EAST GWILLIMBURY  
 BUILDER: GREENPARK / SECONDO VALES ESTA      SUB-BUILDER:  
 MODEL: PINEBROOK 3      ELEVATION: 3

## ROOF TRUSSES

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

| PROFILE | QTY<br>PLY | MARK<br>TYPE       | PITCH<br>TC<br>BC | SPAN     | TRUSS<br>HEIGHT | LUMBER<br>TOP BOT | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.      | BUNDLE #<br>STACK # | LOAD BY:<br>REMARKS |
|---------|------------|--------------------|-------------------|----------|-----------------|-------------------|---------------------------|------------------------------|-------------------|---------------------|---------------------|
|         | 2          | T2<br>HIP          | 8.00<br>0.00      | 31-00-00 | 05-01-04        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 262.42<br>165.00  |                     |                     |
|         | 2          | T3<br>HIP          | 8.00<br>0.00      | 31-00-00 | 06-01-04        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 263.78<br>165.34  |                     |                     |
|         | 2          | T4<br>HIP          | 8.00<br>0.00      | 31-00-00 | 07-01-04        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 259.64<br>163.66  |                     |                     |
|         | 2          | T5<br>HIP          | 8.00<br>0.00      | 31-00-00 | 08-01-04        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 279.92<br>175.34  |                     |                     |
|         | 8          | T6<br>HIP          | 8.00<br>0.00      | 31-00-00 | 09-01-04        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 1119.52<br>698.72 |                     |                     |
|         | 2          | T7<br>HIP          | 8.00<br>0.00      | 31-00-00 | 10-01-04        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 297.40<br>185.34  |                     |                     |
|         | 1<br>2 Ply | T30<br>HIP GIRDER  | 8.00<br>0.00      | 31-00-00 | 04-01-04        | 2 X 4 2 X 6       | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 298.94<br>185.34  |                     |                     |
|         | 1<br>2 Ply | T30Z<br>HIP GIRDER | 8.00<br>0.00      | 31-00-00 | 04-01-04        | 2 X 4 2 X 6       | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 298.94<br>185.34  |                     |                     |
|         | 3          | T31<br>COMMON      | 8.00<br>0.00      | 24-08-00 | 09-07-08        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 335.40<br>204.00  |                     |                     |
|         | 1          | G31<br>COMMON      | 8.00<br>0.00      | 24-08-00 | 09-07-08        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 120.07<br>76.17   |                     |                     |
|         | 3          | T32<br>COMMON      | 8.00<br>0.00      | 14-02-00 | 06-01-08        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 183.39<br>117.00  |                     |                     |
|         | 2          | T32S<br>SCISSOR    | 8.00<br>4.00      | 14-02-00 | 06-01-08        | 2 X 4 2 X 4       | 01-03-08<br>01-03-08      | 01-04-13<br>01-04-13         | 120.34<br>80.66   |                     |                     |
|         | 2          | P1<br>PIGGYBACK    | 8.00<br>0.00      | 06-04-13 | 01-10-08        | 2 X 4 2 X 4       | 00-00-00<br>00-00-00      | 00-04-07<br>00-04-07         | 42.74<br>28.66    |                     |                     |
|         | 4          | P2<br>PIGGYBACK    | 8.00<br>0.00      | 06-04-13 | 02-06-01        | 2 X 4 2 X 4       | 00-00-00<br>00-00-00      | 00-04-07<br>00-04-07         | 78.52<br>49.32    |                     |                     |
|         | 18         | J1<br>JACK-OPEN    | 6.00<br>0.00      | 05-10-08 | 04-01-04        | 2 X 4 2 X 4       | 01-03-08<br>00-00-00      | 01-02-00<br>04-01-04         | 302.22<br>192.06  |                     |                     |

TOTAL # TRUSS= 55.00

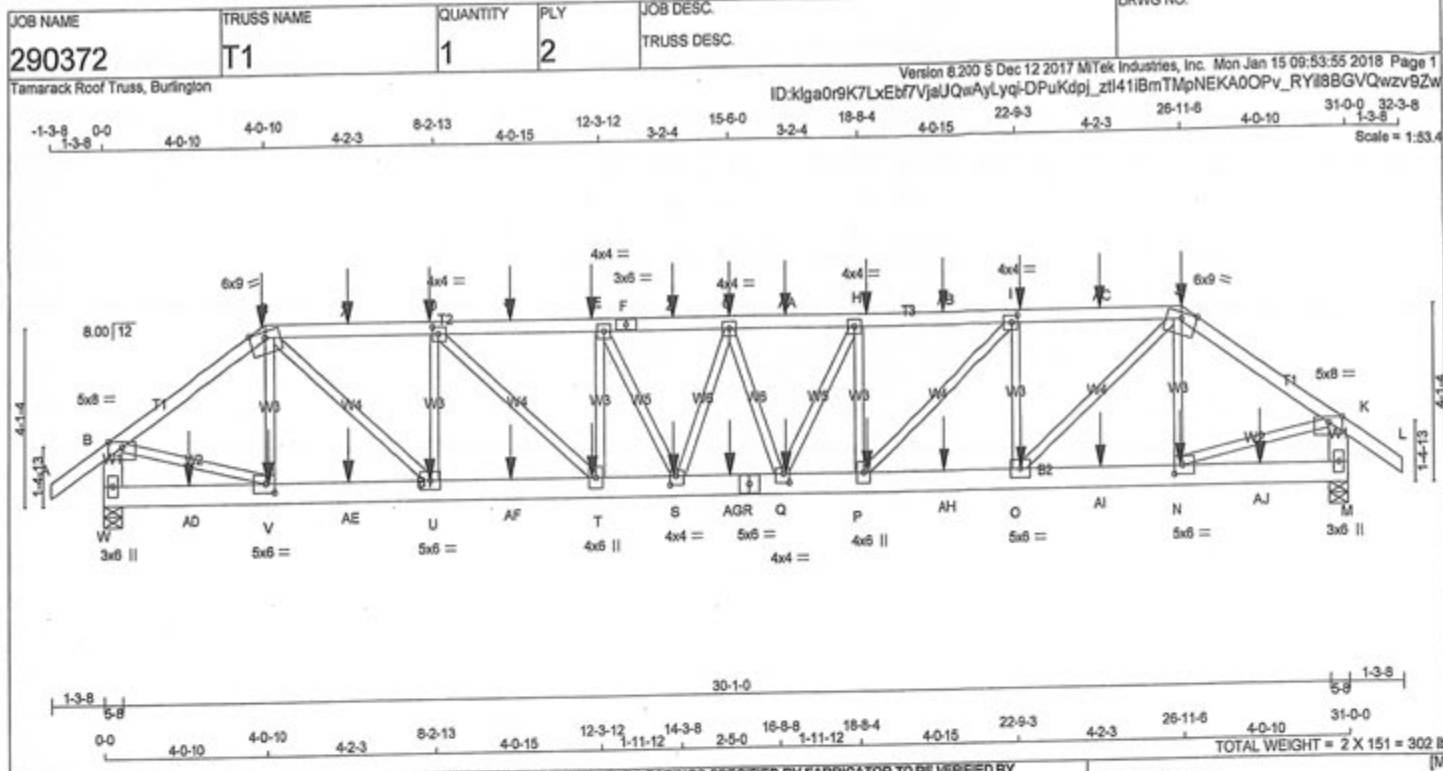
TOTAL BFT OF ALL TRUSSES=

2671.95 BFT. TOTAL WEIGHT OF ALL TRUSSES= 4263.24 LBS.

## HARDWARE

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

TOTAL # ITEMS= 3.00



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

| CHORDS          | SIZE | LUMBER | DESCR. |
|-----------------|------|--------|--------|
| A - C           | 2x4  | DRY    | No.2   |
| C - F           | 2x4  | DRY    | No.2   |
| F - J           | 2x4  | DRY    | No.2   |
| J - L           | 2x4  | DRY    | No.2   |
| W - B           | 2x6  | DRY    | No.2   |
| M - K           | 2x6  | DRY    | No.2   |
| W - R           | 2x6  | DRY    | No.2   |
| R - M           | 2x6  | DRY    | No.2   |
| ALL WEBS EXCEPT | 2x3  | DRY    | No.2   |

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                            | SURFACE SPACING (IN) | LOAD (PLF)  |
|-----------------------------------------|----------------------|-------------|
| TOP CHORDS: (0.122"x3") SPIRAL NAILS    |                      |             |
| A-C                                     | 12                   | SIDE(61.0)  |
| C-F                                     | 12                   | SIDE(61.0)  |
| F-J                                     | 12                   | SIDE(61.0)  |
| J-L                                     | 12                   | SIDE(61.0)  |
| W-B                                     | 2                    | TOP         |
| M-K                                     | 2                    | TOP         |
| BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS |                      |             |
| W-R                                     | 2                    | SIDE(183.1) |
| R-M                                     | 2                    | SIDE(183.1) |
| WEBS: (0.122"x3") SPIRAL NAILS          |                      |             |
| V-C                                     | 1                    | SIDE(20.3)  |
| N-J                                     | 1                    | SIDE(20.3)  |
| 2x3                                     | 1                    | 6           |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF 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       | TMW-w  | MT20   | 5.0 | 8.0 | Edge |      |
| C       | TTWW-m | MT20   | 6.0 | 9.0 | Edge |      |
| D       | TMW-w  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| E, G, H |        |        |     |     |      |      |
| E       | TMW-w  | MT20   | 4.0 | 4.0 |      |      |
| F       | TS-4   |        | 3.0 | 6.0 |      |      |
| I       | TMW-w  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| J       | TTWW-m | MT20   | 6.0 | 9.0 | Edge |      |
| K       | TMW-w  | MT20   | 5.0 | 8.0 | Edge |      |
| M       | BMV1+p |        | 3.0 | 6.0 |      |      |
| N       | BMW-w  | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| O       | BMW-w  | MT20   | 5.0 | 6.0 |      |      |
| P       | BMW-w  | MT20   | 4.0 | 4.0 | 2.50 | 1.75 |
| Q       | BMW-w  | MT20   | 4.0 | 4.0 | 2.50 | 1.75 |
| R       | BS-4   |        | 5.0 | 6.0 |      |      |
| S       | BMW-w  | MT20   | 4.0 | 4.0 | 2.50 | 1.75 |
| T       | BMW-w  | 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 | REORD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | 4201                    | 4201                            | 5-8       | 5-8       |
| W  | 4201                    | 4201                            | 5-8       | 5-8       |
| M  | 4201                    | 4201                            | 5-8       | 5-8       |

**UNFACTORED REACTIONS**

|    | 1ST CASE | MAX MIN  | COMPONENT REACTIONS |
|----|----------|----------|---------------------|
| JT | COMBINED | SNOW     | LIVE                |
| W  | 3304     | 1934 / 0 | 550 / 0             |
| M  | 3304     | 1934 / 0 | 550 / 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 = 3.03 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                                 | WEBS     |                           |                                 |                                |
|--------|---------------------------|---------------------------|---------------------------------|----------|---------------------------|---------------------------------|--------------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED HORIZ. LOAD (LBS) | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. FACTORED HORIZ. LOAD (LBS) | MAX. FACTORED VERT. LOAD (PLF) |
| FR-TO  |                           |                           |                                 | FR-TO    |                           |                                 |                                |
| A-B    | 0 / 47                    | -124.4                    | -124.4                          | 0.09 (1) | V-C                       | -747 / 0                        | 0.09 (1)                       |
| B-C    | -4910 / 0                 | -124.4                    | -124.4                          | 0.31 (1) | C-U                       | 0 / 3805                        | 0.45 (1)                       |
| C-X    | -6753 / 0                 | -124.4                    | -124.4                          | 0.44 (1) | U-D                       | -2212 / 0                       | 0.28 (1)                       |
| X-D    | -6753 / 0                 | -124.4                    | -124.4                          | 0.44 (1) | D-T                       | 0 / 1935                        | 0.24 (1)                       |
| D-Y    | -8183 / 0                 | -124.4                    | -124.4                          | 0.53 (1) | T-E                       | -1147 / 0                       | 0.15 (1)                       |
| Y-E    | -8183 / 0                 | -124.4                    | -124.4                          | 0.53 (1) | E-S                       | 0 / 497                         | 0.08 (1)                       |
| E-F    | -8408 / 0                 | -124.4                    | -124.4                          | 0.38 (1) | S-G                       | -372 / 0                        | 0.05 (1)                       |
| F-Z    | -8408 / 0                 | -124.4                    | -124.4                          | 0.38 (1) | G-Q                       | -372 / 0                        | 0.05 (1)                       |
| Z-G    | -8408 / 0                 | -124.4                    | -124.4                          | 0.38 (1) | Q-H                       | 0 / 497                         | 0.05 (1)                       |
| G-AA   | -8408 / 0                 | -124.4                    | -124.4                          | 0.38 (1) | H-P                       | -1147 / 0                       | 0.15 (1)                       |
| AA-H   | -8408 / 0                 | -124.4                    | -124.4                          | 0.38 (1) | P-I                       | 0 / 1935                        | 0.24 (1)                       |
| H-AB   | -8183 / 0                 | -124.4                    | -124.4                          | 0.53 (1) | I-O                       | -2212 / 0                       | 0.28 (1)                       |
| AB-I   | -8183 / 0                 | -124.4                    | -124.4                          | 0.53 (1) | O-J                       | 0 / 3805                        | 0.45 (1)                       |
| I-AC   | -6753 / 0                 | -124.4                    | -124.4                          | 0.44 (1) | J-N                       | -747 / 0                        | 0.09 (1)                       |
| AC-J   | -6753 / 0                 | -124.4                    | -124.4                          | 0.44 (1) | N-V                       | 0 / 4194                        | 0.52 (1)                       |
| J-K    | -4910 / 0                 | -124.4                    | -124.4                          | 0.31 (1) | V-K                       | 0 / 4194                        | 0.52 (1)                       |
| K-L    | 0 / 47                    | -124.4                    | -124.4                          | 0.09 (1) |                           |                                 |                                |
| L-W    | -4134 / 0                 | 0.0                       | 0.0                             | 0.15 (1) |                           |                                 |                                |
| W-B    | -4134 / 0                 | 0.0                       | 0.0                             | 0.15 (1) |                           |                                 |                                |
| M-K    | -4134 / 0                 | 0.0                       | 0.0                             | 0.15 (1) |                           |                                 |                                |
| W-AD   | 0 / 0                     | -28.0                     | -28.0                           | 0.05 (3) |                           |                                 |                                |
| AD-V   | 0 / 0                     | -28.0                     | -28.0                           | 0.05 (3) |                           |                                 |                                |
| V-AE   | 0 / 4057                  | -28.0                     | -28.0                           | 0.30 (1) |                           |                                 |                                |
| AE-U   | 0 / 4057                  | -28.0                     | -28.0                           | 0.30 (1) |                           |                                 |                                |
| U-AF   | 0 / 6753                  | -28.0                     | -28.0                           | 0.50 (1) |                           |                                 |                                |
| AF-T   | 0 / 6753                  | -28.0                     | -28.0                           | 0.50 (1) |                           |                                 |                                |
| T-S    | 0 / 8183                  | -28.0                     | -28.0                           | 0.59 (1) |                           |                                 |                                |
| S-AG   | 0 / 8530                  | -28.0                     | -28.0                           | 0.63 (1) |                           |                                 |                                |
| AG-R   | 0 / 8530                  | -28.0                     | -28.0                           | 0.63 (1) |                           |                                 |                                |
| R-Q    | 0 / 8183                  | -28.0                     | -28.0                           | 0.59 (1) |                           |                                 |                                |
| Q-P    | 0 / 6753                  | -28.0                     | -28.0                           | 0.50 (1) |                           |                                 |                                |
| P-AH   | 0 / 6753                  | -28.0                     | -28.0                           | 0.50 (1) |                           |                                 |                                |
| AH-O   | 0 / 6753                  | -28.0                     | -28.0                           | 0.30 (1) |                           |                                 |                                |
| O-AI   | 0 / 4057                  | -28.0                     | -28.0                           | 0.30 (1) |                           |                                 |                                |
| AI-N   | 0 / 4057                  | -28.0                     | -28.0                           | 0.30 (1) |                           |                                 |                                |
| N-AJ   | 0 / 0                     | -28.0                     | -28.0                           | 0.05 (3) |                           |                                 |                                |
| AJ-M   | 0 / 0                     | -28.0                     | -28.0                           | 0.05 (3) |                           |                                 |                                |

**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 = 34.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 60.3 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, NBC 2010

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

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.03")  
CALCULATED VERT. DEFL. (LL) = U/999 (0.23")  
ALLOWABLE DEFL. (TL) = L/360 (1.03")  
CALCULATED VERT. DEFL. (TL) = U/952 (0.39")

CSI: TC=0.53/1.00 (D-E-1), BC=0.63/1.00 (Q-S-1), WB=0.52/1.00 (K-N-1), SSI=0.17/1.00 (C-D-1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (V) (INPUT = 0.80)  
JSI METAL= 0.71 (R) (INPUT = 1.00)



Tamarack Roof Truss, Burlington

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| U  | BMWw-t | MT20   | 5.0 | 6.0 |      |      |
| V  | BMWw-t | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| W  | BMWt+q | MT20   | 3.0 | 6.0 |      |      |

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

**HANGERS NOTES**

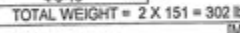
- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 545.6 lbs FACTORED DOWN AT 26-11-5, 545.6 lbs FACTORED DOWN AT 4-0-11, 149.7 lbs FACTORED DOWN AT 6-1-6, 149.7 lbs FACTORED DOWN AT 8-1-6, 149.7 lbs FACTORED DOWN AT 10-1-6, 149.7 lbs FACTORED DOWN AT 12-1-6, 149.7 lbs FACTORED DOWN AT 14-1-6, 149.7 lbs FACTORED DOWN AT 15-6-0, 149.7 lbs FACTORED DOWN AT 16-10-10, 149.7 lbs FACTORED DOWN AT 18-10-10, 149.7 lbs FACTORED DOWN AT 20-10-10, AND 149.7 lbs FACTORED DOWN AT 22-10-10, AND 149.7 lbs FACTORED DOWN AT 24-10-10 ON TOP CHORD, AND 69.9 lbs FACTORED DOWN AT 2-1-6, 69.9 lbs FACTORED DOWN AT 4-1-6, 69.9 lbs FACTORED DOWN AT 6-1-6, 69.9 lbs FACTORED DOWN AT 8-1-6, 69.9 lbs FACTORED DOWN AT 10-1-6, 69.9 lbs FACTORED DOWN AT 12-1-6, 69.9 lbs FACTORED DOWN AT 14-1-6, 69.9 lbs FACTORED DOWN AT 15-6-0, 69.9 lbs FACTORED DOWN AT 16-10-10, 69.9 lbs FACTORED DOWN AT 18-10-10, 69.9 lbs FACTORED DOWN AT 20-10-10, 69.9 lbs FACTORED DOWN AT 22-10-10, 69.9 lbs FACTORED DOWN AT 24-10-10, AND 69.9 lbs FACTORED DOWN AT 26-10-10, AND 69.9 lbs FACTORED DOWN AT 28-10-10 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  |
|----|----------|------|------|------|-------|------|-------|
| C  | 4-0-11   | -63  | -70  | ---  | FRONT | VERT | DEAD  |
| C  | 4-0-11   | -159 | -159 | ---  | FRONT | VERT | TOTAL |
| C  | 4-0-11   | -324 | -324 | ---  | FRONT | VERT | SNOW  |
| D  | 6-1-6    | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| E  | 12-1-6   | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| G  | 15-6-0   | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| H  | 18-10-10 | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| I  | 22-10-10 | -150 | -150 | ---  | FRONT | VERT | DEAD  |
| J  | 26-11-5  | -63  | -70  | ---  | FRONT | VERT | TOTAL |
| J  | 26-11-5  | -159 | -159 | ---  | FRONT | VERT | TOTAL |
| J  | 26-11-5  | -324 | -324 | ---  | FRONT | VERT | SNOW  |
| N  | 26-10-10 | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| O  | 22-10-10 | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| P  | 18-10-10 | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| Q  | 16-10-10 | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| S  | 14-1-6   | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| T  | 12-1-6   | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| U  | 8-1-6    | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| V  | 4-1-6    | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| X  | 6-1-6    | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| Y  | 10-1-6   | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| Z  | 14-1-6   | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| AA | 16-10-10 | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| AB | 20-10-10 | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| AC | 24-10-10 | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| AD | 2-1-6    | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| AE | 6-1-6    | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| AF | 10-1-6   | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| AG | 15-6-0   | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| AH | 20-10-10 | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| AI | 24-10-10 | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| AJ | 28-10-10 | -40  | -70  | ---  | FRONT | VERT | TOTAL |



DWG NO. TAM 3654-18  
STRUCTURAL  
COMPONENT ONLY



11528

S. KATSOUKAKOS

PROFESSIONAL ENGINEER

PROVINCE OF ONTARIO

| PLATES (table is in inches) |        |        |     |     |      |      |
|-----------------------------|--------|--------|-----|-----|------|------|
| JT                          | TYPE   | PLATES | W   | LEN | Y    | X    |
| V                           | BMWW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| W                           | BMV1+p | MT20   | 3.0 | 6.0 |      |      |

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

**HANGERS NOTES**

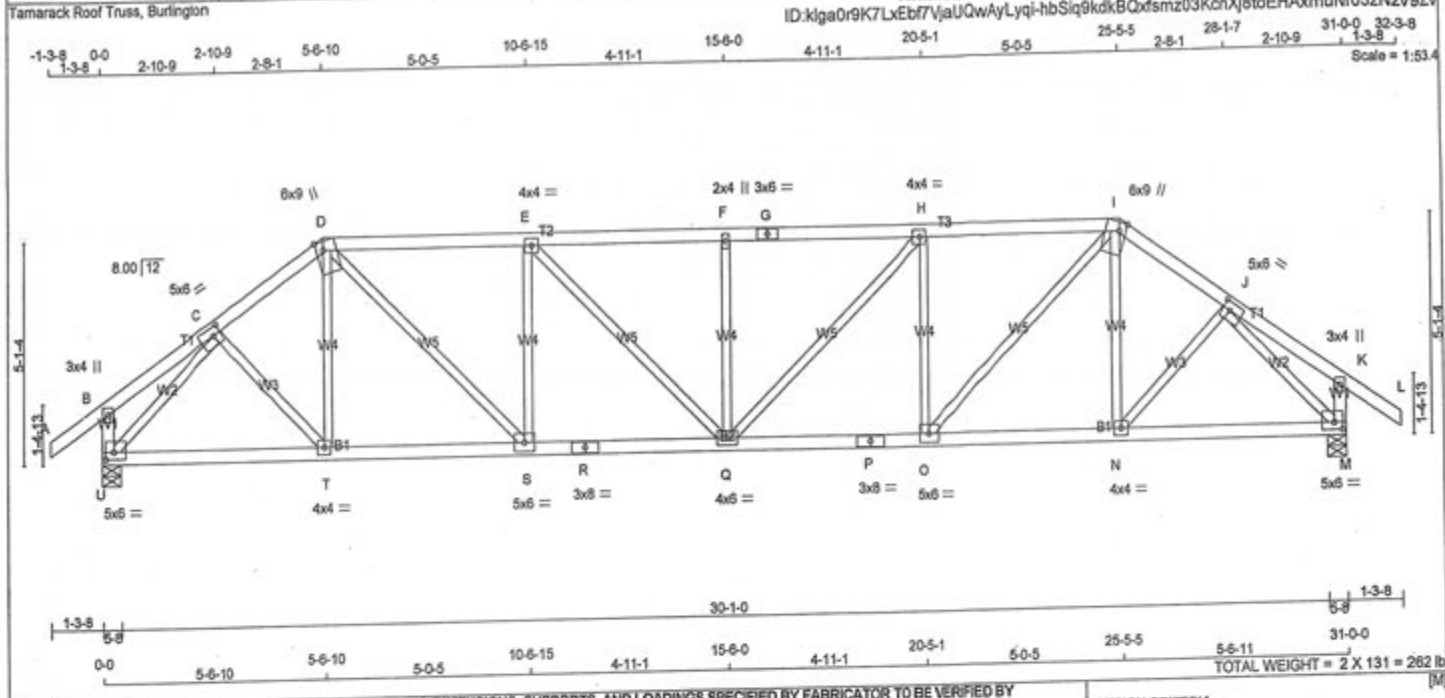
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 149.7 lbs FACTORED DOWN AT 12-3-12, AND 149.7 lbs FACTORED DOWN AT 14-3-12, AND 149.7 lbs FACTORED DOWN AT 16-3-12 ON TOP CHORD, AND 1567.6 lbs FACTORED DOWN AT 11-11-8, 69.9 lbs FACTORED DOWN AT 12-3-12, 69.9 lbs FACTORED DOWN AT 14-3-12, AND 69.9 lbs FACTORED DOWN AT 16-3-12, AND 1693.7 lbs FACTORED DOWN AT 16-8-8 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

LICENSED PROFESSIONAL ENGINEER  
11518  
S. KATSOULAKOS  
PROVINCE OF ONTARIO

DWG NO. TAM 3695-18  
STRUCTURAL  
COMPONENT ONLY



DWG NO. TAM 3655-18  
STRUCTURAL  
COMPONENT ONLY



| LUMBER          |      |        | N. L. G. A. RULES |     |  |
|-----------------|------|--------|-------------------|-----|--|
| CHORDS          | SIZE | LUMBER | DESCR.            |     |  |
| A - D           | 2x4  | DRY    | No.2              | SPF |  |
| D - G           | 2x4  | DRY    | No.2              | SPF |  |
| G - I           | 2x4  | DRY    | No.2              | SPF |  |
| I - L           | 2x4  | DRY    | No.2              | SPF |  |
| U - B           | 2x4  | DRY    | No.2              | SPF |  |
| M - K           | 2x4  | DRY    | No.2              | SPF |  |
| U - R           | 2x4  | DRY    | No.2              | SPF |  |
| R - P           | 2x4  | DRY    | No.2              | SPF |  |
| P - M           | 2x4  | DRY    | No.2              | SPF |  |
| ALL WEBS EXCEPT | 2x3  | DRY    | No.2              | SPF |  |

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |         |        |     |     |           |
|-----------------------------|---------|--------|-----|-----|-----------|
| JT                          | TYPE    | PLATES | W   | LEN | Y X       |
| B                           | TMV+p   | MT20   | 3.0 | 4.0 |           |
| C                           | TMWW-t  | MT20   | 5.0 | 6.0 | 2.25 2.25 |
| D                           | TTWW+m  | MT20   | 6.0 | 9.0 | Edge 2.00 |
| E                           | TMWW-t  | MT20   | 4.0 | 4.0 |           |
| F                           | TMV+w   | MT20   | 2.0 | 4.0 |           |
| G                           | TS-t    | MT20   | 3.0 | 6.0 |           |
| H                           | TMWW-t  | MT20   | 4.0 | 4.0 |           |
| I                           | TTWW+m  | MT20   | 6.0 | 9.0 | Edge 2.00 |
| J                           | TMWW-t  | MT20   | 5.0 | 6.0 | 2.25 2.25 |
| K                           | TMV+p   | MT20   | 3.0 | 4.0 |           |
| M                           | BMVW1-t | MT20   | 5.0 | 6.0 | 2.00 2.50 |
| N                           | BMWW-t  | MT20   | 4.0 | 4.0 |           |
| O                           | BMWW-t  | MT20   | 5.0 | 6.0 |           |
| P                           | BS-t    | MT20   | 3.0 | 8.0 |           |
| Q                           | BMWWW-t | MT20   | 4.0 | 6.0 |           |
| R                           | BS-t    | MT20   | 3.0 | 8.0 |           |
| S                           | BMWW-t  | MT20   | 5.0 | 6.0 |           |
| T                           | BMWW-t  | MT20   | 4.0 | 4.0 |           |
| U                           | BMVW1-t | MT20   | 5.0 | 6.0 | 2.00 2.50 |

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

| BUILDING DESIGNER |                |                  |       |       |        |       |
|-------------------|----------------|------------------|-------|-------|--------|-------|
| BEARINGS          |                |                  |       |       |        |       |
|                   | FACTORED       | MAXIMUM FACTORED | INPUT | REQRD |        |       |
|                   | GROSS REACTION | GROSS REACTION   | BRG   | BRG   |        |       |
| JT                | VERT           | HORZ             | DOWN  | HORZ  | UPLIFT | IN-SX |
| U                 | 2533           | 0                | 2533  | 0     | 0      | 5-8   |
| M                 | 2533           | 0                | 2533  | 0     | 0      | 5-8   |

| UNFACTORED REACTIONS |           |          |                     |           |       |         |
|----------------------|-----------|----------|---------------------|-----------|-------|---------|
|                      | 1ST LCASE | MAX/MIN  | COMPONENT REACTIONS |           |       |         |
| JT                   | COMBINED  | SNOW     | LIVE                | PERM.LIVE | WIND  | DEAD    |
| U                    | 1987      | 1174 / 0 | 326 / 0             | 0 / 0     | 0 / 0 | 487 / 0 |
| M                    | 1987      | 1174 / 0 | 326 / 0             | 0 / 0     | 0 / 0 | 487 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.91 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. CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO                 |                           | FROM TO                       |               |                    | FR-TO | MAX. CSI (LC)             |
| A-B                   | 0 / 47                    | -124.4 -124.4                 | 0.17 (1)      | 10.00              | C-T   | 0 / 323                   |
| B-C                   | 0 / 16                    | -124.4 -124.4                 | 0.12 (1)      | 10.00              | T-D   | -58 / 131                 |
| C-D                   | -2744 / 0                 | -124.4 -124.4                 | 0.21 (1)      | 4.02               | D-S   | 0 / 1700                  |
| D-E                   | -3492 / 0                 | -124.4 -124.4                 | 0.89 (1)      | 3.10               | S-E   | -1046 / 0                 |
| E-F                   | -3852 / 0                 | -124.4 -124.4                 | 0.74 (1)      | 2.91               | E-Q   | 0 / 502                   |
| F-G                   | -3852 / 0                 | -124.4 -124.4                 | 0.74 (1)      | 2.91               | Q-F   | -584 / 0                  |
| G-H                   | -3852 / 0                 | -124.4 -124.4                 | 0.74 (1)      | 2.91               | Q-H   | 0 / 502                   |
| H-I                   | -3492 / 0                 | -124.4 -124.4                 | 0.89 (1)      | 3.10               | O-H   | -1046 / 0                 |
| I-J                   | -2744 / 0                 | -124.4 -124.4                 | 0.21 (1)      | 4.02               | O-I   | 0 / 1700                  |
| J-K                   | 0 / 16                    | -124.4 -124.4                 | 0.12 (1)      | 10.00              | N-I   | -58 / 131                 |
| K-L                   | 0 / 47                    | -124.4 -124.4                 | 0.17 (1)      | 10.00              | N-J   | 0 / 323                   |
| U-B                   | -314 / 0                  | 0.0 0.0                       | 0.03 (1)      | 7.81               | U-C   | -2964 / 0                 |
| M-K                   | -314 / 0                  | 0.0 0.0                       | 0.03 (1)      | 7.81               | J-M   | -2964 / 0                 |

|     |          |             |          |       |
|-----|----------|-------------|----------|-------|
| U-T | 0 / 2037 | -28.0 -28.0 | 0.44 (1) | 10.00 |
| T-S | 0 / 2263 | -28.0 -28.0 | 0.47 (1) | 10.00 |
| S-R | 0 / 3493 | -28.0 -28.0 | 0.63 (1) | 10.00 |
| R-Q | 0 / 3493 | -28.0 -28.0 | 0.63 (1) | 10.00 |
| Q-P | 0 / 3493 | -28.0 -28.0 | 0.63 (1) | 10.00 |
| P-O | 0 / 3493 | -28.0 -28.0 | 0.63 (1) | 10.00 |
| O-N | 0 / 2263 | -28.0 -28.0 | 0.47 (1) | 10.00 |
| N-M | 0 / 2037 | -28.0 -28.0 | 0.44 (1) | 10.00 |

| SPECIFIED LOADS: |    |           |
|------------------|----|-----------|
| TOP CH. LL       | =  | 34.8 PSF  |
|                  | CL | = 8.0 PSF |
| BOT CH. LL       | =  | 10.5 PSF  |
|                  | DL | = 7.0 PSF |
| TOTAL LOAD       | =  | 60.3 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 CBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55% OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.03")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.21")  
ALLOWABLE DEFL.(TL)= L/360 (1.03")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.34")

CSI: TC=0.74/1.00 (E-F:1), BC=0.63/1.00 (O-Q:1),  
WB=0.79/1.00 (J-M:1), SS=0.29/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 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 |  |

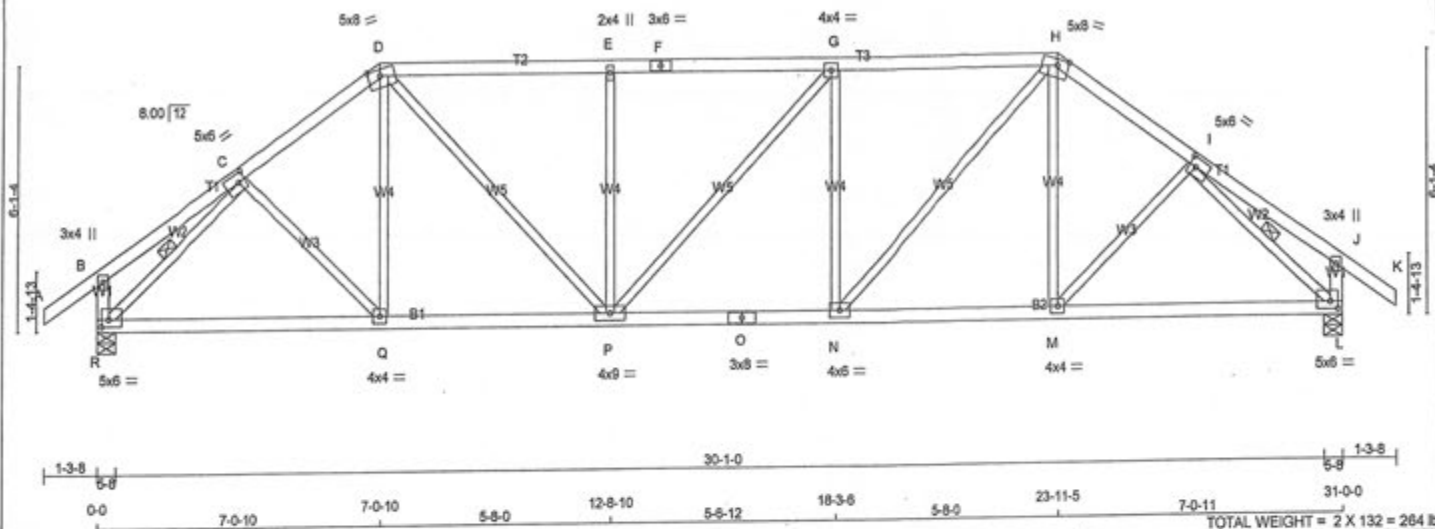
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (D) (INPUT = 0.90 )  
JSI METAL= 0.93 (R) (INPUT = 1.00 )

DWG NO. TAM 3656 -18  
STRUCTURAL  
COMPONENT ONLY





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

| PLATES (table is in inches) |        |        |     |               |
|-----------------------------|--------|--------|-----|---------------|
| JT                          | TYPE   | PLATES | W   | LEN Y X       |
| B                           | TMV+p  | MT20   | 3.0 | 4.0           |
| C                           | TMWW+1 | MT20   | 5.0 | 6.0 2.50 2.00 |
| D                           | TTWW-m | MT20   | 5.0 | 8.0 1.75 3.50 |
| E                           | TMW+w  | MT20   | 2.0 | 4.0           |
| F                           | TS-1   | MT20   | 3.0 | 6.0           |
| G                           | TMWW-1 | MT20   | 4.0 | 4.0           |
| H                           | TTWW-m | MT20   | 5.0 | 8.0 1.75 3.50 |
| I                           | TMWW-1 | MT20   | 5.0 | 6.0 2.50 2.00 |
| J                           | TMV+p  | MT20   | 3.0 | 4.0           |
| L                           | BMVW-1 | MT20   | 5.0 | 6.0 2.00 2.25 |
| M                           | BMWW-1 | MT20   | 4.0 | 4.0           |
| N                           | BMWW-1 | MT20   | 4.0 | 6.0           |
| O                           | BS-1   | MT20   | 3.0 | 8.0           |
| P                           | BMWW-1 | MT20   | 4.0 | 9.0           |
| Q                           | BMWW-1 | MT20   | 4.0 | 4.0           |
| R                           | BMVW-1 | MT20   | 5.0 | 6.0 2.00 2.25 |

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

| BEARINGS |      | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |        | INPUT BRG |       | REQD BRG |       |
|----------|------|-------------------------|------|---------------------------------|--------|-----------|-------|----------|-------|
| JT       | VERT | HORZ                    | DOWN | HORZ                            | UPLIFT | IN-SX     | IN-SX | IN-SX    | IN-SX |
| R        | 2533 | 0                       | 2533 | 0                               | 0      | 5-8       | 5-8   | 5-8      | 5-8   |
| L        | 2533 | 0                       | 2533 | 0                               | 0      | 5-8       | 5-8   | 5-8      | 5-8   |

## UNFACTORED REACTIONS

| 1ST LCASE |          | MAX. MIN. COMPONENT REACTIONS |         | WIND       |       | DEAD    |       | SOIL    |       |
|-----------|----------|-------------------------------|---------|------------|-------|---------|-------|---------|-------|
| JT        | COMBINED | SNOW                          | LIVE    | PERM. LIVE | WIND  | DEAD    | SOIL  | DEAD    | SOIL  |
| R         | 1987     | 1174 / 0                      | 326 / 0 | 0 / 0      | 0 / 0 | 487 / 0 | 0 / 0 | 487 / 0 | 0 / 0 |
| L         | 1987     | 1174 / 0                      | 326 / 0 | 0 / 0      | 0 / 0 | 487 / 0 | 0 / 0 | 487 / 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 = 3.13 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-R, I-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 |             | FACTORED         |                 | MEMB.                |       | WEBS      |             | FACTORED             |       |
|--------|-------------|------------------|-----------------|----------------------|-------|-----------|-------------|----------------------|-------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX (LC)    | MAX. UNBRACED LENGTH | FR-TO | MEMB.     | FORCE (LBS) | MAX. UNBRACED LENGTH | FR-TO |
| A-B    | 0 / 47      | -124.4           | -124.4 0.17 (1) | 10.00                | C-Q   | 0 / 173   | 0.04 (3)    | 10.00                | C-Q   |
| B-C    | 0 / 25      | -124.4           | -124.4 0.22 (1) | 10.00                | Q-D   | 0 / 251   | 0.06 (3)    | 10.00                | Q-D   |
| C-D    | -2723 / 0   | -124.4           | -124.4 0.33 (1) | 3.91                 | D-P   | 0 / 1254  | 0.28 (1)    | 3.91                 | D-P   |
| D-E    | -3120 / 0   | -124.4           | -124.4 0.79 (1) | 3.14                 | P-E   | -755 / 0  | 0.44 (1)    | 3.14                 | P-E   |
| E-F    | -3120 / 0   | -124.4           | -124.4 0.79 (1) | 3.13                 | P-G   | -3 / 0    | 0.00 (1)    | 3.13                 | P-G   |
| F-G    | -3120 / 0   | -124.4           | -124.4 0.79 (1) | 3.13                 | N-G   | -758 / 0  | 0.44 (1)    | 3.13                 | N-G   |
| G-H    | -3122 / 0   | -124.4           | -124.4 0.80 (1) | 3.13                 | N-H   | 0 / 1257  | 0.28 (1)    | 3.13                 | N-H   |
| H-I    | -2723 / 0   | -124.4           | -124.4 0.33 (1) | 3.91                 | M-H   | 0 / 251   | 0.06 (3)    | 3.91                 | M-H   |
| I-J    | 0 / 25      | -124.4           | -124.4 0.22 (1) | 10.00                | M-I   | 0 / 173   | 0.04 (3)    | 10.00                | M-I   |
| J-K    | 0 / 47      | -124.4           | -124.4 0.17 (1) | 10.00                | R-C   | -3017 / 0 | 0.60 (1)    | 10.00                | R-C   |
| R-B    | -345 / 0    | 0.0              | 0.0 0.04 (1)    | 7.81                 | I-L   | -3017 / 0 | 0.60 (1)    | 7.81                 | I-L   |
| L-J    | -345 / 0    | 0.0              | 0.0 0.04 (1)    | 7.81                 |       |           |             |                      |       |
| R-Q    | 0 / 2162    | -28.0            | -28.0 0.54 (2)  | 10.00                |       |           |             |                      |       |
| Q-P    | 0 / 2243    | -28.0            | -28.0 0.56 (2)  | 10.00                |       |           |             |                      |       |
| P-O    | 0 / 3122    | -28.0            | -28.0 0.58 (1)  | 10.00                |       |           |             |                      |       |
| O-N    | 0 / 3122    | -28.0            | -28.0 0.58 (1)  | 10.00                |       |           |             |                      |       |
| N-M    | 0 / 2243    | -28.0            | -28.0 0.56 (2)  | 10.00                |       |           |             |                      |       |
| M-L    | 0 / 2162    | -28.0            | -28.0 0.54 (2)  | 10.00                |       |           |             |                      |       |

## DESIGN CRITERIA

### SPECIFIED LOADS:

TOP CH. LL = 34.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 60.3 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 085-09  
- TPIC 2011

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.03")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.17")  
ALLOWABLE DEFL.(TL) = L/360 (1.03")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.29")

CSI: TC=0.80/1.00 (G-H:1), BC=0.58/1.00 (N-P:1),  
WB=0.60/1.00 (C-R:1), SSI=0.33/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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 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= 0.90 (O) (INPUT = 1.00)



DWG NO. TAM 3657 -1%  
STRUCTURAL  
COMPONENT ONLY



DRY: SEASONED LUMBER.

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

| BEARINGS | 100000 | 100000 | 100000 |
|----------|--------|--------|--------|
|----------|--------|--------|--------|

| 1ST LCASE | MAX/MIN. COMPONENT REACTIONS |           |        |      |        |
|-----------|------------------------------|-----------|--------|------|--------|
|           | CEILING                      | PERMANENT | WIND   | DEAD | SAFETY |
| 1         | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 2         | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 3         | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 4         | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 5         | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 6         | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 7         | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 8         | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 9         | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 10        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 11        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 12        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 13        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 14        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 15        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 16        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 17        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 18        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 19        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 20        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 21        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 22        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 23        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 24        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 25        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 26        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 27        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 28        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 29        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 30        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 31        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 32        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 33        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 34        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 35        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 36        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 37        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 38        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 39        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 40        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 41        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 42        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 43        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 44        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 45        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 46        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 47        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 48        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 49        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 50        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 51        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 52        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 53        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 54        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 55        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 56        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 57        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 58        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 59        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 60        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 61        | 1.00                         | 1.00      | 1.00   | 1.00 | 1.00   |
| 62        | 1.00                         | 1.00      | 1.00</ |      |        |

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

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.75 FT.

ALL BEARING JOINTS MUST BE LATERALLY RESTRAINED

\_\_\_\_\_

... OF HALF BRACES AS INDICATED IN

## TOTAL LOAD CASES: (4)

11600

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1. *Journal of the American Medical Association*, 2000; 283: 2689-2693.

TOP CH. LL = 34.8 PSF

SPACING = 24.0 IN. CC

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|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

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PLATE GRIP(DRY) SHEAR SECTION

[illegible]

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1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.

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[illegible]

SPF

E

## BOLETS BEARINGS

100

## 1ST LCASE MA

10

BEARING 1

**BRACING**  
**TOP CHO**

741 228

ALL PITCHES

1 LATERA

THE MAX

## TOTAL LC

TOTAL CO

1990

10.00  
10.00  
10.00  
10.00  
10.00

LICENSED PROFESSIONAL ENGINEER  
1818  
S. KATSOULAKOS  
PROVINCE OF ONTARIO

**DESIGN NOTE 101**

TOP CH LL =

TOTAL LOAD =

SPACING = 24.0

SPAGNOLI

**Figure 1**

**TABLE 1**

1000

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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NO-0.0-000 p.p.

CONFIDENTIAL

COMPARISON OF...

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## PLATE GRIP

0120 010 004

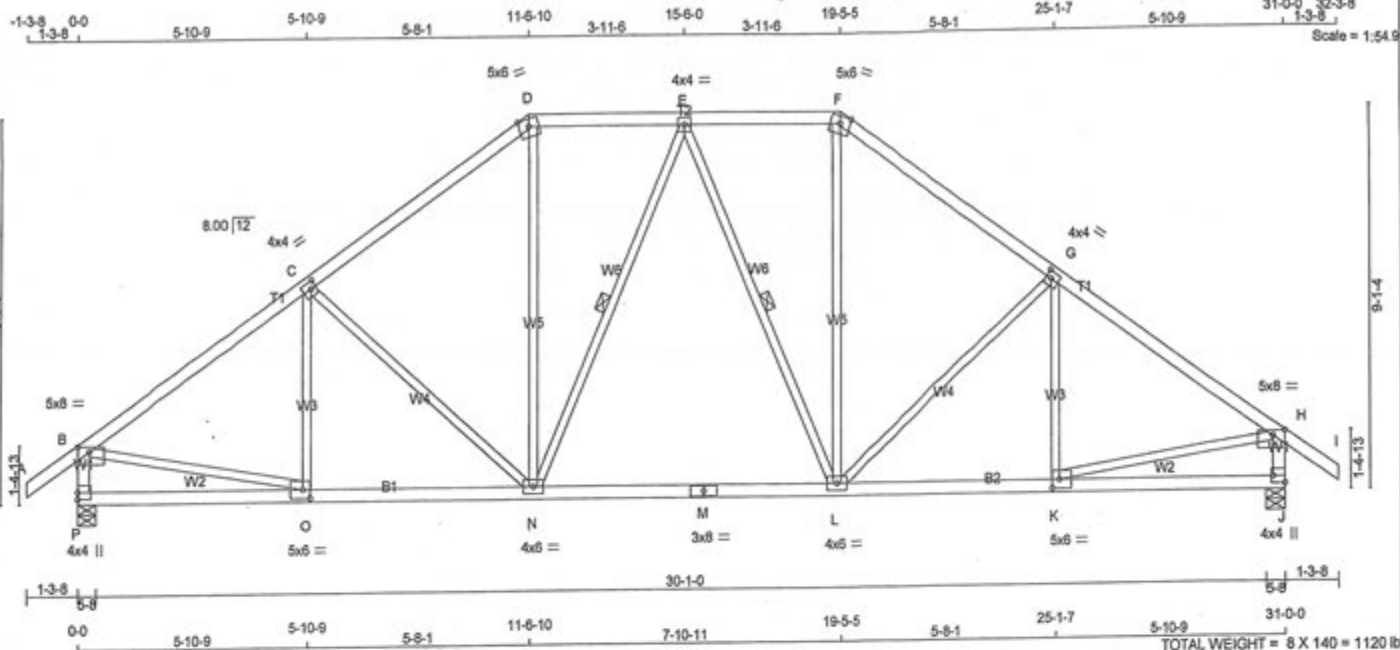
DATE FORWARDED

PLATE ROTATION

2010-11-12 09:00

DWG NO. TAM 3659-18  
STRUCTURAL  
COMPONENT ONLY

Tamarack Roof Truss, Burlington



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

| CHORDS          | SIZE | DRY | 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           | 2x4  | DRY | No.2   | SPF    |
| J - H           | 2x4  | DRY | No.2   | SPF    |
| P - M           | 2x4  | DRY | No.2   | SPF    |
| M - J           | 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  | TM/V-p  | MT20   | 5.0 | 8.0 | 1.50 | 3.50 |
| C  | TM/VW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D  | TTW-m   | MT20   | 5.0 | 6.0 | Edge |      |
| E  | TM/VW-t | MT20   | 4.0 | 4.0 |      |      |
| F  | TTW-m   | MT20   | 5.0 | 6.0 | Edge |      |
| G  | TM/VW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| H  | TM/VW-p | MT20   | 5.0 | 8.0 | 1.50 | 3.50 |
| J  | BM/V1+p | MT20   | 4.0 | 4.0 | 2.00 | Edge |
| K  | BM/VW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| L  | BM/VW-t | MT20   | 4.0 | 6.0 |      |      |
| M  | BS-t    | MT20   | 3.0 | 8.0 |      |      |
| N  | BM/VW-t | MT20   | 4.0 | 6.0 |      |      |
| O  | BM/VW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| P  | BM/V1+p | 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**

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |         | INPUT BRG | REQD IN-SX |
|----|-------------------------|------|---------------------------------|---------|-----------|------------|
|    | VERT                    | HORZ | DOWN                            | UP/LIFT |           |            |
| P  | 2533                    | 0    | 2533                            | 0       | 5-8       | 5-8        |
| J  | 2533                    | 0    | 2533                            | 0       | 5-8       | 5-8        |

**UNFACTORED REACTIONS**

| JT | MAX/MIN COMPONENT REACTIONS |          |         |            |       |         |       |
|----|-----------------------------|----------|---------|------------|-------|---------|-------|
|    | COMBINED                    | SNOW     | LIVE    | PERM. LIVE | WIND  | DEAD    | SOIL  |
| P  | 1987                        | 1174 / 0 | 326 / 0 | 0 / 0      | 0 / 0 | 487 / 0 | 0 / 0 |
| J  | 1987                        | 1174 / 0 | 326 / 0 | 0 / 0      | 0 / 0 | 487 / 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 = 3.42 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 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)

| MEMB. | CHORDS                    |                  | FACTORED |          | MAX. UNBRACED LENGTH | MEMB. | WEBS                      |                        |
|-------|---------------------------|------------------|----------|----------|----------------------|-------|---------------------------|------------------------|
|       | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | LC1      | LC2      |                      |       | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |
| FR-TO |                           |                  |          |          |                      | FR-TO |                           |                        |
| A-B   | 0 / 47                    | -124.4           | -124.4   | 0.17 (1) | 10.00                | O-C   | -268 / 106                | 0.11 (1)               |
| B-C   | -2794 / 0                 | -124.4           | -124.4   | 0.71 (1) | 3.42                 | C-N   | -542 / 0                  | 0.64 (1)               |
| C-D   | -2399 / 0                 | -124.4           | -124.4   | 0.64 (1) | 3.72                 | N-D   | 0 / 844                   | 0.19 (1)               |
| D-E   | -1963 / 0                 | -124.4           | -124.4   | 0.27 (1) | 4.56                 | E-L   | -319 / 0                  | 0.21 (1)               |
| E-F   | -1963 / 0                 | -124.4           | -124.4   | 0.27 (1) | 4.56                 | E-L   | -319 / 0                  | 0.21 (1)               |
| F-G   | -2399 / 0                 | -124.4           | -124.4   | 0.64 (1) | 3.72                 | L-F   | 0 / 844                   | 0.19 (1)               |
| G-H   | -2794 / 0                 | -124.4           | -124.4   | 0.71 (1) | 3.42                 | L-G   | -542 / 0                  | 0.64 (1)               |
| H-I   | 0 / 47                    | -124.4           | -124.4   | 0.17 (1) | 10.00                | K-G   | -268 / 106                | 0.11 (1)               |
| P-B   | -2462 / 0                 | 0.0              | 0.0      | 0.25 (1) | 5.46                 | B-O   | 0 / 2403                  | 0.54 (1)               |
| J-H   | -2462 / 0                 | 0.0              | 0.0      | 0.25 (1) | 5.46                 | K-H   | 0 / 2403                  | 0.54 (1)               |
| P-O   | 0 / 0                     | -28.0            | -28.0    | 0.22 (3) | 10.00                |       |                           |                        |
| O-N   | 0 / 2363                  | -28.0            | -28.0    | 0.54 (1) | 10.00                |       |                           |                        |
| N-M   | 0 / 2091                  | -28.0            | -28.0    | 0.50 (2) | 10.00                |       |                           |                        |
| M-L   | 0 / 2091                  | -28.0            | -28.0    | 0.50 (2) | 10.00                |       |                           |                        |
| L-K   | 0 / 2363                  | -28.0            | -28.0    | 0.54 (1) | 10.00                |       |                           |                        |
| K-J   | 0 / 0                     | -28.0            | -28.0    | 0.22 (3) | 10.00                |       |                           |                        |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 34.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 60.3 PSF

**SPACING = 24.0 IN./C**

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

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

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

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.03")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")  
ALLOWABLE DEFL.(TL) = L/360 (1.03")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.27")

CSI: TC=0.71/1.00 (G-H-1), BC=0.54/1.00 (K-L-1), WB=0.54/1.00 (G-L-1), SSI=0.29/1.00 (G-H-1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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 1067 822 2284 1656

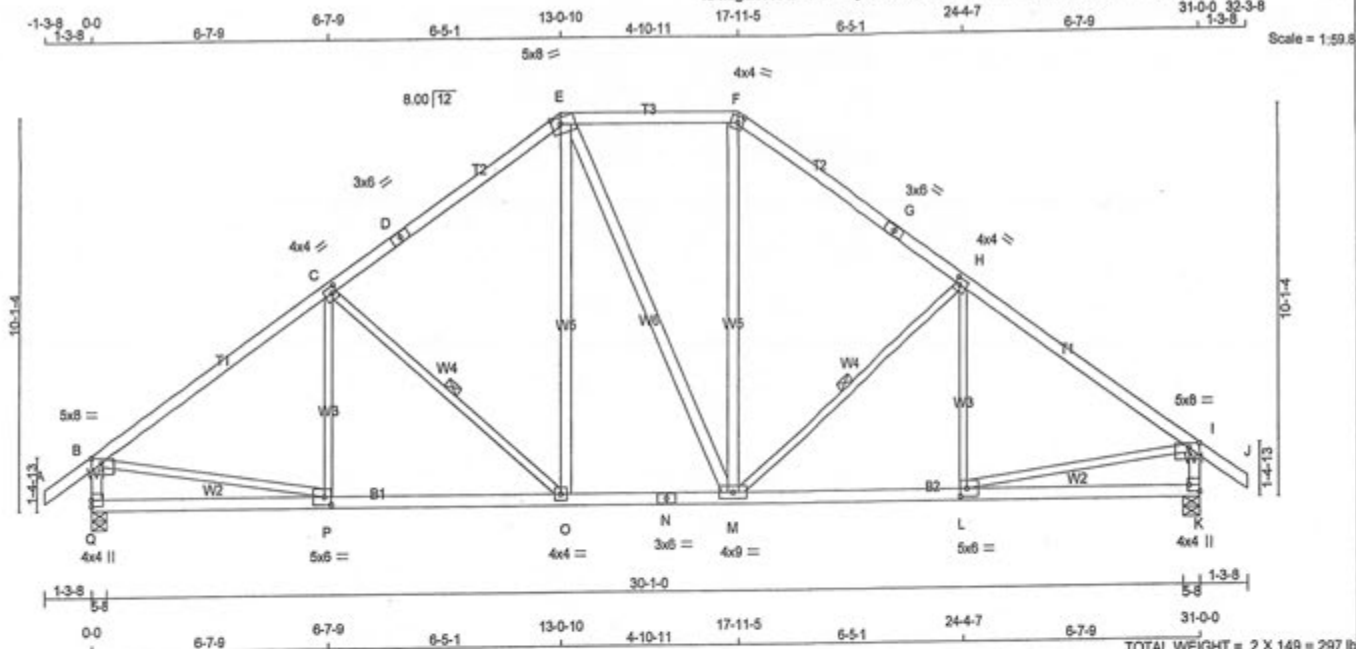
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (K) (INPUT = 0.90)  
JSI METAL= 0.72 (M) (INPUT = 1.00)



DRWG NO. TAM 3660 -18  
STRUCTURAL  
COMPONENT ONLY



| 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    |        |
| G - J    | 2x4            | DRY    | No.2 | SPF    |        |
| Q - B    | 2x4            | DRY    | No.2 | SPF    |        |
| K - I    | 2x4            | DRY    | No.2 | SPF    |        |
| Q - N    | 2x4            | DRY    | No.2 | SPF    |        |
| N - K    | 2x4            | DRY    | No.2 | SPF    |        |
| ALL WEBS | 2x3            | DRY    | No.2 | SPF    |        |
| EXCEPT   |                |        |      |        |        |
| O - E    | 2x4            | DRY    | No.2 | SPF    |        |
| E - M    | 2x4            | DRY    | No.2 | SPF    |        |
| M - F    | 2x4            | DRY    | No.2 | SPF    |        |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| R  | TMWW-p | MT20   | 5.0 | 8.0 | 1.50 | 3.50 |
| C  | TMWW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D  | TS-t   | MT20   | 3.0 | 6.0 |      |      |
| E  | TTWW-m | MT20   | 5.0 | 8.0 | 2.00 | 3.00 |
| F  | TTW-m  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| G  | TS-t   | MT20   | 3.0 | 6.0 |      |      |
| H  | TMWW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| I  | TMWW-p | MT20   | 5.0 | 8.0 | 1.50 | 3.50 |
| K  | BMV1-p | MT20   | 4.0 | 4.0 | 2.00 | Edge |
| L  | BMWW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| M  | BMWW-t | MT20   | 4.0 | 9.0 |      |      |
| N  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| O  | BMWW-t | MT20   | 4.0 | 4.0 |      |      |
| P  | BMWW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| Q  | BMV1-p | MT20   | 4.0 | 4.0 |      |      |

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

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |    | INPUT BRG IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|----|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | UP |                 |                |
| Q  | 2533                    | 0    | 2533                            | 0  | 5-8             | 5-8            |
| K  | 2533                    | 0    | 2533                            | 0  | 5-8             | 5-8            |

#### UNFACTORED REACTIONS

| JT | 1ST LCASE |          | MAX/MIN. COMPONENT REACTIONS |           | WIND  | DEAD    | SOIL  |
|----|-----------|----------|------------------------------|-----------|-------|---------|-------|
|    | COMBINED  | SNOW     | LIVE                         | PERM.LIVE |       |         |       |
| Q  | 1987      | 1174 / 0 | 326 / 0                      | 0 / 0     | 0 / 0 | 487 / 0 | 0 / 0 |
| K  | 1987      | 1174 / 0 | 326 / 0                      | 0 / 0     | 0 / 0 | 487 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.99 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-O, H-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  |                           |              |  |  |
|--------|---------------------------|---------------------------|------------------|----------------------|-------|---------------------------|--------------|--|--|
| 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 / 47                    | -124.4 -124.4             | 0.17 (1)         | 10.00                | P-C   | -177 / 200                | 0.09 (1)     |  |  |
| B-C    | -2802 / 0                 | -124.4 -124.4             | 0.94 (1)         | 2.99                 | C-O   | -726 / 0                  | 0.36 (1)     |  |  |
| C-D    | -2245 / 0                 | -124.4 -124.4             | 0.83 (1)         | 3.47                 | O-E   | 0 / 613                   | 0.10 (1)     |  |  |
| D-E    | -2245 / 0                 | -124.4 -124.4             | 0.83 (1)         | 3.47                 | E-M   | 0 / 2                     | 0.00 (1)     |  |  |
| E-F    | -1830 / 0                 | -124.4 -124.4             | 0.43 (1)         | 4.49                 | M-F   | 0 / 615                   | 0.10 (1)     |  |  |
| F-G    | -2248 / 0                 | -124.4 -124.4             | 0.83 (1)         | 3.47                 | M-H   | -724 / 0                  | 0.36 (1)     |  |  |
| G-H    | -2248 / 0                 | -124.4 -124.4             | 0.83 (1)         | 3.47                 | L-H   | -179 / 199                | 0.09 (1)     |  |  |
| H-I    | -2802 / 0                 | -124.4 -124.4             | 0.94 (1)         | 2.99                 | B-P   | 0 / 2408                  | 0.54 (1)     |  |  |
| I-J    | 0 / 47                    | -124.4 -124.4             | 0.17 (1)         | 10.00                | L-I   | 0 / 2407                  | 0.54 (1)     |  |  |
| Q-B    | -2457 / 0                 | 0.0 0.0                   | 0.25 (1)         | 5.48                 |       |                           |              |  |  |
| K-I    | -2457 / 0                 | 0.0 0.0                   | 0.25 (1)         | 5.48                 |       |                           |              |  |  |
| Q-P    | 0 / 0                     | -28.0 -28.0               | 0.34 (3)         | 10.00                |       |                           |              |  |  |
| P-O    | 0 / 2376                  | -28.0 -28.0               | 0.59 (2)         | 10.00                |       |                           |              |  |  |
| O-N    | 0 / 1829                  | -28.0 -28.0               | 0.39 (1)         | 10.00                |       |                           |              |  |  |
| N-M    | 0 / 1829                  | -28.0 -28.0               | 0.39 (1)         | 10.00                |       |                           |              |  |  |
| M-L    | 0 / 2376                  | -28.0 -28.0               | 0.59 (2)         | 10.00                |       |                           |              |  |  |
| L-K    | 0 / 0                     | -28.0 -28.0               | 0.34 (3)         | 10.00                |       |                           |              |  |  |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 34.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 60.3 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 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.03')  
CALCULATED VERT. DEFL.(LL) = L/999 (0.12')  
ALLOWABLE DEFL.(TL) = L/360 (1.03')  
CALCULATED VERT. DEFL.(TL) = L/999 (0.22')

CSI: TC=0.94/1.00 (B-C-1), BC=0.56/1.00 (O-P-2), WB=0.54/1.00 (B-P-1), SS=0.33/1.00 (H-I-1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

#### NAIL VALUES

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

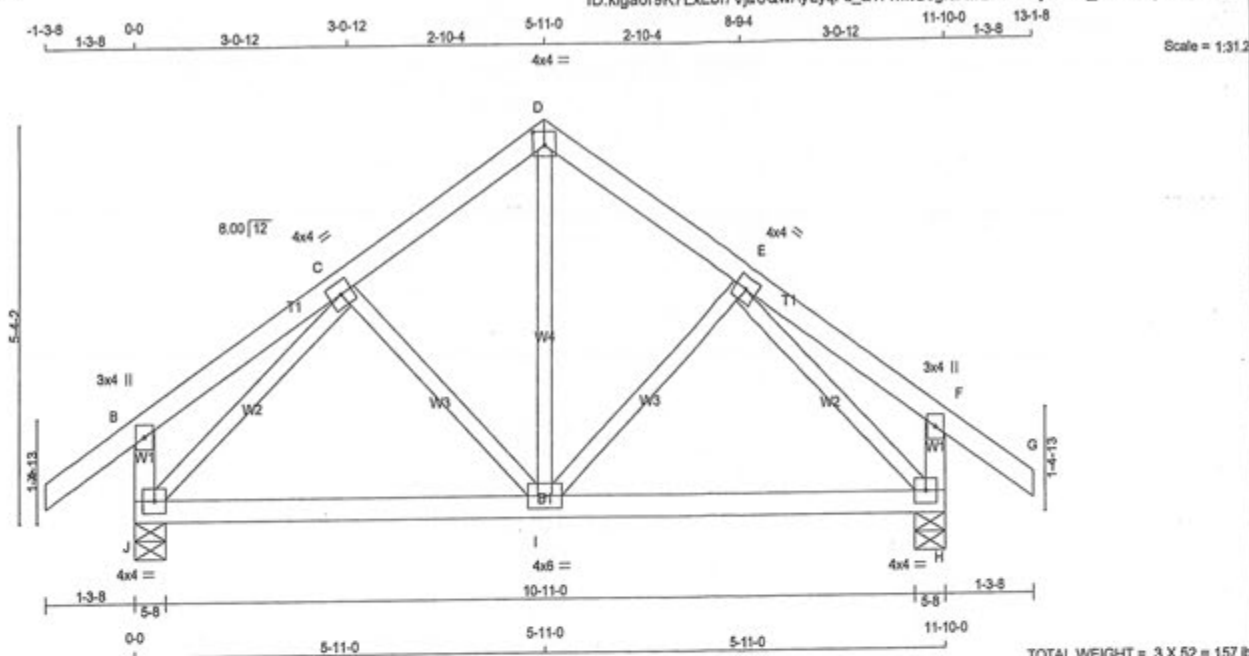
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.85 (F) (INPUT = 0.90)  
JSI METAL= 0.59 (P) (INPUT = 1.00)



DRWG NO. TAM 3661 -18  
STRUCTURAL  
COMPONENT ONLY



TOTAL WEIGHT = 3 X 52 = 157 lb

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

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

SPF

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWW-t | MT20   | 4.0 | 4.0 |      |      |
| D  | TIW-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  | BMVW-t | MT20   | 4.0 | 4.0 |      |      |
| I  | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| J  | BMVW-t | MT20   | 4.0 | 4.0 |      |      |

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

**BEARINGS**

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG IN-SX | REQD BRG IN-SX |
|----|-------------------------|---------------------------------|-----------------|----------------|
| JT | VERT                    | DOWN                            | 0               | 0              |
| J  | 1072                    | 0                               | 0               | 0              |
| H  | 1072                    | 0                               | 0               | 0              |

**UNFACTORED REACTIONS**

| 1ST LCASE | MAX / MIN | COMPONENT REACTIONS                       |
|-----------|-----------|-------------------------------------------|
| JT        | COMBINED  | SNOW LIVE PERM. LIVE WIND DEAD SOIL       |
| J         | 831       | 507 / 0 124 / 0 0 / 0 0 / 0 199 / 0 0 / 0 |
| H         | 831       | 507 / 0 124 / 0 0 / 0 0 / 0 199 / 0 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) J, 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. FACTORED LC1 (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED LC1 (LBS) |  |
| FR-TO  |                           | FROM TO                   |                         | FR-TO |                           |                         |  |
| A-B    | 0 / 47                    | -124.4 -124.4             | 0.17 (1)                | I-D   | 0 / 448                   | 0.10 (1)                |  |
| B-C    | 0 / 22                    | -124.4 -124.4             | 0.18 (1)                | I-E   | -171 / 24                 | 0.05 (1)                |  |
| C-D    | -687 / 0                  | -124.4 -124.4             | 0.13 (1)                | C-I   | -171 / 24                 | 0.05 (1)                |  |
| D-E    | -687 / 0                  | -124.4 -124.4             | 0.13 (1)                | J-C   | -967 / 0                  | 0.28 (1)                |  |
| E-F    | 0 / 22                    | -124.4 -124.4             | 0.16 (1)                | E-H   | -967 / 0                  | 0.28 (1)                |  |
| F-G    | 0 / 47                    | -124.4 -124.4             | 0.17 (1)                |       |                           |                         |  |
| J-B    | -314 / 0                  | 0.0 0.0                   | 0.03 (1)                |       |                           |                         |  |
| H-F    | -314 / 0                  | 0.0 0.0                   | 0.03 (1)                |       |                           |                         |  |
| J-I    | 0 / 672                   | -28.0 -28.0               | 0.36 (3)                |       |                           |                         |  |
| I-H    | 0 / 672                   | -28.0 -28.0               | 0.36 (3)                |       |                           |                         |  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 34.8 | PSF |
|            | DL = 8.0  | PSF |
| BOT CH.    | LL = 10.5 | PSF |
|            | DL = 7.0  | PSF |
| TOTAL LOAD | = 60.3    | 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 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.39")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL) = L/360 (0.39")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.17/1.00 (A-B:1), BC=0.36/1.00 (H-I:3), WB=0.28/1.00 (E-H:1), SSI=0.16/1.00 (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   | 1697 822 | 2284 1656 |

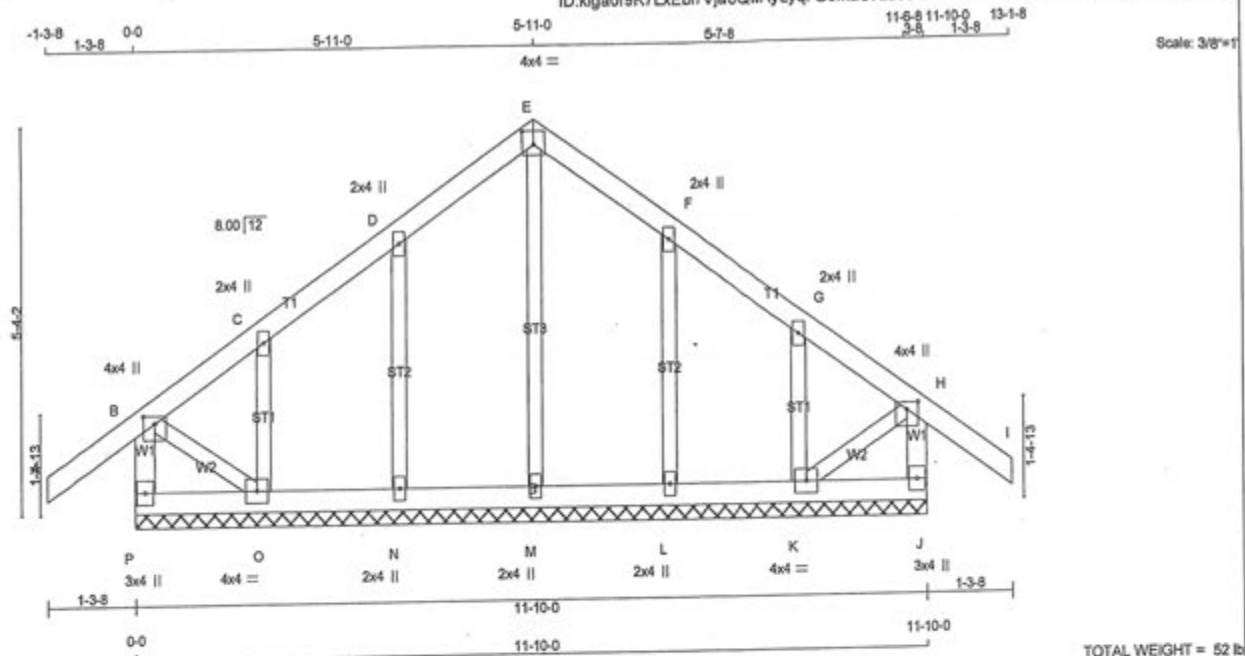
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.88 (E) (INPUT = 0.90 )  
JSI METAL= 0.34 (E) (INPUT = 1.00 )



DRWG NO. TAM 3662-18  
STRUCTURAL  
COMPONENT ONLY



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

| CHORDS               | SIZE | LUMBER   | DESCR. |
|----------------------|------|----------|--------|
| P - B                | 2x4  | DRY No.2 | SPF    |
| A - E                | 2x4  | DRY No.2 | SPF    |
| E - I                | 2x4  | DRY No.2 | SPF    |
| J - H                | 2x4  | DRY No.2 | SPF    |
| P - J                | 2x4  | DRY No.2 | SPF    |
| ALL WEBS             | 2x3  | DRY No.2 | SPF    |
| ALL GABLE WEBS       | 2x3  | DRY No.2 | SPF    |
| DRY: SEASONED LUMBER |      |          |        |

GABLE STUDS SPACED AT 2-0-0 OC.

**PLATES (table is in inches)**

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

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

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

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

| CHORDS |                           |                           |                   | WEBS                 |       |                           |               |          |
|--------|---------------------------|---------------------------|-------------------|----------------------|-------|---------------------------|---------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX. CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |          |
| FR-TO  |                           | FROM TO                   |                   |                      | FR-TO |                           |               |          |
| P-B    | -367 / 0                  | 0.0                       | 0.0               | 0.04 (1)             | 7.81  | M-E                       | -190 / 0      | 0.08 (1) |
| A-B    | 0 / 147                   | -124.4                    | -124.4            | 0.17 (1)             | 10.00 | N-D                       | -298 / 0      | 0.07 (1) |
| B-C    | -57 / 0                   | -124.4                    | -124.4            | 0.16 (1)             | 6.25  | O-C                       | -159 / 0      | 0.03 (1) |
| C-D    | -8 / 0                    | -124.4                    | -124.4            | 0.08 (1)             | 10.00 | L-F                       | -298 / 0      | 0.07 (1) |
| D-E    | -27 / 0                   | -124.4                    | -124.4            | 0.08 (1)             | 6.25  | K-G                       | -159 / 0      | 0.03 (1) |
| E-F    | -27 / 0                   | -124.4                    | -124.4            | 0.08 (1)             | 6.25  | B-O                       | 0 / 25        | 0.01 (1) |
| F-G    | -8 / 0                    | -124.4                    | -124.4            | 0.08 (1)             | 10.00 | K-H                       | 0 / 25        | 0.01 (1) |
| G-H    | -57 / 0                   | -124.4                    | -124.4            | 0.16 (1)             | 6.25  |                           |               |          |
| H-I    | 0 / 147                   | -124.4                    | -124.4            | 0.17 (1)             | 10.00 |                           |               |          |
| J-H    | -367 / 0                  | 0.0                       | 0.0               | 0.04 (1)             | 7.81  |                           |               |          |
| P-O    | 0 / 0                     | -28.0                     | -28.0             | 0.03 (3)             | 10.00 |                           |               |          |
| O-N    | 0 / 17                    | -28.0                     | -28.0             | 0.03 (3)             | 10.00 |                           |               |          |
| N-M    | 0 / 10                    | -28.0                     | -28.0             | 0.03 (3)             | 10.00 |                           |               |          |
| M-L    | 0 / 10                    | -28.0                     | -28.0             | 0.03 (3)             | 10.00 |                           |               |          |
| L-K    | 0 / 17                    | -28.0                     | -28.0             | 0.03 (3)             | 10.00 |                           |               |          |
| K-J    | 0 / 0                     | -28.0                     | -28.0             | 0.03 (3)             | 10.00 |                           |               |          |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 34.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 60.3 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 CBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

**DESIGN ASSUMPTIONS**  
- OVERHANG NOT TO BE ALTERED OR CUT OFF.  
(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.17/1.00 (A-B-1), BC=0.03/1.00 (K-L-3), WB=0.08/1.00 (E-M-1), SSI=0.11/1.00 (A-B-1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

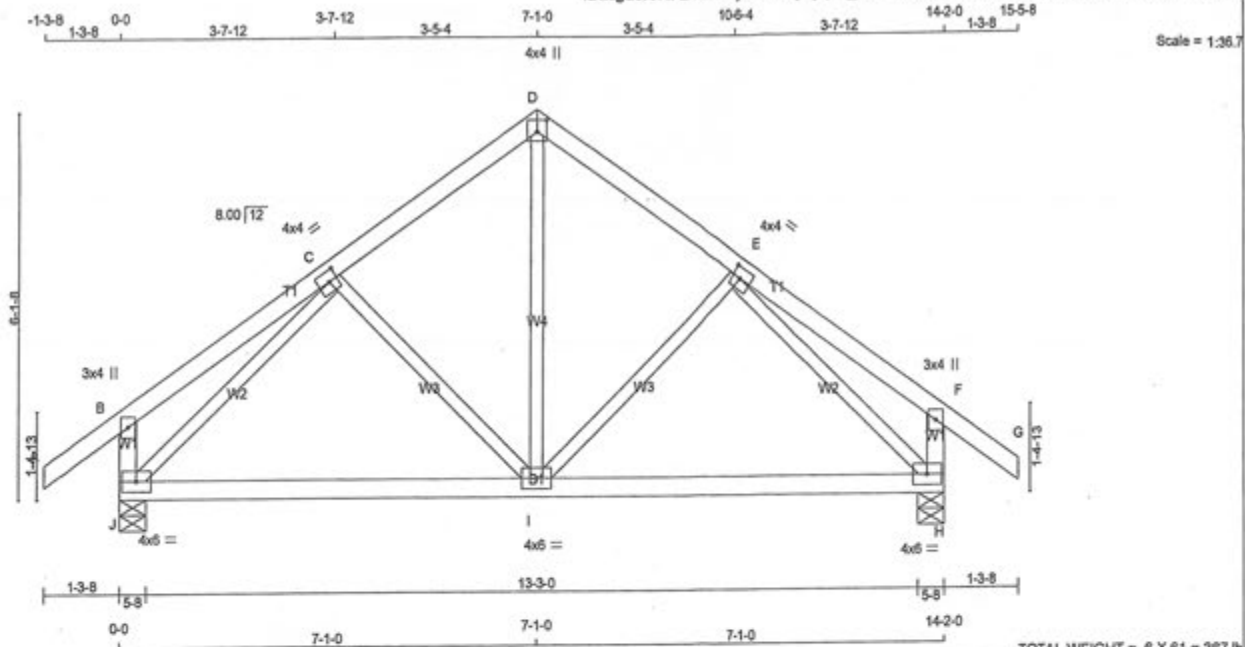
**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches  
PLATE ROTATION TOL. = 5.0 Deg.  
JSI GRIP = 0.26 (H) (INPUT = 0.90)  
JSI METAL = 0.07 (D) (INPUT = 1.00)



Tamarack Roof Truss, Burlington



TOTAL WEIGHT = 6 X 61 = 367 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    |        |
| 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  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TTW+p  | MT20   | 4.0 | 4.0 | 2.25 | 2.00 |
| E  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| F  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| I  | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| J  | BMVW-t | MT20   | 4.0 | 6.0 |      |      |

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

| BEARINGS       | FACTORED       | MAXIMUM FACTORED | INPUT | REQD  |
|----------------|----------------|------------------|-------|-------|
| GROSS REACTION | GROSS REACTION | DOWN             | BRG   | BRG   |
| JT             | VERT           | HORZ             | IN-SX | IN-SX |
| J              | 1250           | 0                | 5-8   | 5-8   |
| H              | 1250           | 0                | 5-8   | 5-8   |

**UNFACTORED REACTIONS**

| 1ST LCASE |          | MAX/MIN COMPONENT REACTIONS |         |           |       |         |       |
|-----------|----------|-----------------------------|---------|-----------|-------|---------|-------|
| JT        | COMBINED | SNOW                        | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |
| J         | 972      | 588 / 0                     | 149 / 0 | 0 / 0     | 0 / 0 | 234 / 0 | 0 / 0 |
| H         | 972      | 588 / 0                     | 149 / 0 | 0 / 0     | 0 / 0 | 234 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) J, 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 | MAX. FACTORED | FACTORED       | VERT. LOAD LC1 | MAX          | MAX          | MEMB. | MAX       | FACTORED |
|--------|---------------|----------------|----------------|--------------|--------------|-------|-----------|----------|
| MEMB.  | FORCE         | VERT. LOAD LC1 | CS1 (LC)       | UNBRAC       | LENGTH FR-TO | MEMB. | FORCE     | MAX      |
| FR-TO  | FROM          | TO             | CS1 (LC)       | LENGTH FR-TO | MEMB.        | FORCE | MAX       | CS1 (LC) |
| A-B    | 0 / 47        | -124.4         | -124.4         | 0.17 (1)     | 10.00        | I-D   | 0 / 574   | 0.13 (1) |
| B-C    | 0 / 28        | -124.4         | -124.4         | 0.24 (1)     | 10.00        | I-E   | -237 / 17 | 0.10 (1) |
| C-D    | -853 / 0      | -124.4         | -124.4         | 0.19 (1)     | 6.25         | C-I   | -237 / 17 | 0.10 (1) |
| D-E    | -853 / 0      | -124.4         | -124.4         | 0.19 (1)     | 6.25         | J-C   | -1196 / 0 | 0.46 (1) |
| E-F    | 0 / 28        | -124.4         | -124.4         | 0.24 (1)     | 10.00        | E-H   | -1196 / 0 | 0.46 (1) |
| F-G    | 0 / 47        | -124.4         | -124.4         | 0.17 (1)     | 10.00        |       |           |          |
| J-B    | -340 / 0      | 0.0            | 0.0            | 0.04 (1)     | 7.81         |       |           |          |
| H-F    | -340 / 0      | 0.0            | 0.0            | 0.04 (1)     | 7.81         |       |           |          |
| J-I    | 0 / 857       | -28.0          | -28.0          | 0.52 (3)     | 10.00        |       |           |          |
| I-H    | 0 / 857       | -28.0          | -28.0          | 0.52 (3)     | 10.00        |       |           |          |

**DESIGN CRITERIA**

SPECIFIED LOADS:  
TOP CH. LL = 34.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 60.3 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 CBC 2012, BCBC 2012, ABC 2014  
- CSA 085-09  
- TPIC 2011

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 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=0.24/1.00 (E-F:1), BC=0.52/1.00 (H-I:3), WB=0.46/1.00 (E-H:1), SS=0.19/1.00 (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 1656

PLATE PLACEMENT TOL = 0.250 inches

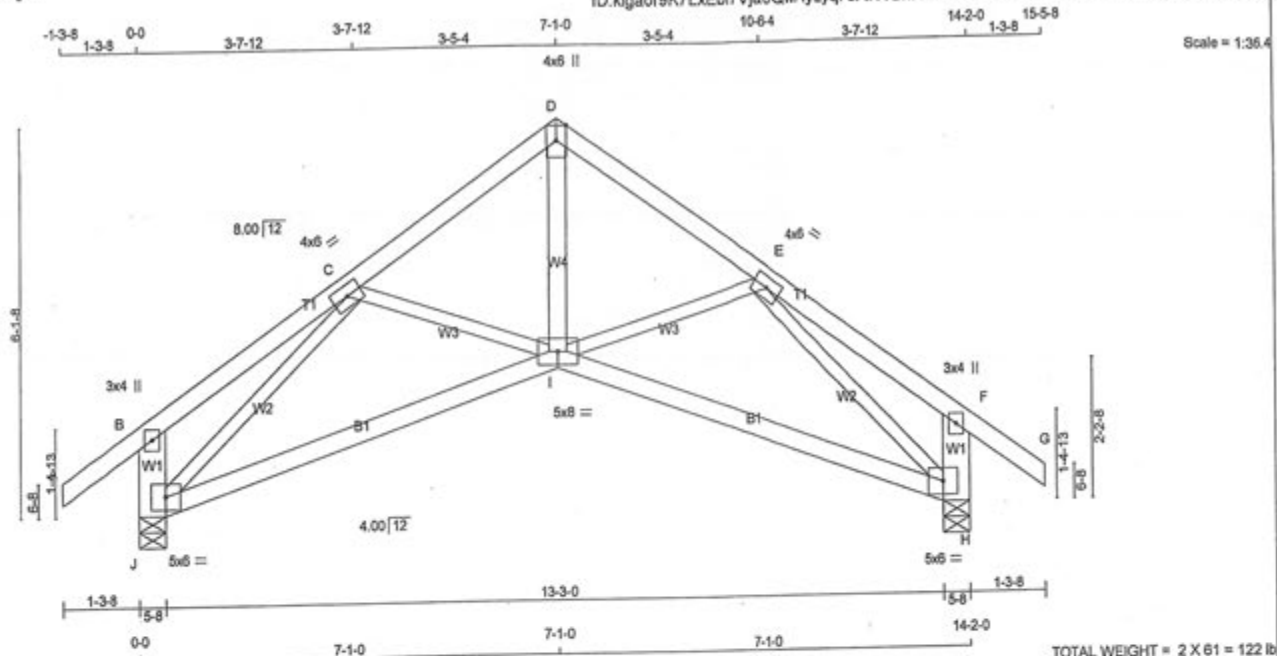
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.89 (E) (INPUT = 0.90)  
JSI METAL= 0.42 (E) (INPUT = 1.00)



DRWG NO. TAM 3664 -12  
STRUCTURAL  
COMPONENT ONLY

Tamarack Roof Truss, Burlington



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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT TYPE | PLATES   | W    | LEN | Y   | X    |
|---------|----------|------|-----|-----|------|
| B       | TMV+p    | MT20 | 3.0 | 4.0 |      |
| C       | TMWW+1   | MT20 | 4.0 | 6.0 |      |
| D       | TTW+p    | MT20 | 4.0 | 6.0 | Edge |
| E       | TMWW+1   | MT20 | 4.0 | 6.0 |      |
| F       | TMV+p    | MT20 | 3.0 | 4.0 |      |
| H       | BVWW+1-p | MT20 | 5.0 | 8.0 |      |
| I       | BBWW+1-p | MT20 | 5.0 | 8.0 |      |
| J       | BVWW+1-p | MT20 | 5.0 | 6.0 |      |

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

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

| BEARINGS |                | FACTORED |      | MAXIMUM FACTORED |      | INPUT |       | REQD  |  |
|----------|----------------|----------|------|------------------|------|-------|-------|-------|--|
| JT       | GROSS REACTION | VERT     | HORZ | DOWN             | HORZ | BRG   | IN-SX | IN-SX |  |
| J        | 1250           | 0        | 0    | 1250             | 0    | 0     | 5-8   | 5-8   |  |
| H        | 1250           | 0        | 0    | 1250             | 0    | 0     | 5-8   | 5-8   |  |

**UNFACTORED REACTIONS**

| 1ST LCASE | MAX MIN. COMPONENT REACTIONS |         |         |           |       |         |       |  |  |
|-----------|------------------------------|---------|---------|-----------|-------|---------|-------|--|--|
| JT        | COMBINED                     | SNOW    | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |  |  |
| J         | 972                          | 588 / 0 | 149 / 0 | 0 / 0     | 0 / 0 | 234 / 0 | 0 / 0 |  |  |
| H         | 972                          | 588 / 0 | 149 / 0 | 0 / 0     | 0 / 0 | 234 / 0 | 0 / 0 |  |  |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.46 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                  | FACTORED         |          | WEBS     |                  | MAX. FACTORED |          |
|--------|------------------|------------------|----------|----------|------------------|---------------|----------|
| MEMB.  | MAX. FORCE (LBS) | VERT. LOAD (PLF) | CS1 (LC) | MEMB.    | MAX. FORCE (LBS) | MAX. CS1 (LC) |          |
| FR-TO  |                  | FROM             | TO       | LENGTH   | FR-TO            |               |          |
| A-B    | 0 / 47           | -124.4           | -124.4   | 0.17 (1) | I-D              | 0 / 1073      | 0.17 (1) |
| B-C    | 0 / 25           | -124.4           | -124.4   | 0.22 (1) | I-E              | -128 / 66     | 0.03 (1) |
| C-D    | -1307 / 0        | -124.4           | -124.4   | 0.19 (1) | C-I              | -128 / 66     | 0.03 (1) |
| D-E    | -1307 / 0        | -124.4           | -124.4   | 0.19 (1) | J-C              | -1688 / 0     | 0.64 (1) |
| E-F    | 0 / 25           | -124.4           | -124.4   | 0.22 (1) | E-H              | -1688 / 0     | 0.64 (1) |
| F-G    | 0 / 47           | -124.4           | -124.4   | 0.17 (1) |                  |               |          |
| J-B    | -346 / 0         | 0.0              | 0.0      | 0.02 (1) |                  |               |          |
| H-F    | -346 / 0         | 0.0              | 0.0      | 0.02 (1) |                  |               |          |
| J-I    | 0 / 1251         | -28.0            | -28.0    | 0.54 (3) |                  |               |          |
| I-H    | 0 / 1251         | -28.0            | -28.0    | 0.54 (3) |                  |               |          |

**DESIGN CRITERIA**

| SPECIFIED LOADS: |            |
|------------------|------------|
| TOP CH. LL       | = 34.8 PSF |
| DL               | = 8.0 PSF  |
| BOT CH. LL       | = 10.5 PSF |
| DL               | = 7.0 PSF  |
| TOTAL LOAD       | = 60.3 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 086-09  
- TPIC 2011

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.47")  
CALCULATED VERT. DEFL.(LL) = L/910 (0.19")  
ALLOWABLE DEFL.(TL)= L/360 (0.47")  
CALCULATED VERT. DEFL.(TL) = L/543 (0.31")

CS1: TC=0.22/1.00 (E-F:1), BC=0.54/1.00 (I-J:3), WB=0.64/1.00 (E-H:1), SS1=0.17/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

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

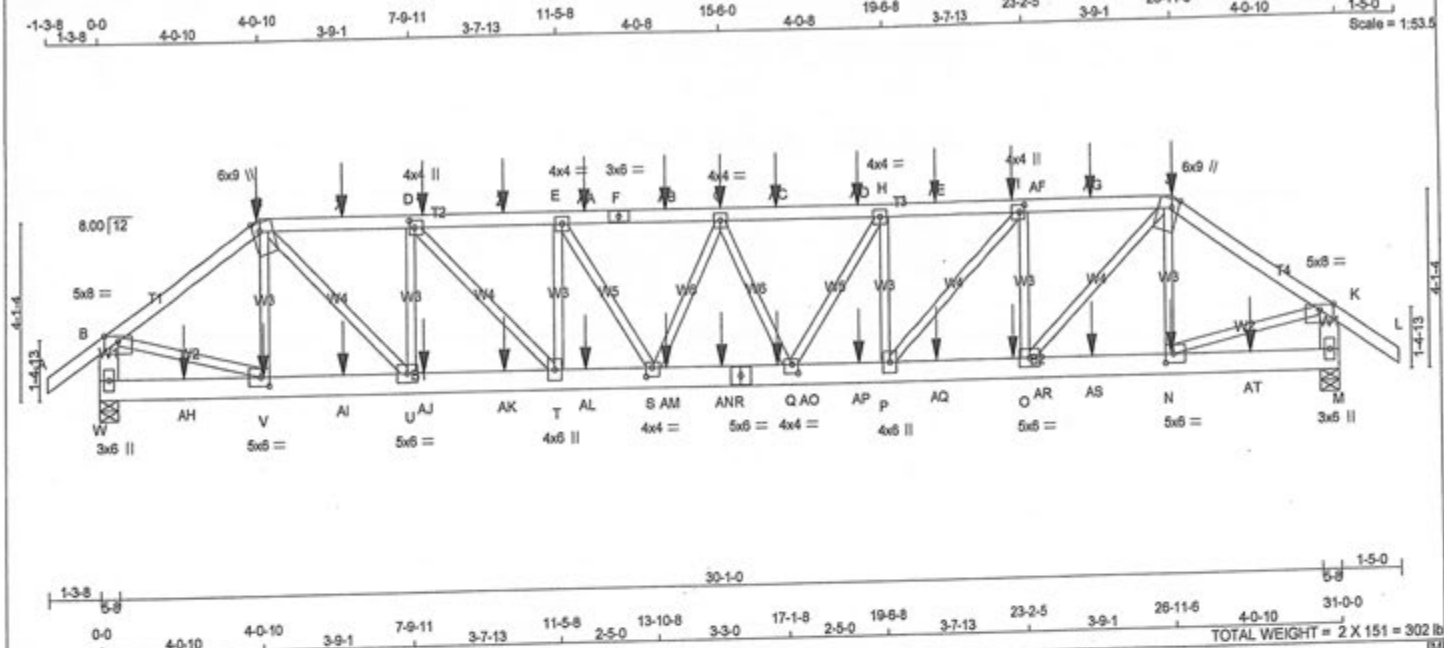
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (J) (INPUT = 0.90)  
JSI METAL= 0.39 (E) (INPUT = 1.00)



DWG NO. TAM3665-13  
STRUCTURAL  
COMPONENT ONLY



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

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD (PLF)   |
|------------------------------------------|----------------------|--------------|
| TOP CHORDS : (0.122'x3") SPIRAL NAILS    |                      |              |
| A - C                                    | 12                   | SIDE (81.0)  |
| C - F                                    | 12                   | SIDE (81.0)  |
| F - J                                    | 12                   | SIDE (81.0)  |
| J - L                                    | 12                   | SIDE (81.0)  |
| W - B                                    | 2                    | TOP          |
| M - K                                    | 2                    | TOP          |
| BOTTOM CHORDS : (0.122'x3") SPIRAL NAILS |                      |              |
| W - R                                    | 2                    | SIDE (183.1) |
| R - M                                    | 2                    | SIDE (183.1) |
| WEBS : (0.122'x3") SPIRAL NAILS          |                      |              |
| V - C                                    | 1                    | SIDE (20.3)  |
| N - J                                    | 1                    | SIDE (20.3)  |
| 2x3                                      | 1                    | 6            |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PILES 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 TMWV-p                    | MT20   | 5.0 | 8.0 | Edge      |
| C TWWV+m                    | MT20   | 6.0 | 9.0 | Edge 2.00 |
| D TMWV+I                    | MT20   | 4.0 | 4.0 | 2.00 1.50 |
| E, G, H                     |        |     |     |           |
| E TMWV+I                    | MT20   | 4.0 | 4.0 |           |
| F TS-I                      | MT20   | 3.0 | 6.0 |           |
| I TMWV+I                    | MT20   | 4.0 | 4.0 | 2.00 1.50 |
| J TWWV+m                    | MT20   | 6.0 | 9.0 | Edge 2.00 |
| K TMWV-p                    | MT20   | 5.0 | 8.0 | Edge      |
| M BMV1+p                    | MT20   | 3.0 | 6.0 |           |
| N BMWV-I                    | MT20   | 5.0 | 6.0 | 2.50 2.50 |
| O BMWV-I                    | MT20   | 5.0 | 6.0 |           |
| P BMWV+I                    | MT20   | 4.0 | 6.0 |           |
| Q BMWV+I                    | MT20   | 4.0 | 4.0 | 2.50 1.75 |
| R BS-I                      | MT20   | 5.0 | 6.0 |           |
| S BMWV-I                    | MT20   | 4.0 | 4.0 | 2.50 1.75 |
| T BMWV+I                    | 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 |       | REQRD BRG |  |
| JT                                                                                            | VERT     | HORZ                          | DOWN                            | HORZ       | UPLIFT | IN-SX     | IN-SX |           |  |
| W                                                                                             | 4201     | 0                             | 4201                            | 0          | 0      | 5-8       | 5-8   |           |  |
| M                                                                                             | 4217     | 0                             | 4217                            | 0          | 0      | 5-8       | 5-8   |           |  |
| UNFACTORED REACTIONS                                                                          |          |                               |                                 |            |        |           |       |           |  |
| 1ST LCASE                                                                                     |          | MAX. MIN. COMPONENT REACTIONS |                                 |            |        |           |       |           |  |
| JT                                                                                            | COMBINED | SNOW                          | LIVE                            | PERM. LIVE | WIND   | DEAD      | SOIL  |           |  |
| W                                                                                             | 3304     | 1934 / 0                      | 550 / 0                         | 0 / 0      | 0 / 0  | 819 / 0   | 0 / 0 |           |  |
| M                                                                                             | 3315     | 1943 / 0                      | 550 / 0                         | 0 / 0      | 0 / 0  | 821 / 0   | 0 / 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 = 3.03 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED         |           | MAX. FACTORED |                      | WEBS  |             | MAX. FACTORED |  |
|--------|-------------|------------------|-----------|---------------|----------------------|-------|-------------|---------------|--|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | LC1 (PLF) | MAX. CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | FORCE (LBS) | MAX. CSI (LC) |  |
| FR-TO  |             | FROM             | TO        |               |                      | FR-TO |             |               |  |
| A-B    | 0 / 47      | -124.4           | -124.4    | 0.09 (1)      | 10.00                | V-C   | -760 / 0    | 0.10 (1)      |  |
| B-C    | -4906 / 0   | -124.4           | -124.4    | 0.31 (1)      | 4.09                 | C-U   | 0 / 3455    | 0.43 (1)      |  |
| C-X    | -6509 / 0   | -124.4           | -124.4    | 0.36 (1)      | 3.55                 | U-D   | -2261 / 0   | 0.29 (1)      |  |
| X-D    | -6509 / 0   | -124.4           | -124.4    | 0.36 (1)      | 3.55                 | D-T   | 0 / 2067    | 0.26 (1)      |  |
| D-Y    | -7956 / 0   | -124.4           | -124.4    | 0.44 (1)      | 3.16                 | T-E   | -1345 / 0   | 0.17 (1)      |  |
| Y-Z    | -7956 / 0   | -124.4           | -124.4    | 0.44 (1)      | 3.16                 | E-S   | 0 / 718     | 0.09 (1)      |  |
| Z-E    | -7956 / 0   | -124.4           | -124.4    | 0.44 (1)      | 3.16                 | S-G   | -514 / 0    | 0.08 (1)      |  |
| E-AA   | -8333 / 0   | -124.4           | -124.4    | 0.51 (1)      | 3.03                 | G-Q   | -514 / 0    | 0.08 (1)      |  |
| AA-F   | -8333 / 0   | -124.4           | -124.4    | 0.51 (1)      | 3.03                 | Q-H   | 0 / 718     | 0.09 (1)      |  |
| F-AB   | -8333 / 0   | -124.4           | -124.4    | 0.51 (1)      | 3.03                 | P-H   | -1345 / 0   | 0.17 (1)      |  |
| AB-G   | -8333 / 0   | -124.4           | -124.4    | 0.51 (1)      | 3.03                 | P-I   | 0 / 2067    | 0.26 (1)      |  |
| G-AC   | -8333 / 0   | -124.4           | -124.4    | 0.51 (1)      | 3.03                 | O-J   | -2261 / 0   | 0.29 (1)      |  |
| AC-AD  | -8333 / 0   | -124.4           | -124.4    | 0.51 (1)      | 3.03                 | O-J   | 0 / 3455    | 0.43 (1)      |  |
| AD-H   | -8333 / 0   | -124.4           | -124.4    | 0.51 (1)      | 3.03                 | N-J   | -760 / 0    | 0.10 (1)      |  |
| H-AE   | -7956 / 0   | -124.4           | -124.4    | 0.44 (1)      | 3.16                 | B-V   | 0 / 4190    | 0.52 (1)      |  |
| AE-AF  | -7956 / 0   | -124.4           | -124.4    | 0.44 (1)      | 3.16                 | N-K   | 0 / 4190    | 0.52 (1)      |  |
| AF-I   | -7956 / 0   | -124.4           | -124.4    | 0.44 (1)      | 3.16                 |       |             |               |  |
| I-AG   | -6509 / 0   | -124.4           | -124.4    | 0.36 (1)      | 3.55                 |       |             |               |  |
| AG-J   | -6509 / 0   | -124.4           | -124.4    | 0.36 (1)      | 3.55                 |       |             |               |  |
| J-K    | -4906 / 0   | -124.4           | -124.4    | 0.31 (1)      | 4.09                 |       |             |               |  |
| K-L    | 0 / 52      | -124.4           | -124.4    | 0.11 (1)      | 10.00                |       |             |               |  |
| W-B    | -4131 / 0   | 0.0              | 0.0       | 0.15 (1)      | 7.02                 |       |             |               |  |
| M-K    | -4146 / 0   | 0.0              | 0.0       | 0.15 (1)      | 7.00                 |       |             |               |  |
| W-AH   | 0 / 0       | -28.0            | -28.0     | 0.05 (3)      | 10.00                |       |             |               |  |
| AH-V   | 0 / 0       | -28.0            | -28.0     | 0.05 (3)      | 10.00                |       |             |               |  |
| V-AJ   | 0 / 4054    | -28.0            | -28.0     | 0.30 (1)      | 10.00                |       |             |               |  |
| AJ-U   | 0 / 4054    | -28.0            | -28.0     | 0.30 (1)      | 10.00                |       |             |               |  |
| U-AJ   | 0 / 6510    | -28.0            | -28.0     | 0.48 (1)      | 10.00                |       |             |               |  |
| AJ-AK  | 0 / 6510    | -28.0            | -28.0     | 0.48 (1)      | 10.00                |       |             |               |  |
| AK-T   | 0 / 7956    | -28.0            | -28.0     | 0.57 (1)      | 10.00                |       |             |               |  |
| T-AL   | 0 / 7956    | -28.0            | -28.0     | 0.57 (1)      | 10.00                |       |             |               |  |
| AL-S   | 0 / 8550    | -28.0            | -28.0     | 0.63 (1)      | 10.00                |       |             |               |  |
| S-AM   | 0 / 8550    | -28.0            | -28.0     | 0.63 (1)      | 10.00                |       |             |               |  |
| AM-AN  | 0 / 8550    | -28.0            | -28.0     | 0.63 (1)      | 10.00                |       |             |               |  |
| AN-R   | 0 / 8550    | -28.0            | -28.0     | 0.63 (1)      | 10.00                |       |             |               |  |
| R-AO   | 0 / 8550    | -28.0            | -28.0     | 0.63 (1)      | 10.00                |       |             |               |  |
| AO-Q   | 0 / 8550    | -28.0            | -28.0     | 0.63 (1)      | 10.00                |       |             |               |  |
| Q-AP   | 0 / 7956    | -28.0            | -28.0     | 0.57 (1)      | 10.00                |       |             |               |  |
| AP-P   | 0 / 7956    | -28.0            | -28.0     | 0.57 (1)      | 10.00                |       |             |               |  |

\*\*\* 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 = 34.8 PSF |
|                  | DL = 8.0 PSF  |
| BOT CH.          | LL = 10.5 PSF |
|                  | DL = 7.0 PSF  |
| TOTAL LOAD       | = 60.3 PSF    |

SPACING = 24.0 IN. C/C

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

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

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

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

(55% OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.03")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.23")  
ALLOWABLE DEFL. (TL) = L/360 (1.03")  
CALCULATED VERT. DEFL. (TL) = L/963 (0.39")

CSI: TC=0.51/1.00 (E-G-1), BC=0.63/1.00 (Q-S-1), WB=0.52/1.00 (B-V-1), SSI=0.18/1.00 (H-1-1)

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)              |
| MT20        | 618        | 354   | 1687 822 2284 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (C) (INPUT = 0.90)  
JSI METAL= 0.71 (R) (INPUT = 1.00)

DWG NO. T20 3668-18  
STRUCTURAL  
COMPONENT ONLY

CONTINUED ON PAGE 2



Tamarack Roof Truss, Burlington

# **PLATES (table is in inches)**

| JT TYPE  | PLATES | W   | LEN | Y    | X    |
|----------|--------|-----|-----|------|------|
| U BMWW-I | MT20   | 5.0 | 6.0 |      |      |
| V BMWW-I | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| W BMV1+p | MT20   | 3.0 | 6.0 |      |      |

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

## **HANGERS NOTES**

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 545.6 lbs FACTORED DOWN AT 26-11-5, 545.6 lbs FACTORED DOWN AT 4-0-11, 149.7 lbs FACTORED DOWN AT 6-1-6, 149.7 lbs FACTORED DOWN AT 8-1-6, 149.7 lbs FACTORED DOWN AT 10-1-6, 149.7 lbs FACTORED DOWN AT 12-1-6, 149.7 lbs FACTORED DOWN AT 14-1-6, 149.7 lbs FACTORED DOWN AT 15-6-0, 149.7 lbs FACTORED DOWN AT 16-10-10, 149.7 lbs FACTORED DOWN AT 18-10-10, 149.7 lbs FACTORED DOWN AT 20-10-10, AND 149.7 lbs FACTORED DOWN AT 22-10-10, AND 149.7 lbs FACTORED DOWN AT 24-10-10 ON TOP CHORD, AND 69.9 lbs FACTORED DOWN AT 2-1-6, 69.9 lbs FACTORED DOWN AT 4-1-6, 69.9 lbs FACTORED DOWN AT 6-1-6, 69.9 lbs FACTORED DOWN AT 8-1-6, 69.9 lbs FACTORED DOWN AT 10-1-6, 69.9 lbs FACTORED DOWN AT 12-1-6, 69.9 lbs FACTORED DOWN AT 14-1-6, 69.9 lbs FACTORED DOWN AT 15-6-0, 69.9 lbs FACTORED DOWN AT 16-10-10, 69.9 lbs FACTORED DOWN AT 18-10-10, 69.9 lbs FACTORED DOWN AT 20-10-10, 69.9 lbs FACTORED DOWN AT 22-10-10, 69.9 lbs FACTORED DOWN AT 24-10-10, AND 69.9 lbs FACTORED DOWN AT 26-10-10, AND 69.9 lbs FACTORED DOWN AT 28-10-10 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

## **LOADING**

TOTAL LOAD CASES: (4)

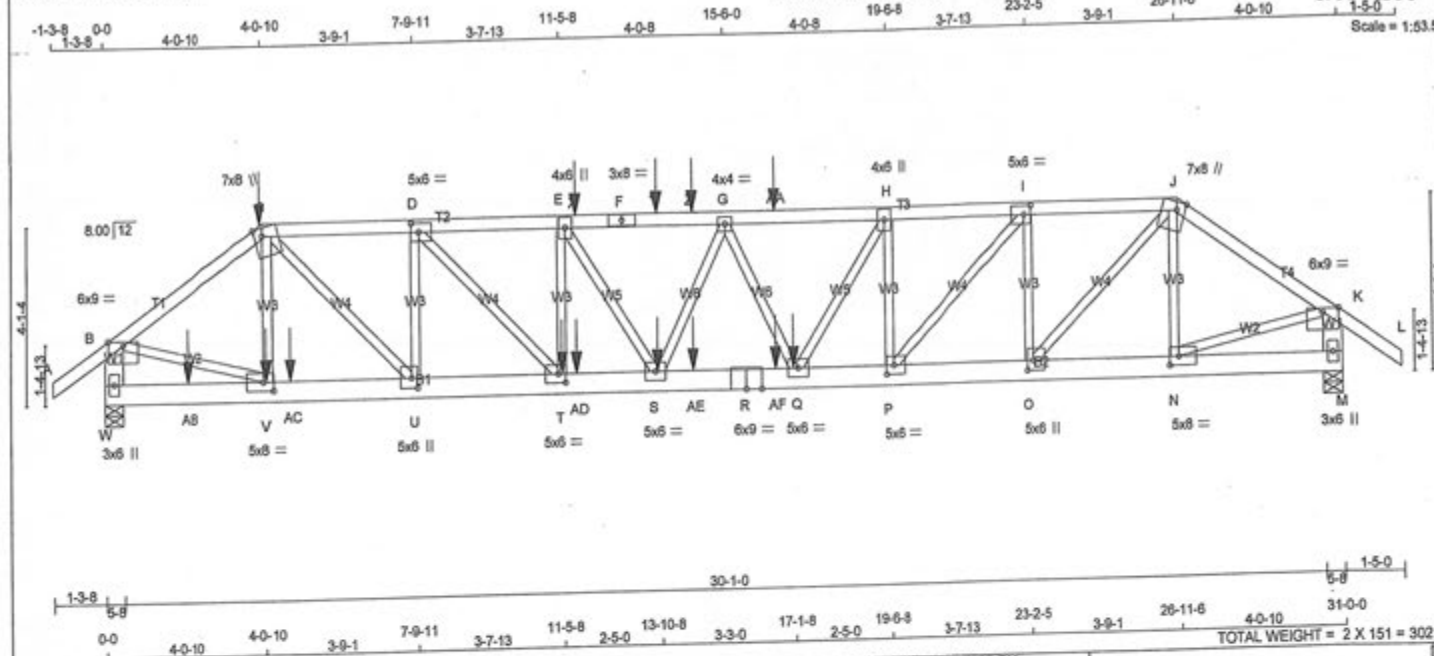
| CHORDS |                           |                           |               | WEBS                      |       |                           |               |
|--------|---------------------------|---------------------------|---------------|---------------------------|-------|---------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX. (LC) | MAX. UNBRAC. LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
| FR-TO  |                           | FROM                      | TO            |                           |       |                           |               |
| P-AQ   | 0 / 6510                  | -28.0                     | -28.0         | 0.48 (1)                  | 10.00 |                           |               |
| AQ-AR  | 0 / 6510                  | -28.0                     | -28.0         | 0.48 (1)                  | 10.00 |                           |               |
| AR-O   | 0 / 6510                  | -28.0                     | -28.0         | 0.48 (1)                  | 10.00 |                           |               |
| O-AS   | 0 / 4054                  | -28.0                     | -28.0         | 0.30 (1)                  | 10.00 |                           |               |
| AS-N   | 0 / 4054                  | -28.0                     | -28.0         | 0.30 (1)                  | 10.00 |                           |               |
| N-AT   | 0 / 0                     | -28.0                     | -28.0         | 0.05 (3)                  | 10.00 |                           |               |
| AT-M   | 0 / 0                     | -28.0                     | -28.0         | 0.05 (3)                  | 10.00 |                           |               |

## **FACTORED CONCENTRATED LOADS (LBS)**

| JT | LOC.     | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  |
|----|----------|------|------|------|-------|------|-------|
| C  | 4-0-11   | -63  | -70  | —    | FRONT | VERT | DEAD  |
| C  | 4-0-11   | -159 | -159 | —    | FRONT | VERT | TOTAL |
| C  | 4-0-11   | -324 | -324 | —    | FRONT | VERT | SNOW  |
| G  | 15-6-0   | -150 | -150 | —    | FRONT | VERT | TOTAL |
| J  | 26-11-5  | -63  | -70  | —    | FRONT | VERT | DEAD  |
| J  | 26-11-5  | -159 | -159 | —    | FRONT | VERT | TOTAL |
| J  | 26-11-5  | -324 | -324 | —    | FRONT | VERT | SNOW  |
| N  | 26-10-10 | -40  | -70  | —    | FRONT | VERT | TOTAL |
| V  | 4-1-6    | -40  | -70  | —    | FRONT | VERT | TOTAL |
| X  | 6-1-6    | -150 | -150 | —    | FRONT | VERT | TOTAL |
| Y  | 8-1-6    | -150 | -150 | —    | FRONT | VERT | TOTAL |
| Z  | 10-1-6   | -150 | -150 | —    | FRONT | VERT | TOTAL |
| AA | 12-1-6   | -150 | -150 | —    | FRONT | VERT | TOTAL |
| AB | 14-1-6   | -150 | -150 | —    | FRONT | VERT | TOTAL |
| AC | 16-10-10 | -150 | -150 | —    | FRONT | VERT | TOTAL |
| AD | 18-10-10 | -150 | -150 | —    | FRONT | VERT | TOTAL |
| AE | 20-10-10 | -150 | -150 | —    | FRONT | VERT | TOTAL |
| AF | 22-10-10 | -150 | -150 | —    | FRONT | VERT | TOTAL |
| AG | 24-10-10 | -150 | -150 | —    | FRONT | VERT | TOTAL |
| AH | 2-1-6    | -40  | -70  | —    | FRONT | VERT | TOTAL |
| AI | 6-1-6    | -40  | -70  | —    | FRONT | VERT | TOTAL |
| AJ | 8-1-6    | -40  | -70  | —    | FRONT | VERT | TOTAL |
| AK | 10-1-6   | -40  | -70  | —    | FRONT | VERT | TOTAL |
| AL | 12-1-6   | -40  | -70  | —    | FRONT | VERT | TOTAL |
| AM | 14-1-6   | -40  | -70  | —    | FRONT | VERT | TOTAL |
| AN | 15-6-0   | -40  | -70  | —    | FRONT | VERT | TOTAL |
| AO | 16-10-10 | -40  | -70  | —    | FRONT | VERT | TOTAL |
| AP | 18-10-10 | -40  | -70  | —    | FRONT | VERT | TOTAL |
| AQ | 20-10-10 | -40  | -70  | —    | FRONT | VERT | TOTAL |
| AR | 22-10-10 | -40  | -70  | —    | FRONT | VERT | TOTAL |
| AS | 24-10-10 | -40  | -70  | —    | FRONT | VERT | TOTAL |
| AT | 26-10-10 | -40  | -70  | —    | FRONT | VERT | TOTAL |



DRWG NO. TAM 3668-1B  
STRUCTURAL  
COMPONENT ONLY



**LUMBER**

N. L. G. A. RULES

| CHORDS          | SIZE | DRY | LUMBER | DESCR. |
|-----------------|------|-----|--------|--------|
| A - C           | 2x4  | DRY | No.2   | SPF    |
| C - F           | 2x4  | DRY | No.2   | SPF    |
| F - J           | 2x4  | 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    |
| R - M           | 2x6  | DRY | No.2   | SPF    |
| ALL WEBS EXCEPT | 2x3  | DRY | No.2   | SPF    |

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD (PLF)  |
|------------------------------------------|----------------------|-------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |             |
| A-C                                      | 12                   | SIDE(61.0)  |
| C-F                                      | 12                   | SIDE(61.0)  |
| F-J                                      | 12                   | SIDE(0.0)   |
| J-L                                      | 12                   | TOP         |
| W-B                                      | 12                   | TOP         |
| M-K                                      | 12                   | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| W-R                                      | 12                   | SIDE(183.1) |
| R-M                                      | 12                   | SIDE(0.0)   |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| 2x3                                      | 6                    | SIDE(93.2)  |
| E-T                                      | 6                    |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

**PLATES (table is in inches)**

| JT TYPE  | PLATES | W   | LEN | Y    | X    |
|----------|--------|-----|-----|------|------|
| B TMWV-p | MT20   | 6.0 | 9.0 | Edge | 2.50 |
| C TTWW+m | MT20   | 7.0 | 8.0 | Edge | 2.50 |
| D TMWV-1 | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| E TMWV+1 | MT20   | 4.0 | 6.0 |      |      |
| F TS-t   |        | 3.0 | 8.0 |      |      |
| G TMWV-1 | MT20   | 4.0 | 4.0 |      |      |
| H TMWV+1 | MT20   | 4.0 | 6.0 |      |      |
| I TMWV-1 | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| J TTWW+m | MT20   | 7.0 | 8.0 | Edge | 2.50 |
| K TMWV-p | MT20   | 6.0 | 9.0 | Edge |      |
| M BMV1+p | MT20   | 3.0 | 6.0 |      |      |
| N BMWV-1 | MT20   | 5.0 | 8.0 | 2.50 | 2.75 |
| O BMWV+1 | MT20   | 5.0 | 6.0 | 2.75 | 1.75 |
| P BMWV-1 | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| Q BMWV-1 | MT20   | 5.0 | 6.0 |      |      |
| R BS-t   |        | 6.0 | 9.0 |      |      |
| S BMWV-1 | MT20   | 5.0 | 6.0 |      |      |
| T BMWV-1 | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |

**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  | 5855                    | 5855                            | 5-8             | 5-8            |
| W HORZ   | 0                       | 0                               | 5-8             | 5-8            |
| M UPLIFT | 4531                    | 4531                            | 5-8             | 5-8            |

**UNFACTORED REACTIONS**

|             | 1ST LCASE | MAX/MIN | COMPONENT REACTIONS |
|-------------|-----------|---------|---------------------|
| JT COMBINED | 2754 / 0  | 694 / 0 | PERM.LIVE 0 / 0     |
| W SNOW      | 2114 / 0  | 554 / 0 | WIND 0 / 0          |
| M LIVE      |           |         | DEAD 1102 / 0       |
|             |           |         | SOIL 863 / 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 = 2.15 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED LC1 (LBS) | MAX. FACTORED LC2 (LBS) | MEMB. LENGTH FR-TO | WEBS MAX. FACTORED FORCE (LBS) |                         |
|-------|----------------------------------|---------------------------|-------------------------|-------------------------|--------------------|--------------------------------|-------------------------|
|       |                                  |                           |                         |                         |                    | MAX. FACTORED FORCE (LBS)      | MAX. FACTORED LC1 (LBS) |
| FR-TO |                                  |                           |                         |                         |                    |                                |                         |
| A-B   | 0 / 47                           | -124.4                    | -124.4                  | 0.09 (1)                | 10.00              | V-C                            | -290 / 88               |
| B-C   | -7130 / 0                        | -124.4                    | -124.4                  | 0.43 (1)                | 3.38               | C-U                            | 0 / 4584                |
| C-D   | -9173 / 0                        | -124.4                    | -124.4                  | 0.47 (1)                | 2.94               | U-D                            | -2894 / 0               |
| D-E   | -11570 / 0                       | -124.4                    | -124.4                  | 0.65 (1)                | 2.42               | D-T                            | 0 / 3426                |
| E-X   | -12036 / 0                       | -124.4                    | -124.4                  | 0.85 (1)                | 2.15               | T-E                            | -1436 / 0               |
| X-F   | -12036 / 0                       | -124.4                    | -124.4                  | 0.85 (1)                | 2.15               | E-S                            | 0 / 887                 |
| F-Y   | -12036 / 0                       | -124.4                    | -124.4                  | 0.85 (1)                | 2.15               | S-G                            | -501 / 0                |
| Y-Z   | -12036 / 0                       | -124.4                    | -124.4                  | 0.85 (1)                | 2.15               | G-Q                            | -504 / 0                |
| Z-G   | -12036 / 0                       | -124.4                    | -124.4                  | 0.85 (1)                | 2.15               | Q-H                            | 0 / 2612                |
| G-AA  | -12035 / 0                       | -124.4                    | -124.4                  | 0.85 (1)                | 2.15               | H-P                            | -2676 / 0               |
| AA-H  | -12035 / 0                       | -124.4                    | -124.4                  | 0.85 (1)                | 2.15               | P-I                            | 0 / 3999                |
| H-I   | -10961 / 0                       | -124.4                    | -124.4                  | 0.57 (1)                | 2.62               | I-O                            | -3337 / 0               |
| I-J   | -7871 / 0                        | -124.4                    | -124.4                  | 0.37 (1)                | 3.26               | O-J                            | 0 / 4858                |
| J-K   | -5350 / 0                        | -124.4                    | -124.4                  | 0.33 (1)                | 3.92               | N-J                            | -916 / 0                |
| K-L   | 0 / 52                           | -124.4                    | -124.4                  | 0.11 (1)                | 10.00              | B-V                            | 0 / 6090                |
| W-B   | -5812 / 0                        | 0.0                       | 0.0                     | 0.21 (1)                | 6.12               | N-K                            | 0 / 4569                |
| M-K   | -4482 / 0                        | 0.0                       | 0.0                     | 0.16 (1)                | 6.79               |                                |                         |

**FACTORED CONCENTRATED LOADS (LBS)**

| JT | LOC.   | LC1   | MAX-  | MAX+ | FACE  | DIR  | TYPE  |
|----|--------|-------|-------|------|-------|------|-------|
| C  | 4-0-11 | -63   | -70   | ---  | FRONT | VERT | DEAD  |
| C  | 4-0-11 | -159  | -159  | ---  | BACK  | VERT | TOTAL |
| C  | 4-0-11 | -324  | -324  | ---  | FRONT | VERT | SNOW  |
| Q  | 17-1-8 | -1803 | -1803 | ---  | BACK  | VERT | TOTAL |



**DESIGN CRITERIA**

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

**SPECIFIED LOADS:**

|            |    |        |     |
|------------|----|--------|-----|
| TOP CH.    | LL | = 34.8 | PSF |
|            | DL | = 8.0  | PSF |
| BOT CH.    | LL | = 10.5 | PSF |
|            | DL | = 7.0  | PSF |
| TOTAL LOAD |    | = 60.3 | 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, CBC 2012, ABC 2014  
- CSA 085-09  
- TPIC 2011

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.03")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.33")  
ALLOWABLE DEFL.(TL) = L/360 (1.03")  
CALCULATED VERT. DEFL.(TL) = L/685 (0.54")

CSI: TC=0.85/1.00 (E-G-1), BC=0.92/1.00 (Q-S-1),  
WB=0.75/1.00 (B-V-1), SS=0.32/1.00 (U-V-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 (PSI) | SECTION (PLI) |
|-------|-----------|-------------|---------------|
| MT20  | 618       | 354         | 1667          |
|       | 822       | 2284        | 1656          |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (I) (INPUT = 0.90)  
JSI METAL= 0.85 (R) (INPUT = 1.00)

Tamarack Roof Truss, Burlington

**PLATES (table is in inches)**

| JT TYPE  | PLATES | W   | LEN | Y    | X    |
|----------|--------|-----|-----|------|------|
| U BMWW-t | MT20   | 5.0 | 6.0 | 2.75 | 1.75 |
| V BMWW-t | MT20   | 5.0 | 8.0 | 2.50 | 2.75 |
| W BMVt+p | MT20   | 3.0 | 6.0 |      |      |

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

**HANGERS NOTES**

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 388.5 lbs FACTORED DOWN AT 4-0-11, 159.1 lbs FACTORED DOWN AT 4-0-11, 149.7 lbs FACTORED DOWN AT 11-9-12, 149.7 lbs FACTORED DOWN AT 13-9-12, AND 149.7 lbs FACTORED DOWN AT 14-8-4, AND 149.7 lbs FACTORED DOWN AT 16-8-4 ON TOP CHORD, AND 69.9 lbs FACTORED DOWN AT 2-1-6, 69.9 lbs FACTORED DOWN AT 4-1-6, 1059.1 lbs FACTORED DOWN AT 4-8-8, 1059.1 lbs FACTORED DOWN AT 11-5-8, 69.9 lbs FACTORED DOWN AT 11-9-12, 69.9 lbs FACTORED DOWN AT 13-9-12, 69.9 lbs FACTORED DOWN AT 14-8-4, AND 69.9 lbs FACTORED DOWN AT 16-8-4, AND 1802.8 lbs FACTORED DOWN AT 17-1-8 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  |
|----|---------|-------|-------|------|------|------|-------|
| S  | 13-9-12 | -40   | -70   | ---  | BACK | VERT | TOTAL |
| T  | 11-5-8  | -1059 | -1059 | ---  | BACK | VERT | TOTAL |
| V  | 4-1-6   | -40   | -70   | ---  | BACK | VERT | TOTAL |
| X  | 11-9-12 | -150  | -150  | ---  | BACK | VERT | TOTAL |
| Y  | 13-9-12 | -150  | -150  | ---  | BACK | VERT | TOTAL |
| Z  | 14-8-4  | -150  | -150  | ---  | BACK | VERT | TOTAL |
| AA | 16-8-4  | -150  | -150  | ---  | BACK | VERT | TOTAL |
| AB | 2-1-6   | -40   | -70   | ---  | BACK | VERT | TOTAL |
| AC | 4-8-8   | -1059 | -1059 | ---  | BACK | VERT | TOTAL |
| AD | 11-9-12 | -40   | -70   | ---  | BACK | VERT | TOTAL |
| AE | 14-8-4  | -40   | -70   | ---  | BACK | VERT | TOTAL |
| AF | 16-8-4  | -40   | -70   | ---  | BACK | VERT | TOTAL |

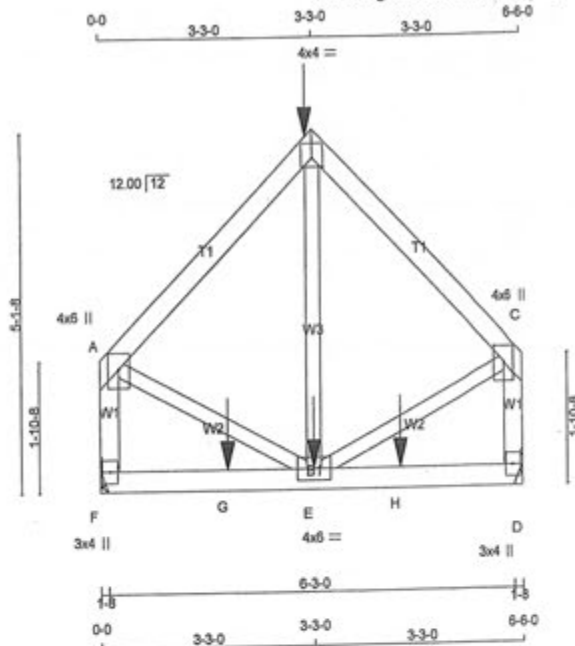


DWG NO. TAM 3669-18  
STRUCTURAL  
COMPONENT ONLY



Tamarack Roof Truss, Burlington

ID: 0ZcSglv6tSoOCxbWmkJm6yLxnt-IU8hprAGilP2R9MqVZzW5e8bQm\_?ZwMPksLsfzv9Y2



Scale = 1:33.1

TOTAL WEIGHT = 31 lb

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| A  | TMVW+p | MT20   | 4.0 | 6.0 | 2.75 | 2.00 |
| B  | TTW+p  | MT20   | 4.0 | 4.0 | 1.50 | 2.00 |
| C  | TMVW+p | MT20   | 4.0 | 6.0 | 2.75 | 2.00 |
| D  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| E  | BMVWVH | MT20   | 4.0 | 6.0 |      |      |
| F  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

**HANGERS NOTES**

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 258.7 lbs FACTORED DOWN AT 3-3-0 ON TOP CHORD, AND 23.5 lbs FACTORED DOWN AT 1-11-4, AND 30.6 lbs FACTORED DOWN AT 3-3-0, AND 23.5 lbs FACTORED DOWN AT 4-6-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

| BEARINGS |     | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG |       | REQD BRG |       |
|----------|-----|-------------------------|------|---------------------------------|------|-----------|-------|----------|-------|
| JT       |     | VERT                    | HORZ | DOWN                            | HORZ | IN-SX     | IN-SX | IN-SX    | IN-SX |
| F        | 638 | 0                       | 0    | 638                             | 0    | 0         | 0     | 0        | 0     |
| D        | 638 | 0                       | 0    | 638                             | 0    | 0         | 0     | 0        | 0     |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | MAX MIN | COMPONENT REACTIONS |          |       |         |       |  |  |
|----|-----------|---------|---------------------|----------|-------|---------|-------|--|--|
|    | COMBINED  | SNOW    | LIVE                | PERMLIVE | WIND  | DEAD    | SOIL  |  |  |
| F  | 505       | 282 / 0 | 89 / 0              | 0 / 0    | 0 / 0 | 124 / 0 | 0 / 0 |  |  |
| D  | 505       | 282 / 0 | 89 / 0              | 0 / 0    | 0 / 0 | 124 / 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) | LC1    | MAX. CS1 (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |  |
| FR-TO  |                           | FROM                      | TO     |               |                    | FR-TO |                           |               |  |
| A-B    | -384 / 0                  | -124.4                    | -124.4 | 0.25 (1)      | 6.25               | E-B   | -119 / 143                | 0.05 (1)      |  |
| B-C    | -384 / 0                  | -124.4                    | -124.4 | 0.25 (1)      | 6.25               | A-E   | 0 / 299                   | 0.07 (1)      |  |
| F-A    | -600 / 0                  | 0.0                       | 0.0    | 0.07 (1)      | 7.81               | E-C   | 0 / 299                   | 0.07 (1)      |  |
| D-C    | -600 / 0                  | 0.0                       | 0.0    | 0.07 (1)      | 7.81               |       |                           |               |  |
|        |                           |                           |        |               |                    |       |                           |               |  |
| F-G    | 0 / 0                     | -28.0                     | -28.0  | 0.12 (3)      | 10.00              |       |                           |               |  |
| G-E    | 0 / 0                     | -28.0                     | -28.0  | 0.12 (3)      | 10.00              |       |                           |               |  |
| E-H    | 0 / 0                     | -28.0                     | -28.0  | 0.12 (3)      | 10.00              |       |                           |               |  |
| H-D    | 0 / 0                     | -28.0                     | -28.0  | 0.12 (3)      | 10.00              |       |                           |               |  |

**FACTORED CONCENTRATED LOADS (LBS)**

| JT | LOC.   | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  |
|----|--------|------|------|------|------|------|-------|
| B  | 3-3-0  | -257 | -257 | —    | BACK | VERT | TOTAL |
| E  | 3-3-0  | -18  | -31  | —    | BACK | VERT | TOTAL |
| G  | 1-11-4 | -5   | -23  | —    | BACK | VERT | TOTAL |
| H  | 4-6-12 | -5   | -23  | —    | BACK | VERT | TOTAL |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 34.8 | PSF |
|            | DL | = | 8.0  | PSF |
| BOT CH.    | LL | = | 10.5 | PSF |
|            | DL | = | 7.0  | PSF |
| TOTAL LOAD |    | = | 60.3 | 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

(55 % OF 48.1 F.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.22")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL)= L/360 (0.22")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CS1: TC=0.25/1.00 (B-C:1), BC=0.12/1.00 (E-F:3), WB=0.07/1.00 (A-E:1), SS=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 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)   |
| MT20  | 618       | 354   | 1667    |
|       | 822       | 2284  | 1656    |

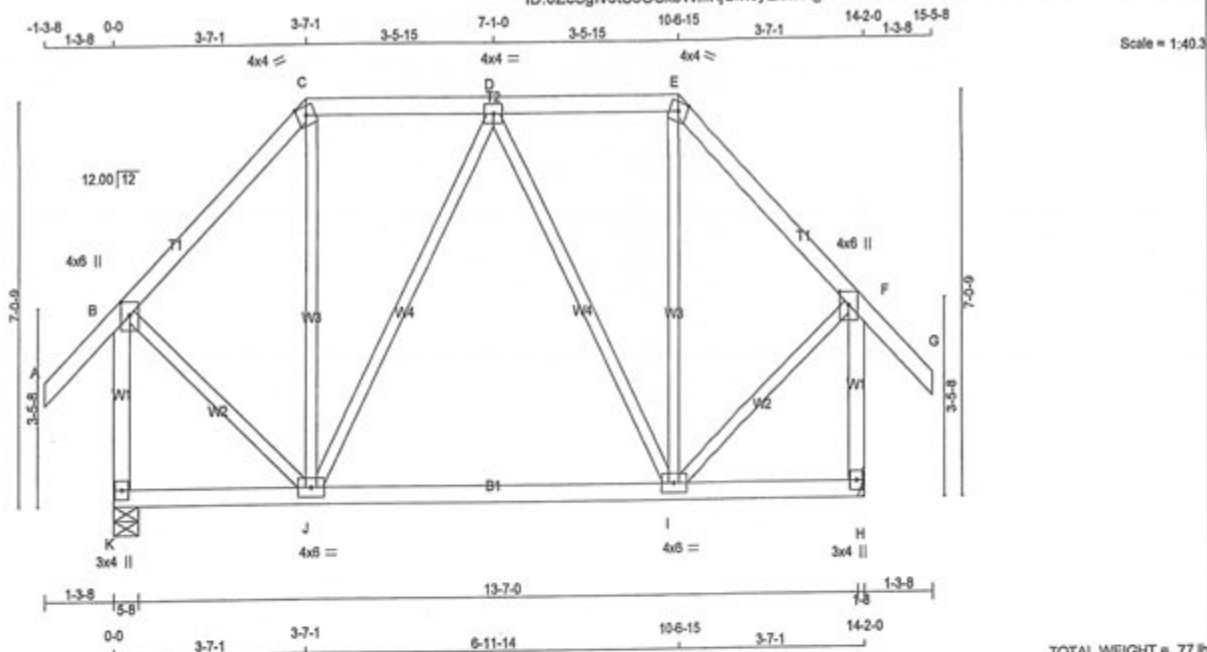
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.62 (B) (INPUT = 0.90)  
JSI METAL = 0.11 (C) (INPUT = 1.00)



DWG NO. TAM 3671 -15  
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    |        |
| 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+p                    | MT20 | 4.0  | 6.0    | 2.75 | 2.00 |   |   |
| C TTW-m                     | MT20 | 4.0  | 4.0    | Edge |      |   |   |
| D TMVW-t                    | MT20 | 4.0  | 4.0    |      |      |   |   |
| E TTW-m                     | MT20 | 4.0  | 4.0    | Edge |      |   |   |
| F TMVW+p                    | MT20 | 4.0  | 6.0    | 2.75 | 2.00 |   |   |
| H BMV1+p                    | MT20 | 3.0  | 4.0    |      |      |   |   |
| I BMVWW-t                   | MT20 | 4.0  | 6.0    |      |      |   |   |
| J BMVWW-t                   | MT20 | 4.0  | 6.0    |      |      |   |   |
| K BMV1+p                    | MT20 | 3.0  | 4.0    |      |      |   |   |

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | HORZ                            | DOWN      | HORZ     |
| K        | 1253                    | 0                               | 1253      | 0        |
| H        | 1253                    | 0                               | 1253      | 0        |

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN | COMPONENT REACTIONS | WIND  | DEAD    | SOIL  |
|----|----------|---------|---------------------|-------|---------|-------|
| K  | 974      | 590 / 0 | 149 / 0             | 0 / 0 | 235 / 0 | 0 / 0 |
| H  | 974      | 590 / 0 | 149 / 0             | 0 / 0 | 235 / 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 = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.     | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |
|--------|-----------|---------------------------|---------------------------|---------------------------|-------|-------|---------------------------|---------------------------|
| FR-TO  |           |                           |                           |                           | FR-TO |       |                           |                           |
| A-B    | 0 / 61    | -124.4                    | -124.4                    | 0.17 (1)                  | 10.00 | J-C   | 0 / 156                   | 0.04 (3)                  |
| B-C    | -636 / 0  | -124.4                    | -124.4                    | 0.21 (1)                  | 6.25  | J-D   | -297 / 0                  | 0.34 (1)                  |
| C-D    | -448 / 0  | -124.4                    | -124.4                    | 0.19 (1)                  | 6.25  | D-I   | -297 / 0                  | 0.34 (1)                  |
| D-E    | -448 / 0  | -124.4                    | -124.4                    | 0.19 (1)                  | 6.25  | I-E   | 0 / 156                   | 0.04 (3)                  |
| E-F    | -636 / 0  | -124.4                    | -124.4                    | 0.21 (1)                  | 6.25  | B-J   | 0 / 585                   | 0.13 (1)                  |
| F-G    | 0 / 61    | -124.4                    | -124.4                    | 0.17 (1)                  | 10.00 | I-F   | 0 / 585                   | 0.13 (1)                  |
| K-B    | -1225 / 0 | 0.0                       | 0.0                       | 0.25 (1)                  | 7.25  |       |                           |                           |
| H-F    | -1225 / 0 | 0.0                       | 0.0                       | 0.25 (1)                  | 7.25  |       |                           |                           |
| K-J    | 0 / 0     | -28.0                     | -28.0                     | 0.24 (3)                  | 10.00 |       |                           |                           |
| J-I    | 0 / 582   | -28.0                     | -28.0                     | 0.28 (3)                  | 10.00 |       |                           |                           |
| I-H    | 0 / 0     | -28.0                     | -28.0                     | 0.24 (3)                  | 10.00 |       |                           |                           |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 34.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 60.3 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 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.47")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.05")  
ALLOWABLE DEFL. (TL) = L/360 (0.47")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.09")

CSI: TC=0.25/1.00 (F-H-1), BC=0.28/1.00 (I-J-3), WB=0.34/1.00 (D-I-1), SSI=0.21/1.00 (C-D-1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

#### NAIL VALUES

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

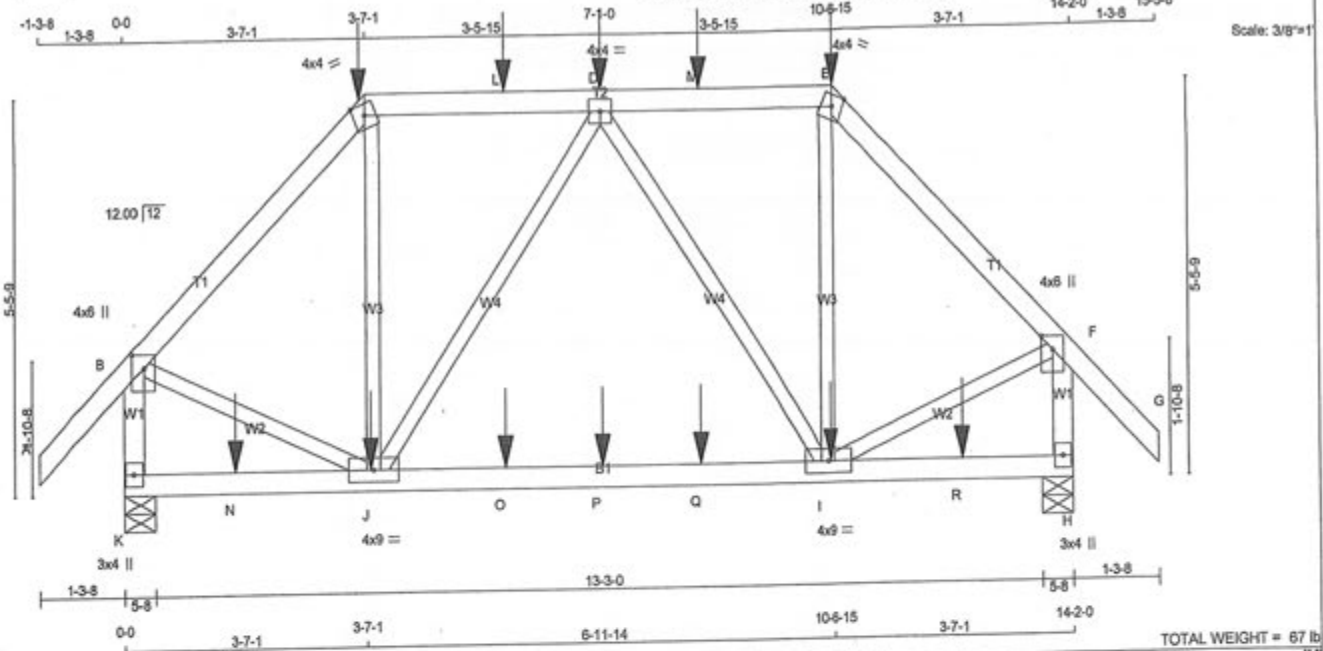
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.86 (B) (INPUT = 0.90)  
JSI METAL= 0.19 (B) (INPUT = 1.00)



DRWG NO. TAM 3672-38  
STRUCTURAL  
COMPONENT ONLY



| LUMBER                | CHORDS | SIZE | DRY  | NO.2 | DESCR. | SPF |
|-----------------------|--------|------|------|------|--------|-----|
| 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 EXCEPT       | 2x3    | DRY  | No.2 | SPF  |        |     |
| DRY: SEASONED LUMBER. |        |      |      |      |        |     |

#### 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 1579               | DOWN 1579                       | 0               | 5-8            |
| K        | HORIZ 0                 | UP 1579                         | 0               | 5-8            |
| H        | VERT 1579               | DOWN 1579                       | 0               | 5-8            |

| UNFACTORED REACTIONS | 1ST LCASE | MAX. MIN. COMPONENT REACTIONS             |
|----------------------|-----------|-------------------------------------------|
| JT                   | COMBINED  | SNOW LIVE PERM. LIVE WIND DEAD SOIL       |
| K                    | 1223      | 743 / 0 181 / 0 0 / 0 0 / 0 299 / 0 0 / 0 |
| H                    | 1223      | 743 / 0 181 / 0 0 / 0 0 / 0 299 / 0 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.46 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS (LC) | MAX. UNBRACED LENGTH FR-TO | WEBS | MAX. FACTORED FORCE (LBS) | MAX. CS (LC) |
|--------|---------------------------|---------------------------|--------------|----------------------------|------|---------------------------|--------------|
| FR-TO  |                           | FROM TO                   |              |                            | J-C  | 0 / 285                   | 0.07 (3)     |
| A-B    | 0 / 61                    | -124.4 -124.4             | 0.19 (1)     | 10.00                      | J-D  | -395 / 0                  | 0.27 (1)     |
| B-C    | -1152 / 0                 | -124.4 -124.4             | 0.33 (1)     | 5.46                       | D-I  | -395 / 0                  | 0.27 (1)     |
| C-L    | -815 / 0                  | -124.4 -124.4             | 0.33 (1)     | 6.21                       | I-E  | 0 / 285                   | 0.07 (3)     |
| L-D    | -815 / 0                  | -124.4 -124.4             | 0.33 (1)     | 6.21                       | B-J  | 0 / 678                   | 0.22 (1)     |
| D-M    | -815 / 0                  | -124.4 -124.4             | 0.33 (1)     | 6.21                       | I-F  | 0 / 678                   | 0.22 (1)     |
| M-E    | -815 / 0                  | -124.4 -124.4             | 0.33 (1)     | 5.46                       |      |                           |              |
| E-F    | -1152 / 0                 | -124.4 -124.4             | 0.33 (1)     | 10.00                      |      |                           |              |
| F-G    | 0 / 61                    | -124.4 -124.4             | 0.19 (1)     | 10.00                      |      |                           |              |
| K-B    | -1549 / 0                 | 0.0 0.0                   | 0.19 (1)     | 6.58                       |      |                           |              |
| H-F    | -1549 / 0                 | 0.0 0.0                   | 0.19 (1)     | 6.58                       |      |                           |              |
| K-N    | 0 / 0                     | -28.0 -28.0               | 0.31 (3)     | 10.00                      |      |                           |              |
| N-J    | 0 / 0                     | -28.0 -28.0               | 0.31 (3)     | 10.00                      |      |                           |              |
| J-O    | 0 / 1032                  | -28.0 -28.0               | 0.41 (2)     | 10.00                      |      |                           |              |
| O-P    | 0 / 1032                  | -28.0 -28.0               | 0.41 (2)     | 10.00                      |      |                           |              |
| P-Q    | 0 / 1032                  | -28.0 -28.0               | 0.41 (2)     | 10.00                      |      |                           |              |
| Q-I    | 0 / 1032                  | -28.0 -28.0               | 0.41 (2)     | 10.00                      |      |                           |              |
| I-R    | 0 / 0                     | -28.0 -28.0               | 0.31 (3)     | 10.00                      |      |                           |              |
| R-H    | 0 / 0                     | -28.0 -28.0               | 0.31 (3)     | 10.00                      |      |                           |              |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX. | MAX. | FACE  | DIR. | TYPE  |
|----|---------|------|------|------|-------|------|-------|
| C  | 3-7-1   | -23  | -25  | -    | FRONT | VERT | DEAD  |
| C  | 3-7-1   | -64  | -64  | -    | FRONT | VERT | TOTAL |
| C  | 3-7-1   | -116 | -116 | -    | FRONT | VERT | SNOW  |
| D  | 7-1-0   | -54  | -54  | -    | FRONT | VERT | DEAD  |
| E  | 10-6-15 | -23  | -25  | -    | FRONT | VERT | TOTAL |
| E  | 10-6-15 | -64  | -64  | -    | FRONT | VERT | SNOW  |
| E  | 10-6-15 | -116 | -116 | -    | FRONT | VERT | TOTAL |
| I  | 10-6-15 | -12  | -21  | -    | FRONT | VERT | DEAD  |
| J  | 3-7-13  | -12  | -21  | -    | FRONT | VERT | TOTAL |
| L  | 5-7-13  | -54  | -54  | -    | FRONT | VERT | DEAD  |
| M  | 8-6-3   | -54  | -54  | -    | FRONT | VERT | TOTAL |
| N  | 1-7-13  | -12  | -21  | -    | FRONT | VERT | DEAD  |
| O  | 5-7-13  | -12  | -21  | -    | FRONT | VERT | TOTAL |
| P  | 7-1-0   | -12  | -21  | -    | FRONT | VERT | DEAD  |
| Q  | 8-6-3   | -12  | -21  | -    | FRONT | VERT | TOTAL |
| R  | 12-6-3  | -12  | -21  | -    | FRONT | VERT | DEAD  |

#### 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 = 34.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 60.3 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, NBC 2010

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

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.47")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.07")  
ALLOWABLE DEFL. (TL) = L/360 (0.47")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.12")

CSI: TC=0.34/1.00 (E-F:1), BC=0.41/1.00 (I-J:2), WB=0.27/1.00 (D-J:1), SSI=0.27/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

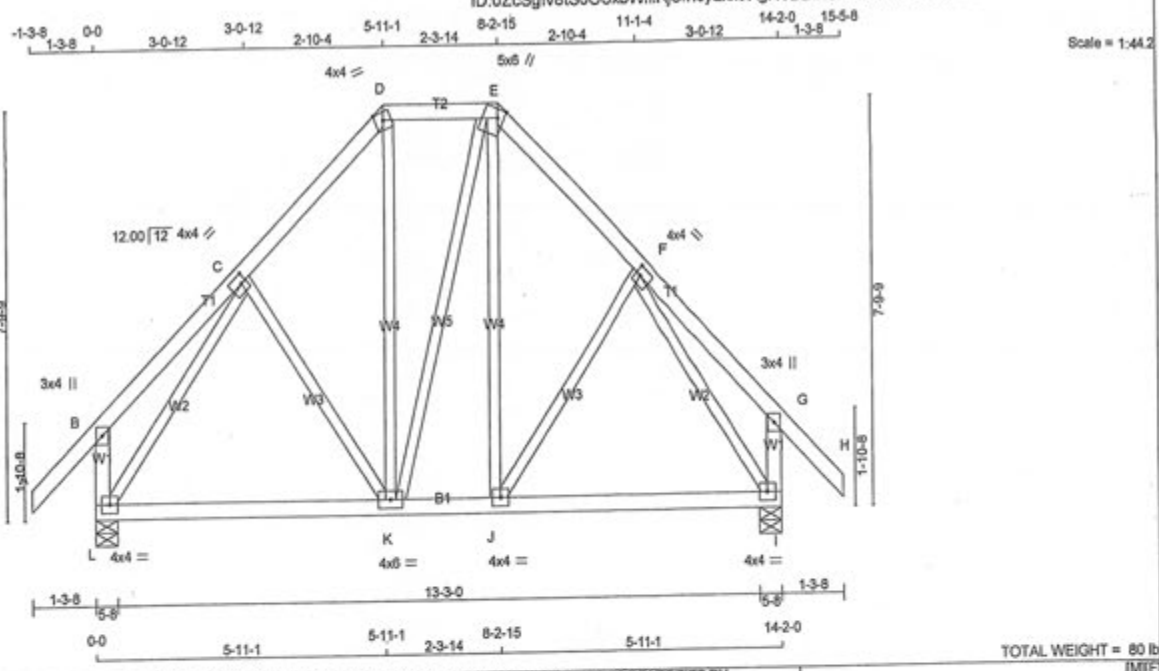
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.81 (F) (INPUT = 0.90)  
JSI METAL= 0.29 (B) (INPUT = 1.00)



DWG NO. TAM 3673-18  
STRUCTURAL  
COMPONENT ONLY



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

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

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 |           |          |
| L  | 1253                    | 0    | 1253                            | 0    | 5-8       | 5-8      |
| I  | 1253                    | 0    | 1253                            | 0    | 5-8       | 5-8      |

**UNFACTORED REACTIONS**

| JT | 1ST CASE | MAX / MIN COMPONENT REACTIONS |         |            |       |         |       |
|----|----------|-------------------------------|---------|------------|-------|---------|-------|
|    |          | SNOW                          | LIVE    | PERM. LIVE | WIND  | DEAD    | SOIL  |
| L  | 974      | 590 / 0                       | 149 / 0 | 0 / 0      | 0 / 0 | 235 / 0 | 0 / 0 |
| I  | 974      | 590 / 0                       | 149 / 0 | 0 / 0      | 0 / 0 | 235 / 0 | 0 / 0 |

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

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

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

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

| CHORDS |                           |                           |               | WEBS  |                           |               |          |
|--------|---------------------------|---------------------------|---------------|-------|---------------------------|---------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) | MEMB.    |
| FR-TO  |                           | FROM TO                   |               | FR-TO |                           |               |          |
| A-B    | 0 / 61                    | -124.4 -124.4             | 0.17 (1)      | 10.00 | C-K                       | -113 / 32     | 0.06 (1) |
| B-C    | 0 / 30                    | -124.4 -124.4             | 0.17 (1)      | 10.00 | K-D                       | 0 / 231       | 0.05 (2) |
| C-D    | -748 / 0                  | -124.4 -124.4             | 0.13 (1)      | 6.25  | K-E                       | 0 / 3         | 0.00 (2) |
| D-E    | -509 / 0                  | -124.4 -124.4             | 0.09 (1)      | 6.25  | J-E                       | 0 / 227       | 0.05 (2) |
| E-F    | -747 / 0                  | -124.4 -124.4             | 0.13 (1)      | 6.25  | J-F                       | -113 / 32     | 0.06 (1) |
| F-G    | 0 / 30                    | -124.4 -124.4             | 0.17 (1)      | 10.00 | L-C                       | -1040 / 0     | 0.48 (1) |
| G-H    | 0 / 61                    | -124.4 -124.4             | 0.17 (1)      | 10.00 | F-I                       | -1039 / 0     | 0.48 (1) |
| L-B    | -313 / 0                  | 0.0 0.0                   | 0.03 (1)      | 7.81  |                           |               |          |
| I-G    | -313 / 0                  | 0.0 0.0                   | 0.03 (1)      | 7.81  |                           |               |          |
| L-K    | 0 / 571                   | -28.0 -28.0               | 0.27 (3)      | 10.00 |                           |               |          |
| K-J    | 0 / 508                   | -28.0 -28.0               | 0.27 (3)      | 10.00 |                           |               |          |
| J-I    | 0 / 570                   | -28.0 -28.0               | 0.28 (3)      | 10.00 |                           |               |          |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 34.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 60.3 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 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.47")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.06")  
ALLOWABLE DEFL. (TL) = L/360 (0.47")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.10")

CSI: TC=0.17/1.00 (G-H-1), BC=0.28/1.00 (I-J-3), WB=0.48/1.00 (C-L-1), SS=0.15/1.00 (K-L-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 610 354 1667 822 2284 1650

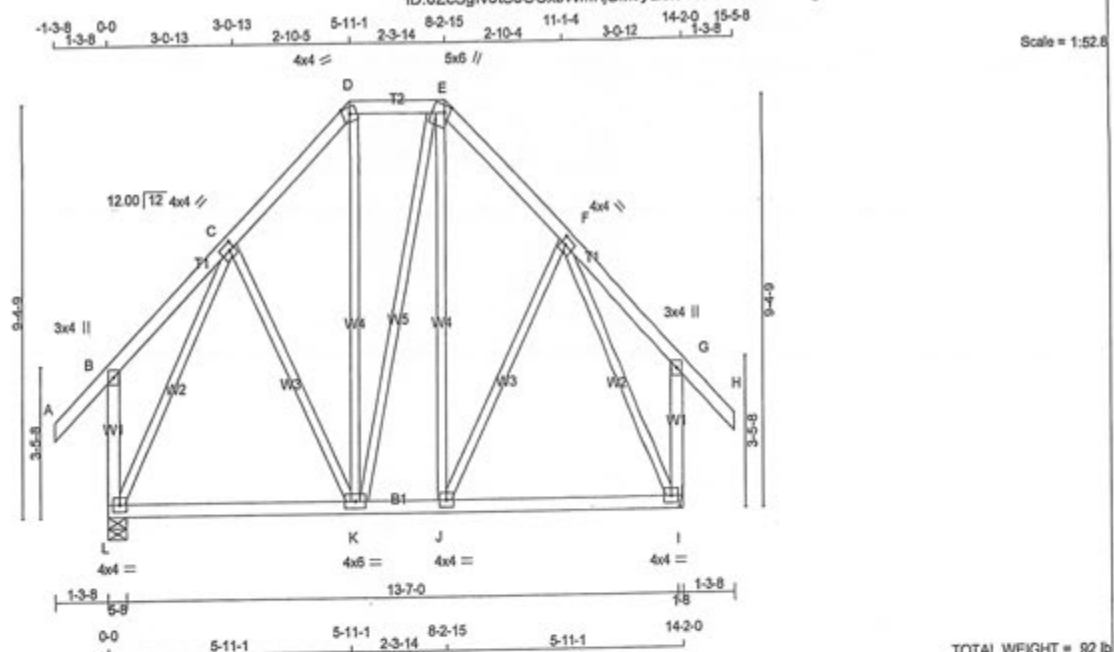
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.88 (C) (INPUT = 0.90)  
JSI METAL= 0.39 (C) (INPUT = 1.00)



DRWG NO. TAM 3674-13  
STRUCTURAL  
COMPONENT ONLY



TOTAL WEIGHT = 92 lb

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| C  | TMVW-1 | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D  | TTW-m  | MT20   | 4.0 | 4.0 | Edge |      |
| E  | TTWV+m | MT20   | 5.0 | 6.0 | 2.00 | 1.50 |
| F  | TMVW-1 | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| G  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| I  | BMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| J  | BMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| K  | BMVW-1 | MT20   | 4.0 | 6.0 |      |      |
| L  | BMVW-1 | MT20   | 4.0 | 4.0 |      |      |

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | DOWN                            | IN-SX     | IN-SX    |
| L        | 1253                    | 0                               | 5-8       | 5-8      |
| I        | 1253                    | 0                               | 5-8       | 5-8      |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | MAX. MIN. SNOW | MAX. MIN. LIVE | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|----------------|----------------|------------|-------|---------|-------|
| L  | 974       | 590 / 0        | 149 / 0        | 0 / 0      | 0 / 0 | 235 / 0 | 0 / 0 |
| I  | 974       | 590 / 0        | 149 / 0        | 0 / 0      | 0 / 0 | 235 / 0 | 0 / 0 |

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

**BRACING**

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED    | VERT. LOAD | LC1      | MAX      | MAX    | MEMB.    | MAX. FACTORED | FACTORED    | VERT. LOAD | LC1 | MAX      | MAX    |
|--------|---------------|-------------|------------|----------|----------|--------|----------|---------------|-------------|------------|-----|----------|--------|
| MEMB.  | FORCE (LBS)   | FORCE (LBS) | FROM       | TO       | CSI (LC) | UNBRAC | FR-TO    | FORCE (LBS)   | FORCE (LBS) | FROM       | TO  | CSI (LC) | UNBRAC |
| FR-TO  |               |             |            |          |          |        |          |               |             |            |     |          |        |
| A-B    | 0 / 61        | -124.4      | -124.4     | 0.17 (1) | 10.00    | C-K    | -13 / 76 | 0.02 (3)      |             |            |     |          |        |
| B-C    | 0 / 29        | -124.4      | -124.4     | 0.17 (1) | 10.00    | K-D    | 0 / 172  | 0.04 (3)      |             |            |     |          |        |
| C-D    | -625 / 0      | -124.4      | -124.4     | 0.13 (1) | 6.25     | K-E    | 0 / 3    | 0.00 (3)      |             |            |     |          |        |
| D-E    | -420 / 0      | -124.4      | -124.4     | 0.09 (1) | 6.25     | J-E    | 0 / 169  | 0.04 (3)      |             |            |     |          |        |
| E-F    | -625 / 0      | -124.4      | -124.4     | 0.13 (1) | 6.25     | J-F    | -13 / 75 | 0.02 (3)      |             |            |     |          |        |
| F-G    | 0 / 29        | -124.4      | -124.4     | 0.17 (1) | 10.00    | L-C    | -962 / 0 | 0.78 (1)      |             |            |     |          |        |
| G-H    | 0 / 61        | -124.4      | -124.4     | 0.17 (1) | 10.00    | F-I    | -962 / 0 | 0.78 (1)      |             |            |     |          |        |
| L-B    | -318 / 0      | 0.0         | 0.0        | 0.07 (1) | 7.81     |        |          |               |             |            |     |          |        |
| I-G    | -318 / 0      | 0.0         | 0.0        | 0.07 (1) | 7.81     |        |          |               |             |            |     |          |        |
| L-K    | 0 / 424       | -28.0       | -28.0      | 0.26 (3) | 10.00    |        |          |               |             |            |     |          |        |
| K-J    | 0 / 420       | -28.0       | -28.0      | 0.27 (3) | 10.00    |        |          |               |             |            |     |          |        |
| J-I    | 0 / 424       | -28.0       | -28.0      | 0.26 (3) | 10.00    |        |          |               |             |            |     |          |        |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

|            |    |      |      |     |
|------------|----|------|------|-----|
| TOP CH.    | LL | =    | 34.8 | PSF |
|            | DL | =    | 8.0  | PSF |
| BOT CH.    | LL | =    | 10.5 | PSF |
|            | DL | =    | 7.0  | PSF |
| TOTAL LOAD | =  | 60.3 | 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 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.47")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")  
ALLOWABLE DEFL.(TL)= L/360 (0.47")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.17/1.00 (G-H-1), BC=0.27/1.00 (J-K-3),  
WB=0.78/1.00 (C-L-1), SS=0.15/1.00 (K-L-3)

DOL LUMBER=1.00 NAIL=1.00 LBS 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.

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

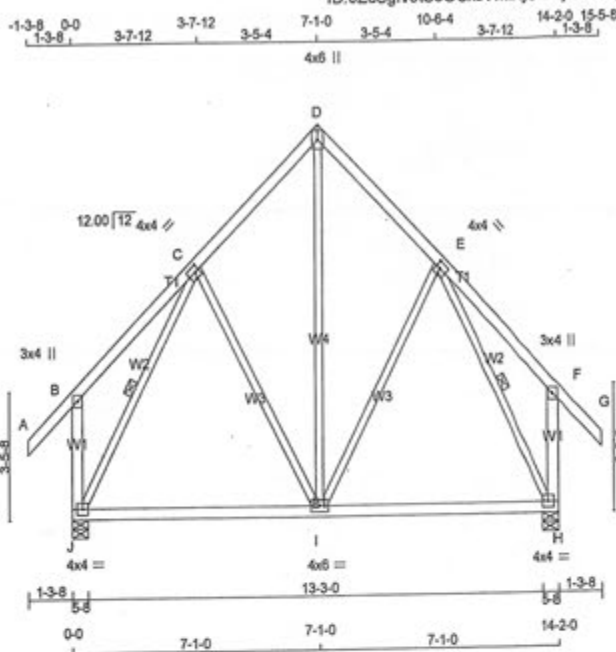
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (C) (INPUT = 0.90)  
JSI METAL= 0.34 (C) (INPUT = 1.00)



DRWG NO. TAM 3675-12  
STRUCTURAL  
COMPONENT ONLY



Scale = 1:62.4

TOTAL WEIGHT = 2 X 82 = 164 lb [M/F]

| LUMBER                | SIZE | DRY | DESCR. | SPF |
|-----------------------|------|-----|--------|-----|
| N. L. G. A. RULES     |      |     |        |     |
| CHORDS                |      |     |        |     |
| 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) | W   | LEN | Y    | X    |
|-----------------------------|-----|-----|------|------|
| JT TYPE PLATES              |     |     |      |      |
| B TMV+p MT20                | 3.0 | 4.0 |      |      |
| C TMVW+ MT20                | 4.0 | 4.0 | 2.00 | 1.50 |
| D TMV+p MT20                | 4.0 | 6.0 |      |      |
| E TMVW+ MT20                | 4.0 | 4.0 | 2.00 | 1.50 |
| F TMV+p MT20                | 3.0 | 4.0 |      |      |
| H BMVW+ MT20                | 4.0 | 4.0 |      |      |
| I BMVW+ MT20                | 4.0 | 6.0 |      |      |
| J BMVW+ 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                    | DOWN                            | UPLIFT    | IN-SX    |
| J        | 1253                    | 0                               | 0         | 5-8      |
| H        | 1253                    | 0                               | 0         | 5-8      |

**UNFACTORED REACTIONS**

| 1ST LCASE   | MAX/MIN COMPONENT REACTIONS | WIND    | DEAD      | SOIL  |
|-------------|-----------------------------|---------|-----------|-------|
| JT COMBINED | SNOW                        | LIVE    | PERM LIVE |       |
| J           | 974                         | 590 / 0 | 149 / 0   | 0 / 0 |
| H           | 974                         | 590 / 0 | 149 / 0   | 0 / 0 |

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

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (L) | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (L) |
|--------|----------|---------------------------|---------------------------|--------------------------|-------|-------|---------------------------|--------------------------|
| FR-TO  |          |                           | FROM TO                   |                          | FR-TO |       |                           |                          |
| A-B    | 0 / 61   | -124.4                    | -124.4                    | 0.17 (1)                 | 10.00 | I-D   | 0 / 450                   | 0.10 (1)                 |
| B-C    | 0 / 36   | -124.4                    | -124.4                    | 0.25 (1)                 | 10.00 | I-E   | -116 / 50                 | 0.13 (1)                 |
| C-D    | -590 / 0 | -124.4                    | -124.4                    | 0.20 (1)                 | 6.25  | C-I   | -116 / 50                 | 0.13 (1)                 |
| D-E    | -590 / 0 | -124.4                    | -124.4                    | 0.20 (1)                 | 6.25  | J-C   | -944 / 0                  | 0.35 (1)                 |
| E-F    | 0 / 36   | -124.4                    | -124.4                    | 0.25 (1)                 | 10.00 | E-H   | -944 / 0                  | 0.35 (1)                 |
| F-G    | 0 / 61   | -124.4                    | -124.4                    | 0.17 (1)                 | 10.00 |       |                           |                          |
| J-B    | -345 / 0 | 0.0                       | 0.0                       | 0.07 (1)                 | 7.81  |       |                           |                          |
| H-F    | -345 / 0 | 0.0                       | 0.0                       | 0.07 (1)                 | 7.81  |       |                           |                          |
| J-I    | 0 / 445  | -28.0                     | -28.0                     | 0.49 (3)                 | 10.00 |       |                           |                          |
| I-H    | 0 / 445  | -28.0                     | -28.0                     | 0.49 (3)                 | 10.00 |       |                           |                          |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 34.8 | PSF |
|            | DL | = | 8.0  | PSF |
| BOT CH.    | LL | = | 10.5 | PSF |
|            | DL | = | 7.0  | PSF |
| TOTAL LOAD |    | = | 60.3 | 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 CBC 2012, BCBC 2012, ABC 2014  
- CSA 088-09  
- TPIC 2011

(55% OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.47")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.07")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.47")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.13")

CSI: TC=0.25/1.00 (B-C:1), BC=0.49/1.00 (H-I:3), WB=0.35/1.00 (C-J:1), SSI=0.19/1.00 (I-J: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 2264 1656

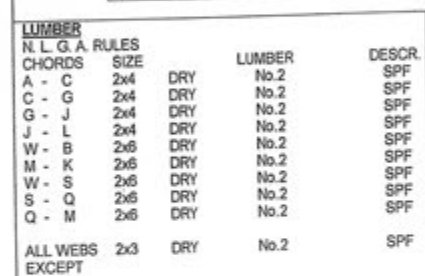
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (C) (INPUT = 0.90)  
JSI METAL= 0.35 (C) (INPUT = 1.00)



DWG NO. TAM 3676-18  
STRUCTURAL  
COMPONENT ONLY



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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.85 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY  
APPLIED.

ALL RAFTERS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

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

\*\*\* NON STANDARD GIRDER \*\*\*  
ADD'L USER-DEFINED LOADS APPLIED TO

|   |         |      |     |     |
|---|---------|------|-----|-----|
| P | DMV44-1 | MT20 | 5.0 | 6.0 |
| Q | BS-t    | MT20 | 5.0 | 6.0 |

JSI GRIP= 0.88 (I) (INPUT = 0.90)  
JSI METAL= 0.65 (Q) (INPUT = 1.00)



|                                                                                    |            |          |     |             |          |
|------------------------------------------------------------------------------------|------------|----------|-----|-------------|----------|
| JOB NAME                                                                           | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 290374                                                                             | T30        | 1        | 2   | TRUSS DESC. |          |
| Version 8.200 S Dec 12 2017 Mitek Industries, Inc. Mon Jan 15 09:57:43 2018 Page 2 |            |          |     |             |          |
| ID:QX1hTR9EEsTospKuW3Qy yLx1e-XGgWTnU0Hx0jOdbpFvrUPdyvJj?sfAJagVZRjzv9VWM          |            |          |     |             |          |

Tamarack Roof Truss, Burlington

# PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| R  | BMWW-1 | MT20   | 5.0 | 6.0 |      |      |
| S  | BS-1   | MT20   | 5.0 | 6.0 |      |      |
| T  | BMWW-1 | MT20   | 5.0 | 6.0 |      |      |
| U  | BMWW-1 | MT20   | 4.0 | 9.0 |      |      |
| V  | BMWW-1 | MT20   | 5.0 | 8.0 | 2.50 | 3.25 |
| W  | BMV1-p | MT20   | 3.0 | 6.0 |      |      |

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

## HANGERS NOTES

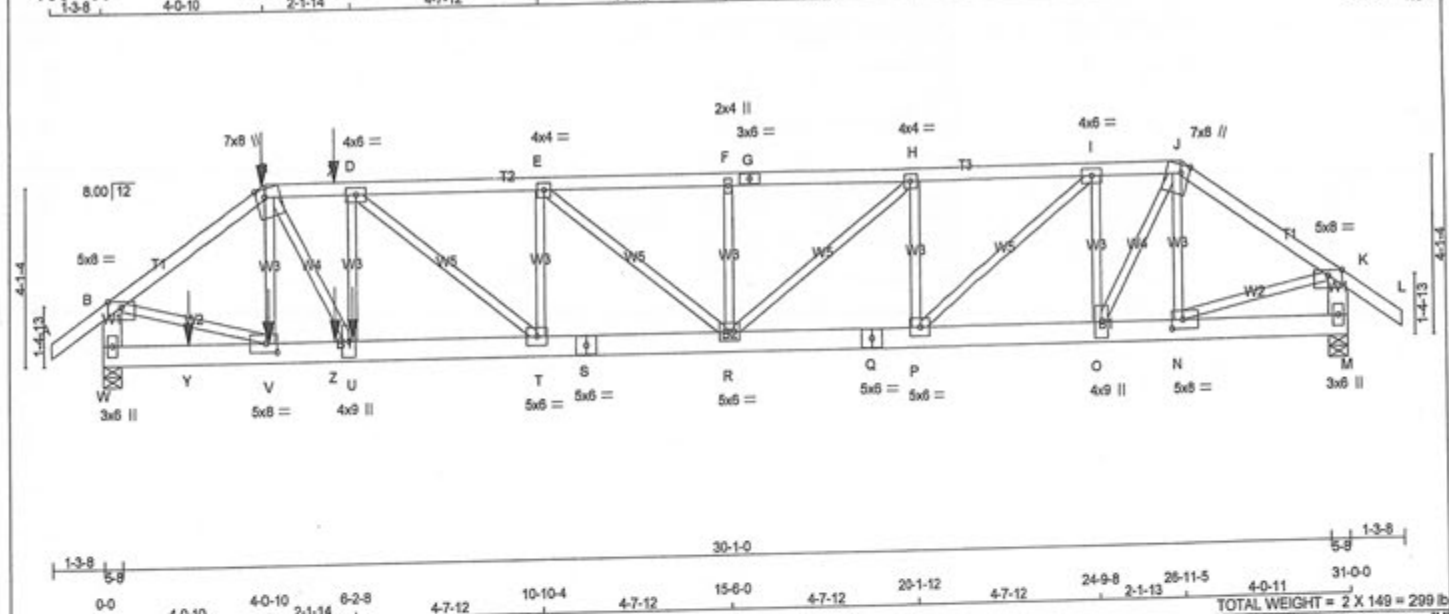
- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 545.6 lbs FACTORED DOWN AT 28-11-5, 545.6 lbs FACTORED DOWN AT 4-0-11, 149.7 lbs FACTORED DOWN AT 6-1-6, 149.7 lbs FACTORED DOWN AT 8-1-6, 149.7 lbs FACTORED DOWN AT 10-1-6, 149.7 lbs FACTORED DOWN AT 12-1-6, 149.7 lbs FACTORED DOWN AT 14-1-6, 149.7 lbs FACTORED DOWN AT 15-6-0, 149.7 lbs FACTORED DOWN AT 16-10-10, 149.7 lbs FACTORED DOWN AT 18-10-10, 149.7 lbs FACTORED DOWN AT 20-10-10, AND 149.7 lbs FACTORED DOWN AT 22-10-10, AND 149.7 lbs FACTORED DOWN AT 24-10-10 ON TOP CHORD, AND 69.9 lbs FACTORED DOWN AT 2-1-6, 69.9 lbs FACTORED DOWN AT 4-1-6, 69.9 lbs FACTORED DOWN AT 6-1-6, 69.9 lbs FACTORED DOWN AT 8-1-6, 69.9 lbs FACTORED DOWN AT 10-1-6, 69.9 lbs FACTORED DOWN AT 12-1-6, 69.9 lbs FACTORED DOWN AT 14-1-6, 69.9 lbs FACTORED DOWN AT 15-6-0, 69.9 lbs FACTORED DOWN AT 16-10-10, 69.9 lbs FACTORED DOWN AT 18-10-10, 69.9 lbs FACTORED DOWN AT 20-10-10, 69.9 lbs FACTORED DOWN AT 22-10-10, 69.9 lbs FACTORED DOWN AT 24-10-10, AND 69.9 lbs FACTORED DOWN AT 26-10-10, AND 69.9 lbs FACTORED DOWN AT 28-10-10 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  |
|----|----------|------|------|------|-------|------|-------|
| C  | 4-0-11   | -63  | -70  | ---  | FRONT | VERT | DEAD  |
| C  | 4-0-11   | -159 | -159 | ---  | FRONT | VERT | TOTAL |
| C  | 4-0-11   | -324 | -324 | ---  | FRONT | VERT | SNOW  |
| D  | 6-1-6    | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| F  | 15-6-0   | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| I  | 24-10-10 | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| J  | 26-11-5  | -63  | -70  | ---  | FRONT | VERT | DEAD  |
| J  | 26-11-5  | -159 | -159 | ---  | FRONT | VERT | TOTAL |
| J  | 26-11-5  | -324 | -324 | ---  | FRONT | VERT | SNOW  |
| N  | 26-10-10 | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| O  | 24-10-10 | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| Q  | 18-10-10 | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| R  | 15-6-0   | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| S  | 12-1-6   | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| U  | 6-1-6    | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| V  | 4-1-6    | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| X  | 8-1-6    | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| Y  | 10-1-6   | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| Z  | 12-1-6   | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| AA | 14-1-6   | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| AB | 16-10-10 | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| AC | 18-10-10 | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| AD | 20-10-10 | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| AE | 22-10-10 | -150 | -150 | ---  | FRONT | VERT | TOTAL |
| AF | 2-1-6    | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| AG | 8-1-6    | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| AH | 10-1-6   | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| AI | 14-1-6   | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| AJ | 16-10-10 | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| AK | 20-10-10 | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| AL | 22-10-10 | -40  | -70  | ---  | FRONT | VERT | TOTAL |
| AM | 26-10-10 | -40  | -70  | ---  | FRONT | VERT | TOTAL |



DRWG NO. TAM 3677 -18  
STRUCTURAL  
COMPONENT ONLY



| LUMBER            |      |        |          |
|-------------------|------|--------|----------|
| N. L. G. A. RULES | SIZE | LUMBER | DESCR.   |
| CHORDS            |      |        |          |
| A - C             | 2x4  | DRY    | No.2 SPF |
| C - G             | 2x4  | DRY    | No.2 SPF |
| G - J             | 2x4  | 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             | 2x6  | DRY    | No.2 SPF |
| S - Q             | 2x6  | DRY    | No.2 SPF |
| Q - M             | 2x6  | DRY    | No.2 SPF |

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF)   |
|------------------------------------------|----------------------|-------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |             |
| A-C 1                                    | 12                   | SIDE(61.0)  |
| C-G 1                                    | 12                   | SIDE(61.0)  |
| G-J 1                                    | 12                   | TOP         |
| J-L 1                                    | 12                   | TOP         |
| W-B 2                                    | 12                   | TOP         |
| M-K 2                                    | 12                   | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| W-S 2                                    | 12                   | SIDE(183.1) |
| S-Q 2                                    | 12                   | TOP         |
| Q-M 2                                    | 12                   | TOP         |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| 2x3 1                                    | 6                    | SIDE(506.2) |
| D-U 1                                    | 3                    |             |
| I-O 1                                    | 3                    |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

| PLATES (table is in inches) |        |        |     |     |           |
|-----------------------------|--------|--------|-----|-----|-----------|
| JT                          | TYPE   | PLATES | W   | LEN | Y X       |
| B                           | TMWW-p | MT20   | 5.0 | 8.0 | Edge 2.50 |
| C                           | TTWW+m | MT20   | 7.0 | 8.0 | Edge 2.50 |
| D                           | TMWW-t | MT20   | 4.0 | 6.0 |           |
| E                           | TMWW-t | MT20   | 4.0 | 4.0 |           |
| F                           | TMWW-w | MT20   | 2.0 | 4.0 |           |
| G                           | TS-t   | MT20   | 3.0 | 6.0 |           |
| H                           | TMWW-t | MT20   | 4.0 | 4.0 |           |
| I                           | TMWW-t | MT20   | 4.0 | 6.0 |           |
| J                           | TTWW+m | MT20   | 7.0 | 8.0 | Edge 2.50 |
| K                           | TMWW-p | MT20   | 5.0 | 8.0 | Edge      |
| M                           | BMV1+p | MT20   | 3.0 | 6.0 |           |
| N                           | BMWW-t | MT20   | 5.0 | 8.0 | 2.50 3.25 |
| O                           | BMWW-t | MT20   | 4.0 | 6.0 |           |
| P                           | BMWW-t | MT20   | 5.0 | 6.0 |           |
| Q                           | BS-t   | MT20   | 5.0 | 6.0 |           |

| DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |                         |                                 |           |           |        |       |       |
|-----------------------------------------------------------------------------------------------|-------------------------|---------------------------------|-----------|-----------|--------|-------|-------|
| BEARINGS                                                                                      |                         |                                 |           |           |        |       |       |
|                                                                                               | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQ'D BRG |        |       |       |
| JT                                                                                            | VERT                    | HORZ                            | DOWN      | HORZ      | UPLIFT | IN-SX | IN-SX |
| W                                                                                             | 5346                    | 0                               | 5346      | 0         | 0      | 5-8   | 5-8   |
| M                                                                                             | 3177                    | 0                               | 3177      | 0         | 0      | 5-8   | 5-8   |

| UNFACTORED REACTIONS |           |          |                     |           |       |          |       |
|----------------------|-----------|----------|---------------------|-----------|-------|----------|-------|
|                      | 1ST LCASE | MAX/MIN  | COMPONENT REACTIONS |           |       |          |       |
| JT                   | COMBINED  | SNOW     | LIVE                | PERM.LIVE | WIND  | DEAD     | SOIL  |
| W                    | 4163      | 2505 / 0 | 646 / 0             | 0 / 0     | 0 / 0 | 1013 / 0 | 0 / 0 |
| M                    | 2484      | 1480 / 0 | 398 / 0             | 0 / 0     | 0 / 0 | 608 / 0  | 0 / 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 = 3.16 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. CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |  |
| FR-TO                 |                           | FROM TO                       |               | FR-TO |                           | LENGTH        |  |
| A-B                   | 0 / 47                    | -124.4 -124.4 0.09 (1)        | 10.00         | V-C   | -977 / 0                  | 0.12 (1)      |  |
| B-C                   | -6427 / 0                 | -124.4 -124.4 0.39 (1)        | 3.56          | C-U   | 0 / 4159                  | 0.51 (1)      |  |
| C-X                   | -7397 / 0                 | -124.4 -124.4 0.29 (1)        | 3.42          | U-D   | -1009 / 0                 | 0.13 (1)      |  |
| X-D                   | -7397 / 0                 | -124.4 -124.4 0.29 (1)        | 3.42          | D-T   | 0 / 7771                  | 0.10 (1)      |  |
| D-E                   | -7998 / 0                 | -124.4 -124.4 0.47 (1)        | 3.16          | T-E   | -288 / 8                  | 0.04 (1)      |  |
| E-F                   | -7998 / 0                 | -124.4 -124.4 0.44 (1)        | 3.27          | E-R   | -512 / 0                  | 0.16 (1)      |  |
| F-G                   | -7599 / 0                 | -124.4 -124.4 0.44 (1)        | 3.27          | R-F   | -560 / 0                  | 0.07 (1)      |  |
| G-H                   | -7599 / 0                 | -124.4 -124.4 0.44 (1)        | 3.27          | F-H   | 0 / 1554                  | 0.19 (1)      |  |
| H-I                   | -6387 / 0                 | -124.4 -124.4 0.36 (1)        | 3.61          | P-H   | -1574 / 0                 | 0.20 (1)      |  |
| I-J                   | -4255 / 0                 | -124.4 -124.4 0.18 (1)        | 4.47          | P-I   | 0 / 2734                  | 0.34 (1)      |  |
| J-K                   | -3576 / 0                 | -124.4 -124.4 0.26 (1)        | 4.72          | O-I   | -2160 / 0                 | 0.27 (1)      |  |
| K-L                   | 0 / 47                    | -124.4 -124.4 0.09 (1)        | 10.00         | O-J   | 0 / 2596                  | 0.32 (1)      |  |
| W-B                   | -5280 / 0                 | 0.0 0.0 0.19 (1)              | 6.36          | N-J   | -602 / 0                  | 0.08 (1)      |  |
| M-K                   | -3125 / 0                 | 0.0 0.0 0.11 (1)              | 7.80          | B-V   | 0 / 5490                  | 0.68 (1)      |  |
|                       |                           |                               |               | N-K   | 0 / 3054                  | 0.38 (1)      |  |
| W-Y                   | 0 / 0                     | -28.0 -28.0 0.05 (3)          | 10.00         |       |                           |               |  |
| Y-V                   | 0 / 0                     | -28.0 -28.0 0.05 (3)          | 10.00         |       |                           |               |  |
| V-Z                   | 0 / 5311                  | -28.0 -28.0 0.43 (1)          | 10.00         |       |                           |               |  |
| Z-U                   | 0 / 5311                  | -28.0 -28.0 0.43 (1)          | 10.00         |       |                           |               |  |
| U-T                   | 0 / 7397                  | -28.0 -28.0 0.57 (1)          | 10.00         |       |                           |               |  |
| T-S                   | 0 / 7998                  | -28.0 -28.0 0.58 (1)          | 10.00         |       |                           |               |  |
| S-R                   | 0 / 7998                  | -28.0 -28.0 0.58 (1)          | 10.00         |       |                           |               |  |
| R-Q                   | 0 / 6387                  | -28.0 -28.0 0.47 (1)          | 10.00         |       |                           |               |  |
| Q-P                   | 0 / 6387                  | -28.0 -28.0 0.47 (1)          | 10.00         |       |                           |               |  |
| P-O                   | 0 / 4255                  | -28.0 -28.0 0.31 (1)          | 10.00         |       |                           |               |  |
| O-N                   | 0 / 2953                  | -28.0 -28.0 0.20 (1)          | 10.00         |       |                           |               |  |
| N-M                   | 0 / 0                     | -28.0 -28.0 0.03 (3)          | 10.00         |       |                           |               |  |

| FACTORED CONCENTRATED LOADS (LBS) |        |       |       |      |       |      |       |
|-----------------------------------|--------|-------|-------|------|-------|------|-------|
| JT                                | LOC.   | LC1   | MAX.  | MAX+ | FACE  | DIR  | TYPE  |
| C                                 | 4-0-11 | -63   | -70   | ---  | FRONT | VERT | TOTAL |
| C                                 | 4-0-11 | -159  | -159  | ---  | BACK  | VERT | TOTAL |
| C                                 | 4-0-11 | -324  | -324  | ---  | FRONT | VERT | TOTAL |
| U                                 | 6-2-8  | -2642 | -2642 | ---  | BACK  | VERT | TOTAL |
| V                                 | 4-1-6  | -40   | -70   | ---  | BACK  | VERT | TOTAL |
| X                                 | 5-9-4  | -150  | -150  | ---  | BACK  | VERT | TOTAL |
| Y                                 | 2-1-6  | -40   | -70   | ---  | BACK  | VERT | TOTAL |
| Z                                 | 5-9-4  | -40   | -70   | ---  | BACK  | VERT | TOTAL |

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

SPECIFIED LOADS:  
TOP CH. LL = 34.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 60.3 PSF

SPACING = 24.0 IN. C/C

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

\*\*\* NON STANDARD GIRDER \*\*\*  
ADD'L 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 086-09  
- TPC 2011

(55% OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.03")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.22")  
ALLOWABLE DEFL.(TL) = L/960 (1.03")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.36")

CSI: TC=0.47/1.00 (D-E-1), BC=0.58/1.00 (R-T-1), WB=0.68/1.00 (B-V-1), SS=0.13/1.00 (D-E-1)

DCL 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) | (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= 0.88 (V) (INPUT = 0.90)  
JSI METAL= 0.63 (Q) (INPUT = 1.00)

DWG NO. TAM 3678-18  
STRUCTURAL  
COMPONENT ONLY

CONTINUED ON PAGE 2



Tamarack Roof Truss, Burlington

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| R  | BMWWW-t | MT20   | 5.0 | 6.0 |      |      |
| S  | BS-t    | MT20   | 5.0 | 6.0 |      |      |
| T  | BMWW-t  | MT20   | 5.0 | 6.0 |      |      |
| U  | BMWW-t  | MT20   | 4.0 | 9.0 |      |      |
| V  | BMWW-t  | MT20   | 5.0 | 6.0 | 2.50 | 3.25 |
| W  | BMV1+p  | MT20   | 3.0 | 6.0 |      |      |

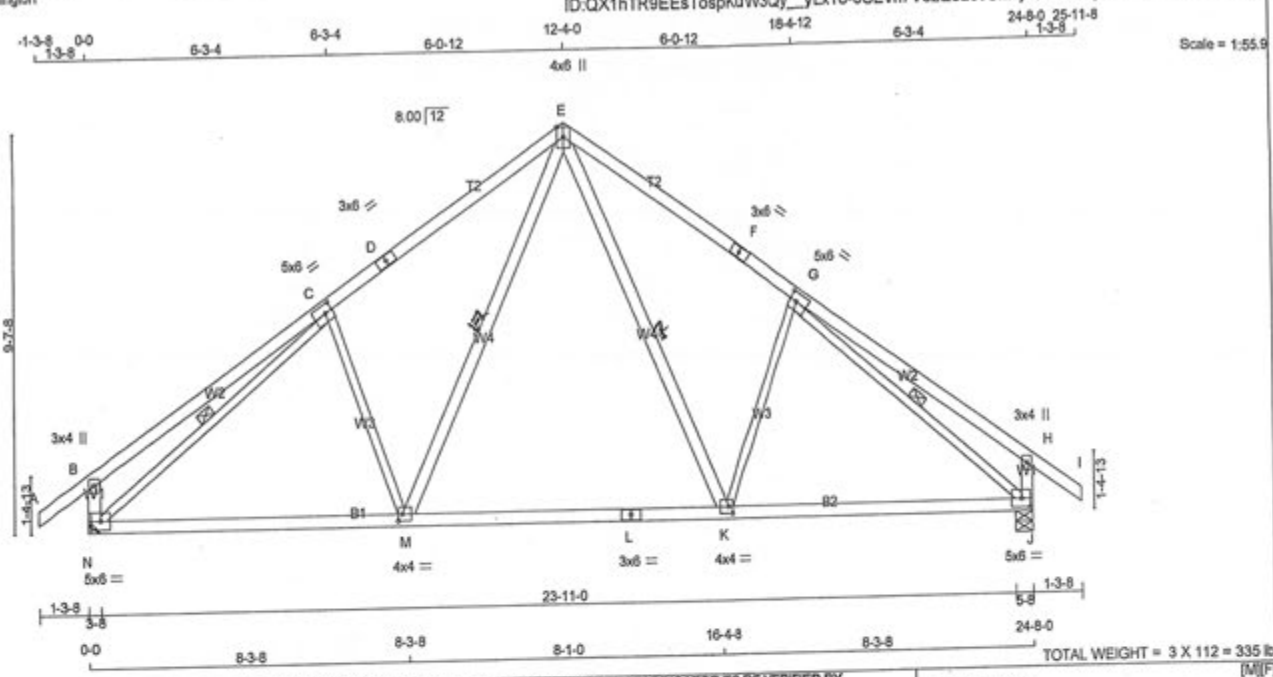
Edge - INDICATES REFERENCE CORNER OF PLATE  
TOUCHES EDGE OF CHORD.

**HANGERS NOTES**

- SPECIAL HANGER(S) OR CONNECTION(S)  
REQUIRED TO SUPPORT CONCENTRATED  
LOAD(S) 386.5 lbs FACTORED DOWN AT 4-0-11,  
AND 159.1 lbs FACTORED DOWN AT 4-0-11,  
AND 149.7 lbs FACTORED DOWN AT 5-9-4 ON  
TOP CHORD, AND 69.9 lbs FACTORED DOWN  
AT 2-1-6, 69.9 lbs FACTORED DOWN AT 4-1-6,  
AND 69.9 lbs FACTORED DOWN AT 5-9-4, AND  
2642.4 lbs FACTORED DOWN AT 6-2-8 ON  
BOTTOM CHORD. DESIGN FOR UNSPECIFIED  
CONNECTION(S) IS DELEGATED TO THE  
BUILDING DESIGNER.



DWG NO. TAM **3670-13**  
STRUCTURAL  
COMPONENT ONLY



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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |        |      |     |               |
|-----------------------------|--------|------|-----|---------------|
| JT TYPE                     | PLATES | W    | LEN | Y X           |
| B                           | TMV+p  | MT20 | 3.0 | 4.0           |
| C                           | TMWW-t | MT20 | 5.0 | 6.0 2.50 2.25 |
| D                           | TS-1   | MT20 | 3.0 | 6.0           |
| E                           | TTWW+p | MT20 | 4.0 | 6.0 Edge      |
| F                           | TS-1   | MT20 | 3.0 | 6.0           |
| G                           | TMWW-t | MT20 | 5.0 | 6.0 2.50 2.25 |
| H                           | TMV+p  | MT20 | 3.0 | 4.0           |
| J                           | BMVW-1 | MT20 | 5.0 | 6.0 2.50 2.75 |
| K                           | BMWW-1 | MT20 | 4.0 | 4.0 2.00 1.25 |
| L                           | BS-1   | MT20 | 3.0 | 6.0           |
| M                           | BMWW-1 | MT20 | 4.0 | 4.0 2.00 1.25 |
| N                           | BMVW-1 | MT20 | 5.0 | 6.0 2.50 2.75 |

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

| DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER                      |           |                         |                  |                                 |                           |           |         |                     |                           |
|--------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|------------------|---------------------------------|---------------------------|-----------|---------|---------------------|---------------------------|
| BEARINGS                                                                                                           |           |                         |                  |                                 |                           |           |         |                     |                           |
|                                                                                                                    |           | FACTORED GROSS REACTION |                  | MAXIMUM FACTORED GROSS REACTION |                           | INPUT BRG |         | REQRD BRG           |                           |
| JT                                                                                                                 |           | VERT                    | HORZ             | DOWN                            | HORZ                      | IN-SX     | IN-SX   | HANGER BY OTHERS    |                           |
| N                                                                                                                  | 2050      | 0                       |                  | 2050                            | 0                         | 0         |         | MIN. SEAT SIZE: 3-8 |                           |
| J                                                                                                                  | 2050      | 0                       |                  | 2050                            | 0                         | 0         | 5-8     | 5-8                 |                           |
| UNFACTORED REACTIONS                                                                                               |           |                         |                  |                                 |                           |           |         |                     |                           |
|                                                                                                                    |           | 1ST LCASE               |                  | MAX / MIN COMPONENT REACTIONS   |                           |           |         |                     |                           |
| JT                                                                                                                 |           | COMBINED                | SNOW             | LIVE                            | PERM.LIVE                 | WIND      | DEAD    | SOIL                |                           |
| N                                                                                                                  | 1605      | 954 / 0                 |                  | 259 / 0                         | 0 / 0                     | 0 / 0     | 392 / 0 | 0 / 0               |                           |
| J                                                                                                                  | 1605      | 954 / 0                 |                  | 259 / 0                         | 0 / 0                     | 0 / 0     | 392 / 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 = 3.94 FT.                                                         |           |                         |                  |                                 |                           |           |         |                     |                           |
| MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.                                    |           |                         |                  |                                 |                           |           |         |                     |                           |
| ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.                                         |           |                         |                  |                                 |                           |           |         |                     |                           |
| 1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-N, G-J. <i>E+116K</i>                                                        |           |                         |                  |                                 |                           |           |         |                     |                           |
| END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW |           |                         |                  |                                 |                           |           |         |                     |                           |
| LOADING                                                                                                            |           |                         |                  |                                 |                           |           |         |                     |                           |
| TOTAL LOAD CASES: (4)                                                                                              |           |                         |                  |                                 |                           |           |         |                     |                           |
|                                                                                                                    |           | CHORDS                  |                  | FACTORED                        |                           | WEBS      |         | MAX. FACTORED       |                           |
| MEMB.                                                                                                              |           | MAX. FORCE (LBS)        | VERT. LOAD (PLF) | MAX. VERT. LOAD (LC1)           | MAX. UNBRACED LENGTH (LC) | MEMB.     |         | MAX. FORCE (LBS)    | MAX. UNBRACED LENGTH (LC) |
| FR-TO                                                                                                              |           |                         |                  |                                 |                           | FR-TO     |         |                     |                           |
| A-B                                                                                                                | 0 / 47    |                         | -124.4           | -124.4                          | 0.17 (1)                  | 10.00     | E-K     | 0 / 826             | 0.13 (1)                  |
| B-C                                                                                                                | 0 / 51    |                         | -124.4           | -124.4                          | 0.78 (1)                  | 10.00     | K-G     | -543 / 0            | 0.29 (1)                  |
| C-D                                                                                                                | -1942 / 0 |                         | -124.4           | -124.4                          | 0.70 (1)                  | 3.94      | M-E     | 0 / 826             | 0.13 (1)                  |
| D-E                                                                                                                | -1942 / 0 |                         | -124.4           | -124.4                          | 0.70 (1)                  | 3.94      | C-M     | -543 / 0            | 0.29 (1)                  |
| E-F                                                                                                                | -1942 / 0 |                         | -124.4           | -124.4                          | 0.70 (1)                  | 3.94      | N-C     | -2322 / 0           | 1.00 (1)                  |
| F-G                                                                                                                | -1942 / 0 |                         | -124.4           | -124.4                          | 0.70 (1)                  | 3.94      | G-J     | -2322 / 0           | 1.00 (1)                  |
| G-H                                                                                                                | 0 / 51    |                         | -124.4           | -124.4                          | 0.78 (1)                  | 10.00     |         |                     |                           |
| H-I                                                                                                                | 0 / 47    |                         | -124.4           | -124.4                          | 0.17 (1)                  | 10.00     |         |                     |                           |
| N-B                                                                                                                | -460 / 0  |                         | 0.0              | 0.0                             | 0.05 (1)                  | 7.81      |         |                     |                           |
| J-H                                                                                                                | -460 / 0  |                         | 0.0              | 0.0                             | 0.05 (1)                  | 7.81      |         |                     |                           |
| N-M                                                                                                                | 0 / 1776  |                         | -28.0            | -28.0                           | 0.63 (2)                  | 10.00     |         |                     |                           |
| M-L                                                                                                                | 0 / 1240  |                         | -28.0            | -28.0                           | 0.59 (3)                  | 10.00     |         |                     |                           |
| L-K                                                                                                                | 0 / 1240  |                         | -28.0            | -28.0                           | 0.59 (3)                  | 10.00     |         |                     |                           |
| K-J                                                                                                                | 0 / 1776  |                         | -28.0            | -28.0                           | 0.63 (2)                  | 10.00     |         |                     |                           |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
 TOP CH. LL = 34.8 PSF  
 DL = 8.0 PSF  
 BOT CH. LL = 10.5 PSF  
 DL = 7.0 PSF  
 TOTAL LOAD = 60.3 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 086-09  
 - TPIC 2011

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.82")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.18")  
 ALLOWABLE DEFL.(LL) = L/360 (0.82")  
 CALCULATED VERT. DEFL.(LL) = L/954 (0.31")

CSI: TC=0.78/1.00 (B-C:1), BC=0.63/1.00 (M-N:2), WB=1.00/1.00 (C-N:1), SSI=0.31/1.00 (E-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

AUTOSOLVE HEELS OFF

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

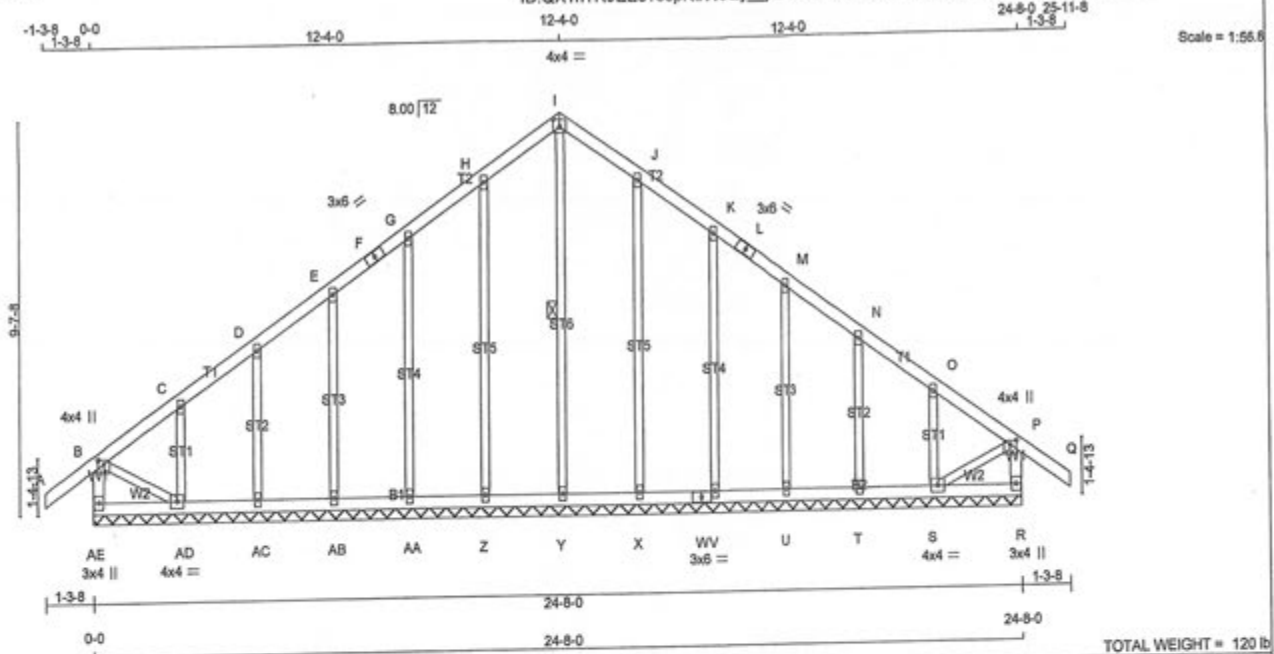
**NAIL VALUES**  
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
 MAX MIN MAX MIN MAX MIN  
 MT20 618 354 1667 822 2284 1655

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (J) (INPUT = 0.90)  
 JSI METAL= 0.60 (G) (INPUT = 1.00)





**LUMBER**  
N.L.G.A. RULES  
CHORDS SIZE LUMBER DESCR.

|                       |     |     |      |     |
|-----------------------|-----|-----|------|-----|
| AE-B                  | 2x4 | DRY | No.2 | SPF |
| A-F                   | 2x4 | DRY | No.2 | SPF |
| F-I                   | 2x4 | DRY | No.2 | SPF |
| I-L                   | 2x4 | DRY | No.2 | SPF |
| L-Q                   | 2x4 | DRY | No.2 | SPF |
| R-P                   | 2x4 | DRY | No.2 | SPF |
| AE-W                  | 2x4 | DRY | No.2 | SPF |
| W-R                   | 2x4 | DRY | No.2 | SPF |
| ALL WEBS              | 2x3 | DRY | No.2 | SPF |
| ALL GABLE WEBS        | 2x3 | DRY | No.2 | SPF |
| DRY: SEASONED LUMBER. |     |     |      |     |

GABLE STUDS SPACED AT 2'-0" OC.

**PLATES (table is in inches)**

| JT TYPE                      | PLATES | W   | LEN | Y    | X    |
|------------------------------|--------|-----|-----|------|------|
| B TMVW+p                     | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| C, D, E, G, H, J, K, M, N, O |        |     |     |      |      |
| C TMVW+p                     | MT20   | 2.0 | 4.0 |      |      |
| F TS-1                       | MT20   | 3.0 | 6.0 |      |      |
| I TTW-p                      | MT20   | 4.0 | 4.0 | 2.25 | 2.00 |
| L TS-1                       | MT20   | 3.0 | 6.0 |      |      |
| P TMVW+p                     | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| R BMV1+p                     | MT20   | 3.0 | 4.0 |      |      |
| S BMVW1-1                    | MT20   | 4.0 | 4.0 |      |      |
| T, U, V, X, Y, Z, AA, AB, AC |        |     |     |      |      |
| T BMV1+w                     | MT20   | 2.0 | 4.0 |      |      |
| W BS-1                       | MT20   | 3.0 | 6.0 |      |      |
| AD BMVW1-1                   | MT20   | 4.0 | 4.0 |      |      |
| AE BMV1+p                    | MT20   | 3.0 | 4.0 |      |      |

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.  
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.  
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)  
**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.  
1 LATERAL BRACE(S) AT 1/2 LENGTH OF I-Y.  
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

**LOADING**

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS        |                        |                | WEBS          |                |                |
|-------|---------------|------------------------|----------------|---------------|----------------|----------------|
|       | MAX. FACTORED | FACTORED               | MAX. FACTORED  | MAX. FACTORED | MAX. FACTORED  | MAX. FACTORED  |
|       | FORCE (LBS)   | VERT. LOAD (PLF)       | LC1 MAX. (LBS) | FORCE (LBS)   | LC1 MAX. (LBS) | LC1 MAX. (LBS) |
| FR-TO |               | FROM TO                |                | FR-TO         |                |                |
| AE-B  | -335 / 0      | 0.0 0.0 0.03 (1)       | 7.81           | Y-I           | -180 / 0       | 0.11 (1)       |
| A-B   | 0 / 47        | -124.4 -124.4 0.17 (1) | 10.00          | Z-H           | -282 / 0       | 0.38 (1)       |
| B-C   | -40 / 0       | -124.4 -124.4 0.08 (1) | 6.25           | AA-G          | -240 / 0       | 0.20 (1)       |
| C-D   | -50 / 0       | -124.4 -124.4 0.08 (1) | 6.25           | AB-E          | -250 / 0       | 0.12 (1)       |
| D-E   | -36 / 0       | -124.4 -124.4 0.06 (1) | 6.25           | AC-D          | -231 / 0       | 0.08 (1)       |
| E-F   | -34 / 0       | -124.4 -124.4 0.06 (1) | 6.25           | AD-C          | -298 / 0       | 0.05 (1)       |
| F-G   | -34 / 0       | -124.4 -124.4 0.06 (1) | 6.25           | X-J           | -282 / 0       | 0.38 (1)       |
| G-H   | -27 / 0       | -124.4 -124.4 0.07 (1) | 6.25           | V-K           | -240 / 0       | 0.20 (1)       |
| H-I   | -40 / 0       | -124.4 -124.4 0.07 (1) | 6.25           | U-M           | -250 / 0       | 0.12 (1)       |
| I-J   | -40 / 0       | -124.4 -124.4 0.07 (1) | 6.25           | T-N           | -231 / 0       | 0.06 (1)       |
| J-K   | -27 / 0       | -124.4 -124.4 0.07 (1) | 6.25           | S-O           | -298 / 0       | 0.05 (1)       |
| K-L   | -34 / 0       | -124.4 -124.4 0.06 (1) | 6.25           | B-AD          | 0 / 50         | 0.01 (1)       |
| L-M   | -34 / 0       | -124.4 -124.4 0.06 (1) | 6.25           | S-P           | 0 / 50         | 0.01 (1)       |
| M-N   | -36 / 0       | -124.4 -124.4 0.06 (1) | 6.25           |               |                |                |
| N-O   | -50 / 0       | -124.4 -124.4 0.08 (1) | 6.25           |               |                |                |
| O-P   | -40 / 0       | -124.4 -124.4 0.08 (1) | 6.25           |               |                |                |
| P-Q   | 0 / 47        | -124.4 -124.4 0.17 (1) | 10.00          |               |                |                |
| R-P   | -335 / 0      | 0.0 0.0 0.03 (1)       | 7.81           |               |                |                |
| AE-AD | 0 / 0         | -28.0 -28.0 0.04 (3)   | 10.00          |               |                |                |
| AD-AC | 0 / 36        | -28.0 -28.0 0.04 (3)   | 10.00          |               |                |                |
| AC-AB | 0 / 31        | -28.0 -28.0 0.03 (3)   | 10.00          |               |                |                |
| AB-AA | 0 / 28        | -28.0 -28.0 0.03 (3)   | 10.00          |               |                |                |
| AA-Z  | 0 / 25        | -28.0 -28.0 0.03 (3)   | 10.00          |               |                |                |
| Z-Y   | 0 / 22        | -28.0 -28.0 0.03 (3)   | 10.00          |               |                |                |
| Y-X   | 0 / 22        | -28.0 -28.0 0.03 (3)   | 10.00          |               |                |                |
| X-W   | 0 / 25        | -28.0 -28.0 0.03 (3)   | 10.00          |               |                |                |
| W-V   | 0 / 25        | -28.0 -28.0 0.03 (3)   | 10.00          |               |                |                |
| V-U   | 0 / 28        | -28.0 -28.0 0.03 (3)   | 10.00          |               |                |                |
| U-T   | 0 / 31        | -28.0 -28.0 0.03 (3)   | 10.00          |               |                |                |
| T-S   | 0 / 36        | -28.0 -28.0 0.04 (3)   | 10.00          |               |                |                |
| S-R   | 0 / 0         | -28.0 -28.0 0.04 (3)   | 10.00          |               |                |                |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 34.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 60.3 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, CBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.17/1.00 (P-Q:1), BC=0.04/1.00 (AC-AD:3), WB=0.38/1.00 (H-Z:1), SSI=0.11/1.00 (P-Q: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 RIGHT HEEL ONLY

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

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1657 822 2284 1655

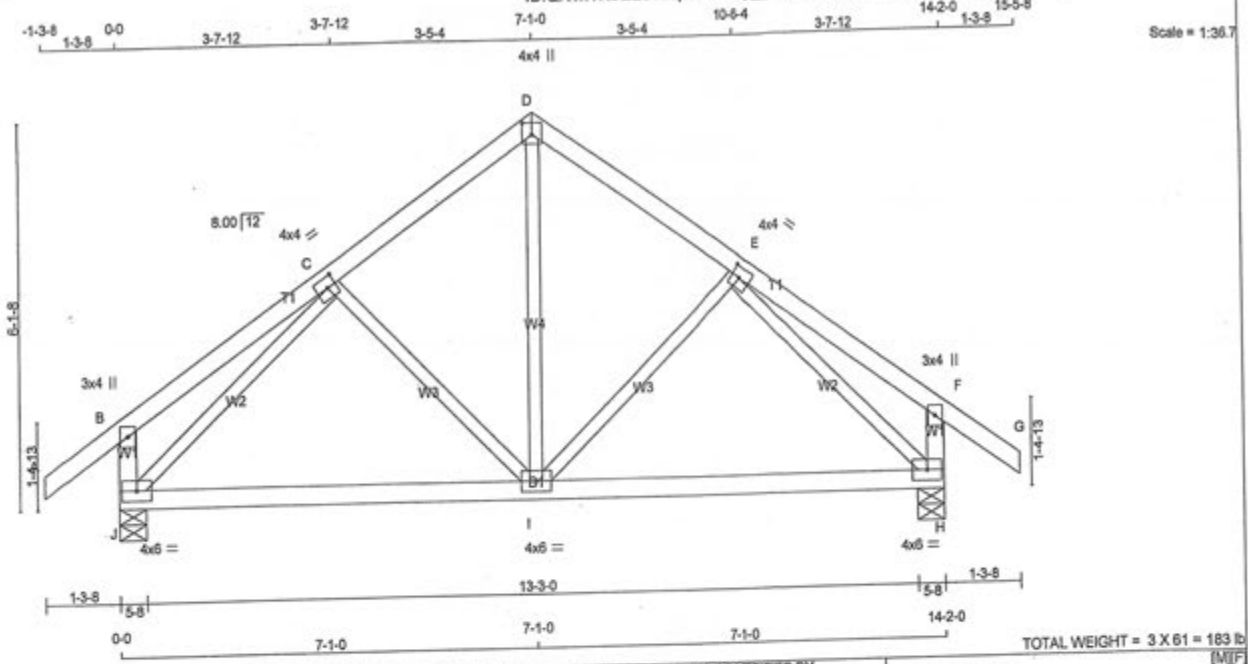
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.53 (AD) (INPUT = 0.90 )  
JSI METAL= 0.07 (O) (INPUT = 1.00 )



DWG NO. TAM 3680-18  
STRUCTURAL  
COMPONENT ONLY



TOTAL WEIGHT = 3 X 61 = 183 lb (MIP)

| 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) | W   | LEN | Y    | X    |
|-----------------------------|-----|-----|------|------|
| JT TYPE PLATES              | 3.0 | 4.0 |      |      |
| B TMV+p MT20                | 4.0 | 4.0 | 2.00 | 1.75 |
| C TMWW-1 MT20               | 4.0 | 4.0 | 2.25 | 2.00 |
| D TTW+p MT20                | 4.0 | 4.0 | 2.00 | 1.75 |
| E TMWW-1 MT20               | 4.0 | 4.0 |      |      |
| F TMV+p MT20                | 3.0 | 4.0 |      |      |
| H BMVW1-1 MT20              | 4.0 | 6.0 |      |      |
| I BMWW-1 MT20               | 4.0 | 6.0 |      |      |
| J BMVW1-1 MT20              | 4.0 | 6.0 |      |      |

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT | REQRD  |
|----------|----------------|------------------|-------|--------|
|          | GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
| JT       | VERT           | DOWN             | HORZ  | UPLIFT |
| J        | 1250           | 0                | 0     | 5-8    |
| H        | 1250           | 0                | 0     | 5-8    |

| UNFACTORED REACTIONS | 1ST LCASE | MAX     | MIN     | COMPONENT REACTIONS |
|----------------------|-----------|---------|---------|---------------------|
| JT                   | COMBINED  | SNOW    | LIVE    | PERM                |
| J                    | 972       | 588 / 0 | 149 / 0 | 0 / 0               |
| H                    | 972       | 588 / 0 | 149 / 0 | 0 / 0               |

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

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

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

## LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.    | MAX. FACTORED | FACTORED | VERT. LOAD | LC1 | MAX   | MAX   | MEMB. | MAX. FACTORED | WEBS | MAX. FACTORED |
|--------|----------|---------------|----------|------------|-----|-------|-------|-------|---------------|------|---------------|
|        |          | (LBS)         | (PLF)    |            |     | (LBS) | (LBS) |       | (LBS)         |      | (LBS)         |
| FR-TO  |          |               |          |            |     |       |       | FR-TO |               |      |               |
| A-B    | 0 / 47   | -124.4        | -124.4   | 0.17       | (1) | 10.00 | 10.00 | I-D   | 0 / 574       | 0.13 | (1)           |
| B-C    | 0 / 28   | -124.4        | -124.4   | 0.24       | (1) | 10.00 | 10.00 | I-E   | -237 / 117    | 0.10 | (1)           |
| C-D    | -853 / 0 | -124.4        | -124.4   | 0.19       | (1) | 6.25  | 6.25  | C-I   | -237 / 117    | 0.10 | (1)           |
| D-E    | -853 / 0 | -124.4        | -124.4   | 0.19       | (1) | 6.25  | 6.25  | J-C   | -1196 / 0     | 0.46 | (1)           |
| E-F    | 0 / 28   | -124.4        | -124.4   | 0.24       | (1) | 10.00 | 10.00 | E-H   | -1196 / 0     | 0.46 | (1)           |
| F-G    | 0 / 47   | -124.4        | -124.4   | 0.17       | (1) | 10.00 | 10.00 |       |               |      |               |
| J-B    | -340 / 0 | 0.0           | 0.0      | 0.04       | (1) | 7.81  | 7.81  |       |               |      |               |
| H-F    | -340 / 0 | 0.0           | 0.0      | 0.04       | (1) | 7.81  | 7.81  |       |               |      |               |
| J-I    | 0 / 857  | -28.0         | -28.0    | 0.52       | (3) | 10.00 | 10.00 |       |               |      |               |
| I-H    | 0 / 857  | -28.0         | -28.0    | 0.52       | (3) | 10.00 | 10.00 |       |               |      |               |

## DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 34.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 60.3 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 CBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 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=0.24/1.00 (E-F:1), BC=0.52/1.00 (I-J:3), WB=0.48/1.00 (E-H:1), SSI=0.19/1.00 (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 1687 822 2284 1656

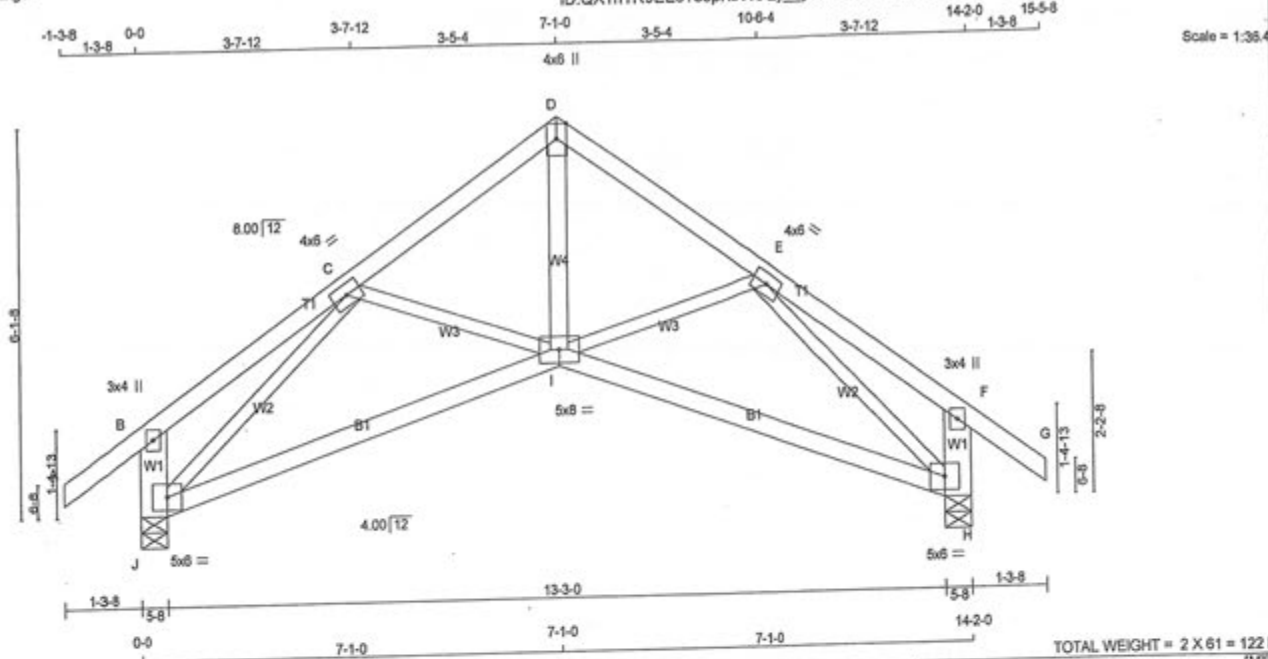
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.89 (C) (INPUT = 0.90)  
JSI METAL = 0.42 (E) (INPUT = 1.00)



DRWG NO. TAM 368 / -18  
STRUCTURAL  
COMPONENT ONLY



**LUMBER**  
N. L. G. A. RULES  
CHORDS SIZE  
A - D 2x4 DRY No.2  
E - G 2x4 DRY No.2  
H - F 2x6 DRY No.2  
I - I 2x4 DRY No.2  
J - H 2x4 DRY No.2

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

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 IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| J  | 1250                    | 0    | 1250                            | 0    | 5-8             | 5-8            |
| H  | 1250                    | 0    | 1250                            | 0    | 5-8             | 5-8            |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | MAX/MIN COMPONENT REACTIONS |         | WIND  | DEAD    | SOIL  |
|----|-----------|-----------------------------|---------|-------|---------|-------|
|    |           | SNOW                        | LIVE    |       |         |       |
| J  | 972       | 588 / 0                     | 149 / 0 | 0 / 0 | 234 / 0 | 0 / 0 |
| H  | 972       | 588 / 0                     | 149 / 0 | 0 / 0 | 234 / 0 | 0 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.46 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED LC1 (LBS) | MAX. FACTORED CS1 (LBS) | MAX. FACTORED UNBRACED LENGTH (FT) | WEBS                      |                         |
|-------|----------------------------------|---------------------------|-------------------------|-------------------------|------------------------------------|---------------------------|-------------------------|
|       |                                  |                           |                         |                         |                                    | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CS1 (LBS) |
| FR-TO |                                  |                           |                         |                         |                                    |                           |                         |
| A-B   | 0 / 47                           | -124.4                    | -124.4                  | 0.17 (1)                | 10.00                              | I-D                       | 0 / 1073                |
| B-C   | 0 / 25                           | -124.4                    | -124.4                  | 0.22 (1)                | 10.00                              | I-E                       | -128 / 66               |
| C-D   | -1307 / 0                        | -124.4                    | -124.4                  | 0.19 (1)                | 5.46                               | C-I                       | -128 / 66               |
| D-E   | -1307 / 0                        | -124.4                    | -124.4                  | 0.19 (1)                | 5.46                               | J-C                       | -1688 / 0               |
| E-F   | 0 / 25                           | -124.4                    | -124.4                  | 0.22 (1)                | 10.00                              | E-H                       | -1688 / 0               |
| F-G   | 0 / 47                           | -124.4                    | -124.4                  | 0.17 (1)                | 10.00                              |                           |                         |
| J-B   | -346 / 0                         | 0.0                       | 0.0                     | 0.02 (1)                | 7.81                               |                           |                         |
| H-F   | -346 / 0                         | 0.0                       | 0.0                     | 0.02 (1)                | 7.81                               |                           |                         |
| J-I   | 0 / 1251                         | -28.0                     | -28.0                   | 0.54 (3)                | 10.00                              |                           |                         |
| I-H   | 0 / 1251                         | -28.0                     | -28.0                   | 0.54 (3)                | 10.00                              |                           |                         |

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y | X    |
|----|---------|--------|-----|-----|---|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |   |      |
| C  | TMWW-I  | MT20   | 4.0 | 6.0 |   |      |
| D  | TTW+p   | MT20   | 4.0 | 6.0 |   | Edge |
| E  | TMWW-I  | MT20   | 4.0 | 6.0 |   |      |
| F  | TMV+p   | MT20   | 3.0 | 4.0 |   |      |
| H  | BMWW1-p | MT20   | 5.0 | 6.0 |   |      |
| I  | BMWW1-p | MT20   | 5.0 | 6.0 |   |      |
| J  | BMWW1-p | MT20   | 5.0 | 6.0 |   |      |

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

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 34.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 60.3 PSF

**SPACING = 24.0 IN. CC**

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 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) =  $L/360$  (0.47")  
CALCULATED VERT. DEFL. (LL) =  $L/910$  (0.19")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.47")  
CALCULATED VERT. DEFL. (TL) =  $L/543$  (0.31")

CS1: TC=0.22/1.00 (E-F:1), BC=0.54/1.00 (I-J:3), WB=0.64/1.00 (E-H:1), SSI=0.17/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

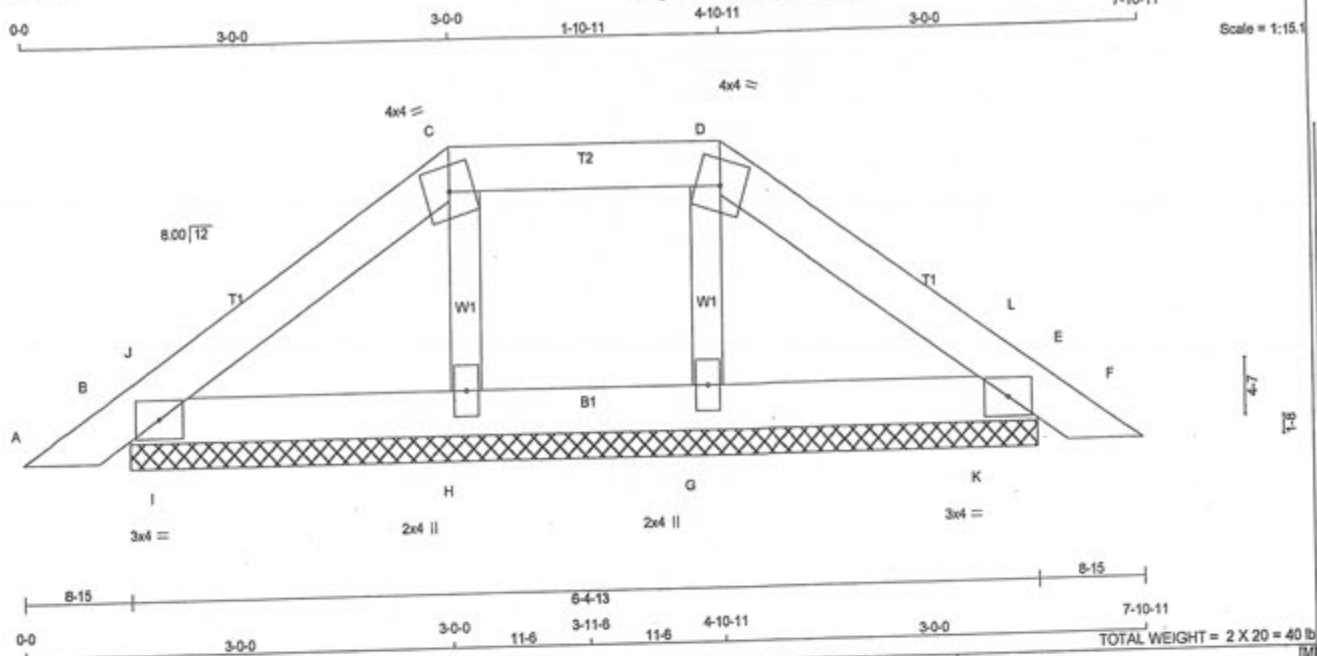
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (H) (INPUT = 0.90)  
JSI METAL= 0.39 (E) (INPUT = 1.00)



DRWG NO. TAM3682-13  
STRUCTURAL  
COMPONENT ONLY



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

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y | X |
|----|--------|--------|-----|-----|---|---|
| B  | TMB1-4 | MT20   | 3.0 | 4.0 |   |   |
| C  | TTW-m  | MT20   | 4.0 | 4.0 |   |   |
| D  | TTW-m  | MT20   | 4.0 | 4.0 |   |   |
| E  | TMB1-4 | MT20   | 3.0 | 4.0 |   |   |
| G  | BMV1+w | MT20   | 2.0 | 4.0 |   |   |
| H  | BMV1+w | MT20   | 2.0 | 4.0 |   |   |

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

**BEARINGS**

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| B  | 292                     | 0    | 292                             | 0    | 6-4-13    | 6-4-13   |
| E  | 292                     | 0    | 292                             | 0    | 6-4-13    | 6-4-13   |
| H  | 278                     | 0    | 278                             | 0    | 6-4-13    | 6-4-13   |
| G  | 278                     | 0    | 278                             | 0    | 6-4-13    | 6-4-13   |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX/MIN COMPONENT REACTIONS |      |           |      |      |      |
|----|--------------------|-----------------------------|------|-----------|------|------|------|
|    |                    | SNOW                        | LIVE | PERM/LIVE | WIND | DEAD | SOIL |
| B  | 219                | 146/0                       | 24/0 | 0/0       | 0/0  | 49/0 | 0/0  |
| E  | 219                | 146/0                       | 24/0 | 0/0       | 0/0  | 49/0 | 0/0  |
| H  | 224                | 123/0                       | 44/0 | 0/0       | 0/0  | 57/0 | 0/0  |
| G  | 224                | 123/0                       | 44/0 | 0/0       | 0/0  | 57/0 | 0/0  |

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

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

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

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

| MEMB. | CHORDS                    | FACTORED         |                   |                      | WEBS  |                           |                  |
|-------|---------------------------|------------------|-------------------|----------------------|-------|---------------------------|------------------|
|       | MAX. FACTORED FORCE (LBS) | 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   | 0/21                      | -124.4           | -124.4            | 0.04 (1)             | 10.00 | H-C                       | -191/0 0.03 (1)  |
| B-J   | -89/0                     | -124.4           | -124.4            | 0.01 (3)             | 6.25  | G-D                       | -191/0 0.03 (1)  |
| J-C   | -82/0                     | -124.4           | -124.4            | 0.08 (1)             | 6.25  | I-J                       | -160/17 0.00 (1) |
| C-D   | -53/0                     | -124.4           | -124.4            | 0.08 (1)             | 6.25  | K-L                       | -160/17 0.00 (1) |
| D-L   | -82/0                     | -124.4           | -124.4            | 0.08 (1)             | 6.25  |                           |                  |
| L-E   | -89/0                     | -124.4           | -124.4            | 0.01 (3)             | 6.25  |                           |                  |
| E-F   | 0/21                      | -124.4           | -124.4            | 0.04 (1)             | 10.00 |                           |                  |
| B-I   | 0/86                      | -28.0            | -28.0             | 0.08 (1)             | 10.00 |                           |                  |
| I-H   | 0/66                      | -28.0            | -28.0             | 0.08 (1)             | 10.00 |                           |                  |
| H-G   | 0/53                      | -28.0            | -28.0             | 0.04 (1)             | 10.00 |                           |                  |
| G-K   | 0/66                      | -28.0            | -28.0             | 0.08 (1)             | 10.00 |                           |                  |
| K-E   | 0/66                      | -28.0            | -28.0             | 0.06 (1)             | 10.00 |                           |                  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 34.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 60.3 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, BCRC 2012, ABC 2014  
- CSA 088-09  
- TPIC 2011

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.08/1.00 (C-D:1), BC=0.08/1.00 (G-K:1), WB=0.03/1.00 (D-G:1), SS=0.13/1.00 (E-K:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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 622 2284 1656

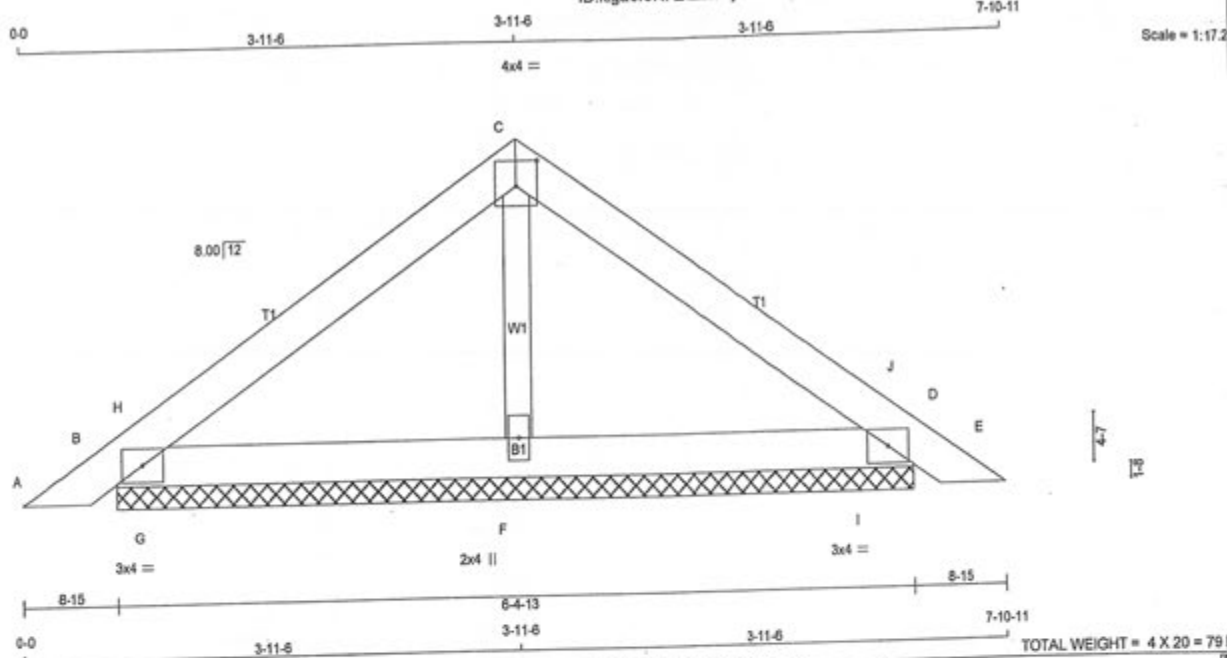
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.22 (B) (INPUT = 0.90)  
JSI METAL= 0.05 (E) (INPUT = 1.00)



DWG NO. TAM 3666-38  
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    |        |
| B - D    | 2x4              | DRY    | No.2 | SPF    |        |
| ALL WEBS | 2x3              | DRY    | No.2 | SPF    |        |
| DRY:     | SEASONED LUMBER. |        |      |        |        |

| PLATES (table is in inches) | W    | LEN | Y   | X         |
|-----------------------------|------|-----|-----|-----------|
| JT TYPE PLATES              |      |     |     |           |
| B TMB1-I                    | MT20 | 3.0 | 4.0 |           |
| C TTW-p                     | MT20 | 4.0 | 4.0 | 2.25 2.00 |
| D TMB1-I                    | MT20 | 3.0 | 4.0 |           |
| F BMW1+w                    | MT20 | 2.0 | 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 IN-SX | REQRD BRG IN-SX |
|----------|-------------------------|------|---------------------------------|------|-----------------|-----------------|
|          | VERT                    | HORZ | DOWN                            | HORZ |                 |                 |
| JT       |                         |      |                                 |      |                 |                 |
| B        | 374                     | 0    | 374                             | 0    | 6-4-13          | 6-4-13          |
| D        | 374                     | 0    | 374                             | 0    | 6-4-13          | 6-4-13          |
| F        | 392                     | 0    | 392                             | 0    | 6-4-13          | 6-4-13          |

| UNFACTORED REACTIONS | 1ST LCASE |         | MAX/MIN COMPONENT REACTIONS |       | WIND  | DEAD   | SOIL  |
|----------------------|-----------|---------|-----------------------------|-------|-------|--------|-------|
|                      | SNOW      | LIVE    | PERM.LIVE                   | WIND  |       |        |       |
| JT                   |           |         |                             |       |       |        |       |
| B                    | 281       | 187 / 0 | 31 / 0                      | 0 / 0 | 0 / 0 | 63 / 0 | 0 / 0 |
| D                    | 281       | 187 / 0 | 31 / 0                      | 0 / 0 | 0 / 0 | 63 / 0 | 0 / 0 |
| F                    | 324       | 164 / 0 | 73 / 0                      | 0 / 0 | 0 / 0 | 87 / 0 | 0 / 0 |

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

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                   |                      | WEBS  |                           |               |  |  |
|--------|---------------------------|---------------------------|-------------------|----------------------|-------|---------------------------|---------------|--|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX. CS1 (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |  |  |
| FR-TO  |                           | FROM TO                   |                   |                      | FR-TO |                           |               |  |  |
| A-B    | 0/21                      | -124.4 -124.4             | 0.04 (1)          | 10.00                | F-C   | -181/0                    | 0.03 (1)      |  |  |
| B-H    | -52/0                     | -124.4 -124.4             | 0.06 (1)          | 6.25                 | G-H   | -345/3                    | 0.00 (1)      |  |  |
| H-C    | -142/0                    | -124.4 -124.4             | 0.15 (1)          | 6.25                 | I-J   | -345/3                    | 0.00 (1)      |  |  |
| C-J    | -142/0                    | -124.4 -124.4             | 0.15 (1)          | 6.25                 |       |                           |               |  |  |
| J-D    | -62/0                     | -124.4 -124.4             | 0.06 (1)          | 6.25                 |       |                           |               |  |  |
| D-E    | 0/21                      | -124.4 -124.4             | 0.04 (1)          | 10.00                |       |                           |               |  |  |
|        |                           |                           |                   |                      |       |                           |               |  |  |
| B-G    | 0/111                     | -28.0 -28.0               | 0.15 (1)          | 10.00                |       |                           |               |  |  |
| G-F    | 0/111                     | -28.0 -28.0               | 0.15 (1)          | 10.00                |       |                           |               |  |  |
| F-I    | 0/111                     | -28.0 -28.0               | 0.15 (1)          | 10.00                |       |                           |               |  |  |
| I-D    | 0/111                     | -28.0 -28.0               | 0.15 (1)          | 10.00                |       |                           |               |  |  |

#### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 34.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 60.3 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 CBC 2012, BCBC 2012, ABC 2014  
- CSA 085-09  
- TPIC 2011

(55% OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CS1: TC=0.15/1.00 (C-J:1), BC=0.15/1.00 (F-I:1), WB=0.03/1.00 (C-F:1), SS=0.28/1.00 (D-I:1)

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

COMPANION LIVE LOAD FACTOR = 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= 0.31 (B) (INPUT = 0.90)  
JSI METAL= 0.08 (D) (INPUT = 1.00)



DWG NO. TAM 3667 -18  
STRUCTURAL  
COMPONENT ONLY

# LUS – Double Shear Joist Hangers

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

**Material:** 18 gauge

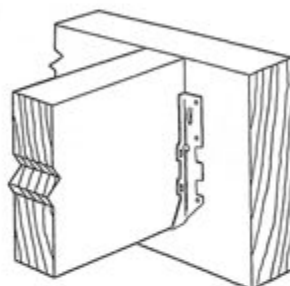
**Finish:** G90 galvanized

**Design:**

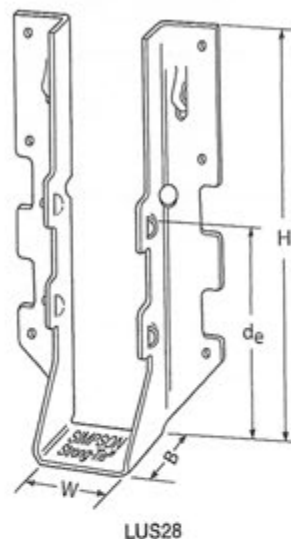
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

**Installation:**

- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3½" long common wire,  
10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.



Typical LUS Installation



LUS28

| Model No. | Ga. | Dimensions (in.) |    |    |                             | Fasteners |         | Factored Resistance (lb.) |        |        |        |
|-----------|-----|------------------|----|----|-----------------------------|-----------|---------|---------------------------|--------|--------|--------|
|           |     | W                | H  | B  | d <sub>e</sub> <sup>1</sup> | Face      | Joist   | D-Fir-L                   |        | S-P-F  |        |
|           |     |                  |    |    |                             |           |         | Uplift                    | Normal | Uplift | Normal |
| LUS24     | 18  | 1½               | 3½ | 1½ | 1½                          | (4) 10d   | (2) 10d | 710                       | 1630   | 645    | 1155   |
| LUS24-2   | 18  | 3½               | 3½ | 2  | 1½                          | (4) 16d   | (2) 16d | 835                       | 2020   | 590    | 1435   |
| LUS26     | 18  | 1½               | 4½ | 1½ | 3½                          | (4) 10d   | (4) 10d | 1420                      | 2170   | 1290   | 1630   |
| LUS26-2   | 18  | 3½               | 4½ | 2  | 4                           | (4) 16d   | (4) 16d | 1720                      | 2595   | 1545   | 1920   |
| LUS26-3   | 18  | 4½               | 4½ | 2  | 3½                          | (4) 16d   | (4) 16d | 1720                      | 2595   | 1545   | 2340   |
| LUS28     | 18  | 1½               | 6½ | 1½ | 3½                          | (6) 10d   | (6) 10d | 1420                      | 2520   | 1290   | 1790   |
| LUS28-2   | 18  | 3½               | 7  | 2  | 4                           | (6) 16d   | (4) 16d | 1720                      | 3325   | 1545   | 2575   |
| LUS28-3   | 18  | 4½               | 6½ | 2  | 3½                          | (6) 16d   | (4) 16d | 1720                      | 3325   | 1545   | 2375   |
| LUS210    | 18  | 1½               | 7½ | 1½ | 3½                          | (8) 10d   | (4) 10d | 1420                      | 2785   | 1290   | 2210   |
| LUS210-2  | 18  | 3½               | 9  | 2  | 6                           | (8) 16d   | (6) 16d | 2580                      | 4500   | 2320   | 3195   |
| LUS210-3  | 18  | 4½               | 8½ | 2  | 5½                          | (8) 16d   | (6) 16d | 2580                      | 3345   | 2320   | 2375   |

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



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



Double Shear Nailing Top View.



**LIMIT STATES DESIGN**

This technical bulletin is effective until June 30, 2019, and reflects information available as of March 1, 2017. This information is updated periodically and should not be relied upon after June 30, 2019. Contact Simpson Strong-Tie for current information and limited warranty or see [strongtie.com](http://strongtie.com).

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T-SPECLUS17 3/17 exp. 6/19

(800) 999-5099  
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# HGUS – Double Shear Joist Hangers

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

**Material:** 12 gauge

**Finish:** G90 galvanized

**Design:**

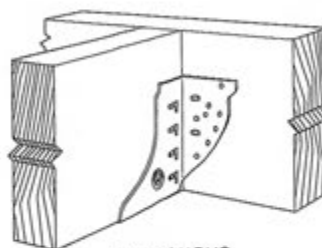
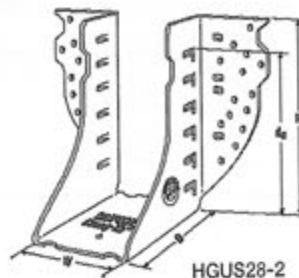
- Factored resistances are in accordance with CSA Q86-14.
- Uplift resistances have been increased 15%.  
No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

**Installation:**

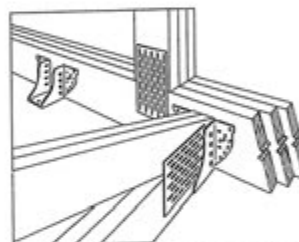
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

**Options:**

- See current catalogue for options



Typical HGUS  
Installation



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

| Model No. | Ga. | Dimensions (in.) |     |   |                             | Fasteners |          | Factored Resistance (lb.)        |                                  |                                  |                                  |
|-----------|-----|------------------|-----|---|-----------------------------|-----------|----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |     | W                | H   | B | d <sub>e</sub> <sup>1</sup> | Face      | Joist    | D.Fir-L                          |                                  | S-P-F                            |                                  |
|           |     |                  |     |   |                             |           |          | Uplift<br>(K <sub>o</sub> =1.15) | Normal<br>(K <sub>o</sub> =1.00) | Uplift<br>(K <sub>o</sub> =1.15) | Normal<br>(K <sub>o</sub> =1.00) |
| HGUS26    | 12  | 1½               | 5½  | 5 | 4½                          | (20) 16d  | (8) 16d  | 2685                             | 6625                             | 2685                             | 5700                             |
| HGUS26-2  | 12  | 3¾               | 5¾  | 4 | 4½                          | (20) 16d  | (8) 16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS26-3  | 12  | 4½               | 5½  | 4 | 4½                          | (20) 16d  | (8) 16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS26-4  | 12  | 6¾               | 5¾  | 4 | 4½                          | (20) 16d  | (8) 16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS28    | 12  | 1½               | 7½  | 5 | 6½                          | (36) 16d  | (12) 16d | 3310                             | 7675                             | 3100                             | 6900                             |
| HGUS28-2  | 12  | 3¾               | 7¾  | 4 | 6½                          | (36) 16d  | (12) 16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-3  | 12  | 4½               | 7¼  | 4 | 6½                          | (36) 16d  | (12) 16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-4  | 12  | 6¾               | 7¾  | 4 | 6½                          | (36) 16d  | (12) 16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS210-2 | 12  | 3¾               | 9¾  | 4 | 8½                          | (46) 16d  | (16) 16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS210-3 | 12  | 4½               | 9¼  | 4 | 8½                          | (46) 16d  | (16) 16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS210-4 | 12  | 6¾               | 9¾  | 4 | 8½                          | (46) 16d  | (16) 16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS212-4 | 12  | 6¾               | 10½ | 4 | 10½                         | (56) 16d  | (20) 16d | 7640                             | 14995                            | 5425                             | 10645                            |
| HGUS214-4 | 12  | 6¾               | 12½ | 4 | 11½                         | (66) 16d  | (22) 16d | 10130                            | 16400                            | 7195                             | 11645                            |

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



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



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



Double  
Shear  
Nailing  
Top View.



LIMIT  
STATES  
DESIGN

This technical bulletin is effective until June 30, 2019, and reflects information available as of March 1, 2017. This information is updated periodically and should not be relied upon after June 30, 2019. Contact Simpson Strong-Tie for current information and limited warranty or see [strongtie.com](http://strongtie.com).

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T-SPECHGUS17 3/17 exp. 6/19

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[strongtie.com](http://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:**

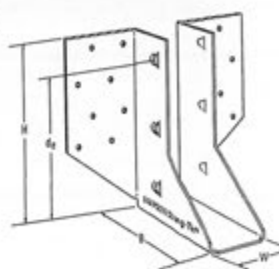
- Factored resistances are in accordance with CSA O86 -14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

**Installation:**

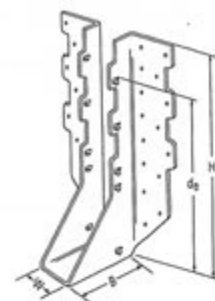
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

**Options:**

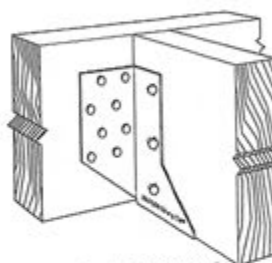
- See current catalogue for options



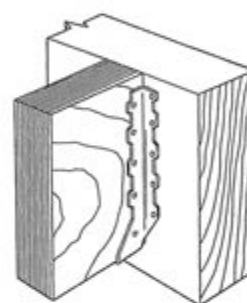
LJS26DS



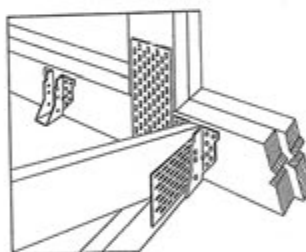
HUS210  
(HUS26, HUS28, similar)



Typical LJS26DS  
Installation



Typical HUS  
Installation



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

| Model No.  | Ga. | Dimensions (in.) |       |       |                             | Fasteners |          | Factored Resistance (lb.)        |                                  |                                  |                                  |
|------------|-----|------------------|-------|-------|-----------------------------|-----------|----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|            |     | W                | H     | B     | d <sub>e</sub> <sup>1</sup> | Face      | Joist    | D.Fir-L                          |                                  | S-P-F                            |                                  |
|            |     |                  |       |       |                             |           |          | Uplift<br>(K <sub>o</sub> =1.15) | Normal<br>(K <sub>o</sub> =1.00) | Uplift<br>(K <sub>o</sub> =1.15) | Normal<br>(K <sub>o</sub> =1.00) |
| LJS26DS    | 18  | 1 1/8            | 5     | 3 1/2 | 4 5/8                       | (16) 16d  | (6) 16d  | 2055                             | 4265                             | 1460                             | 4115                             |
| HUS26      | 16  | 1 1/8            | 5 1/2 | 3     | 3 1/4                       | (14) 16d  | (6) 16d  | 2705                             | 4940                             | 2065                             | 3875                             |
| HUS28      | 16  | 1 1/8            | 7 1/2 | 3     | 6 1/2                       | (22) 16d  | (8) 16d  | 3605                             | 5365                             | 2675                             | 4345                             |
| HUS210     | 16  | 1 1/8            | 9 1/2 | 3     | 7 3/4                       | (30) 16d  | (10) 16d | 4505                             | 5795                             | 4010                             | 4740                             |
| HUS1.81/10 | 16  | 1 1/8            | 9     | 3     | .8                          | (30) 16d  | (10) 16d | 4505                             | 6450                             | 4010                             | 5200                             |

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



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



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



Double Shear Nailing Top View.



LIMIT  
STATES  
DESIGN

This technical bulletin is effective until June 30, 2019, and reflects information available as of March 1, 2017. This information is updated periodically and should not be relied upon after June 30, 2019. Contact Simpson Strong-Tie for current information and limited warranty or see [strongtie.com](http://strongtie.com).

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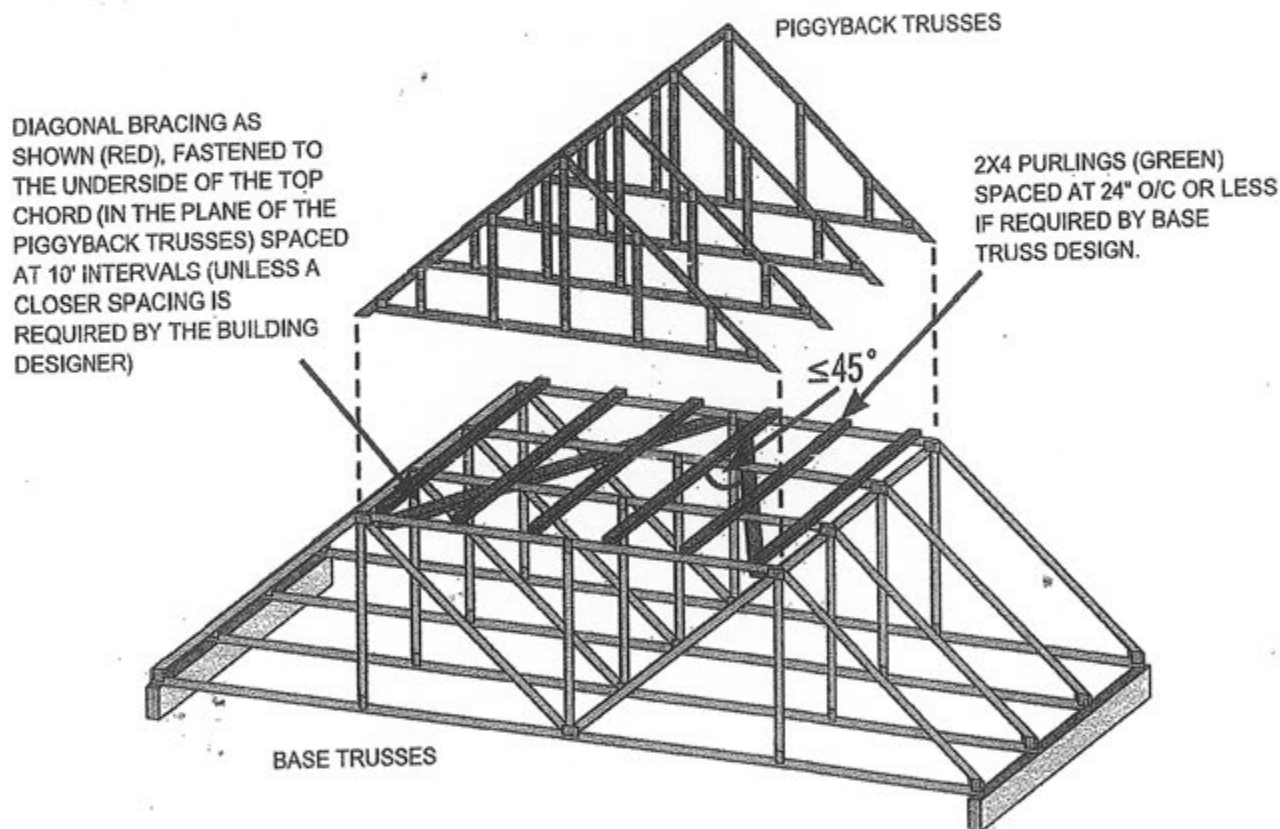
(800) 999-5099  
[strongtie.com](http://strongtie.com)

Overview:

Where piggybacks are connected ovetop of base trusses, 2x4 purlins must be first added to the flat portion of the base truss at a spacing no more than 24" o/c. These purlins not only provide support for the piggyback trusses above, but are required to laterally support the top chord of the base truss which will not have the sheathing directly connected to the flat portion of the base truss. This ensures the top chord, most often in compression, will not buckle laterally.

Further, the purlins in the plane of the flat portion require diagonal bracing to prevent lateral displacement of the purlins themselves where under certain conditions, the trusses may in fact all buckle in the same direction if this additional bracing is not added in the plane of the purlins.

Detail:



NOTE: THE SLOPED PORTION OF THE TOP CHORD OF THE BASE TRUSS AND PIGGYBACK TRUSS IN THIS SKETCH IS ASSUMED TO BE SHEATHED IN ACCORDANCE WITH THE OBC.

SKETCH FROM BCSI-CANADA 2013

Disclaimer:

OWTFA Tech Notes are intended to provide guidance to the design community both within the membership as well as to third party designers who might benefit from the information. The details have been developed by the OWTFA technical committee and although there may be professional engineers involved in development, the information contained in the tech-note are not intended to be used without having a professional engineer review the information for a specific application. The OWTFA takes no responsibility with respect to the information provided but has developed this tech-note to offer guidance where it is not currently readily available.

# MICRO CITY ENGINEERING SERVICES INC.

TEL: (519) 287 - 2242

## LUMBER SPECIFICATION

TOP CHORD : 2x4 SPF#2

BOTTOM CHORD : 2x4 SPF#2

WEBS : 2x3 SPF#2

UNLESS OTHERWISE SHOWN

## DESIGN LOAD:

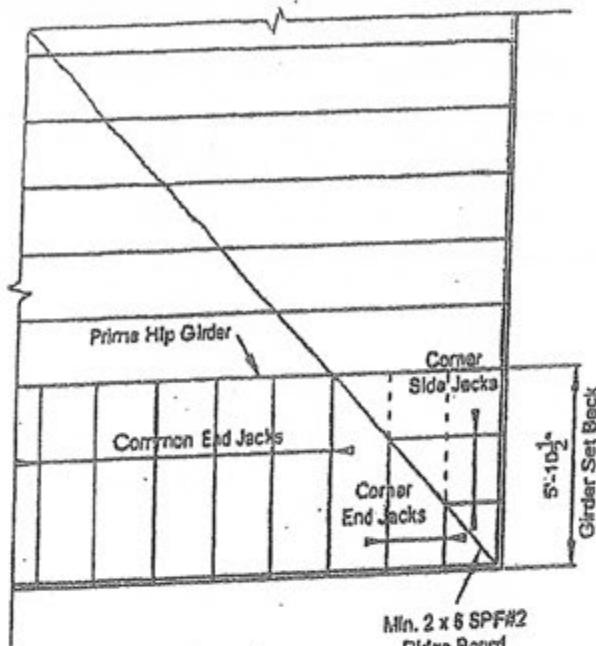
TOP CHORD LIVE LOAD : 34.8 P.S.F.

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

BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.

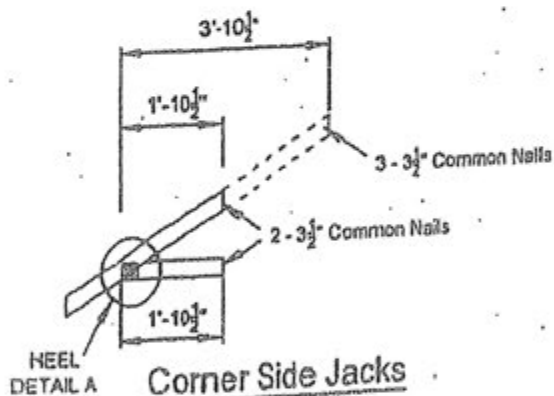
BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

TOTAL LOAD : 44.8 P.S.F.

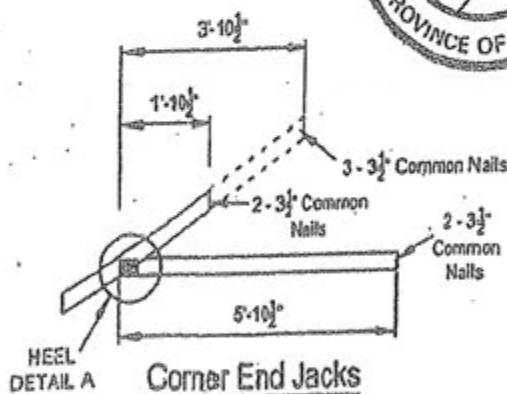


45° Hip End

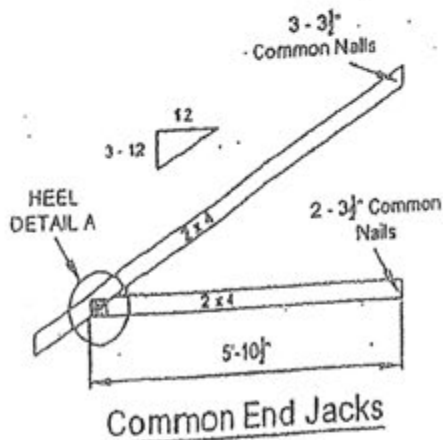
DWG NO TAM 3495.14  
STRUCTURAL  
COMPONENT ONLY



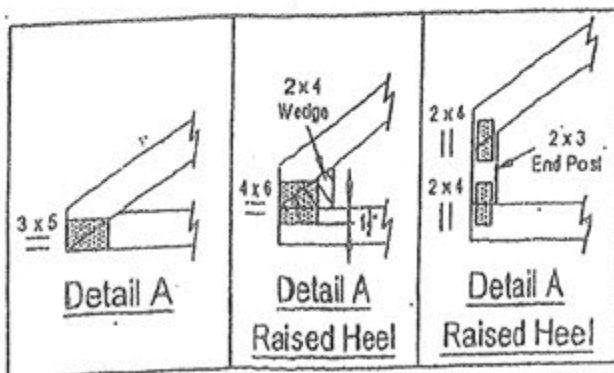
Corner Side Jacks



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)

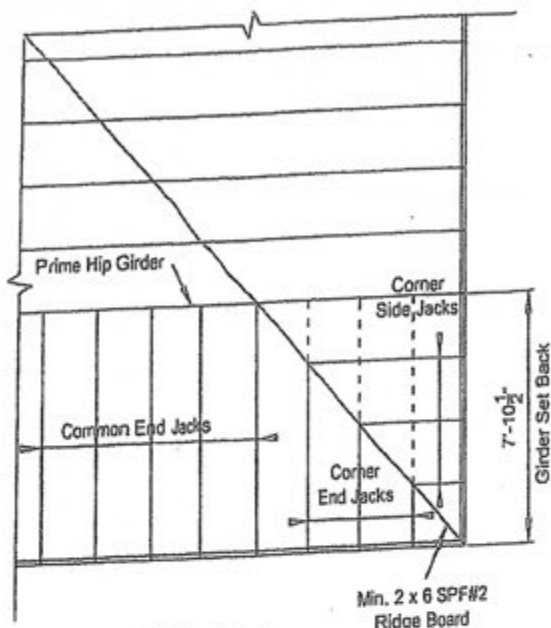
# MICRO CITY ENGINEERING SERVICES INC.

TEL: (519) 287 - 2242

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

## LUMBER SPECIFICATION

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



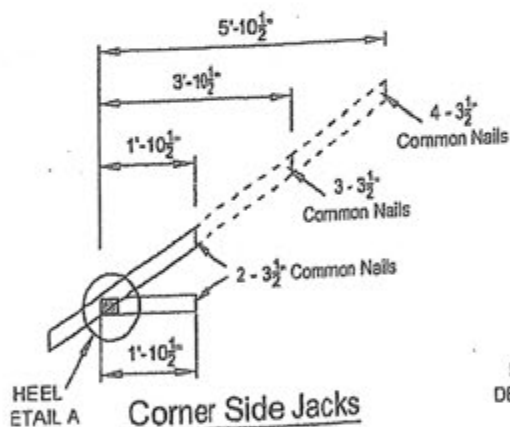
45° Hip End

## DESIGN LOAD:

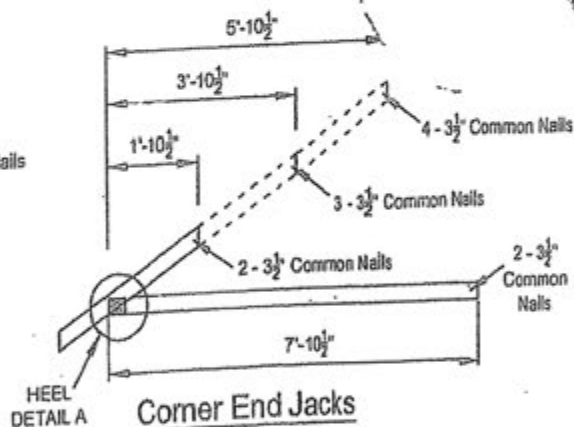
TOP CHORD LIVE LOAD : 34.8 P.S.F.  
TOP CHORD DEAD LOAD : 3.0 P.S.F.  
BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.  
BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

TOTAL LOAD : 44.8 P.S.F.

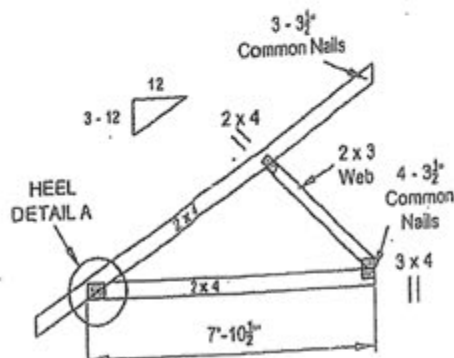
DWG NO TAM 3503.14  
STRUCTURAL  
COMPONENT ONLY



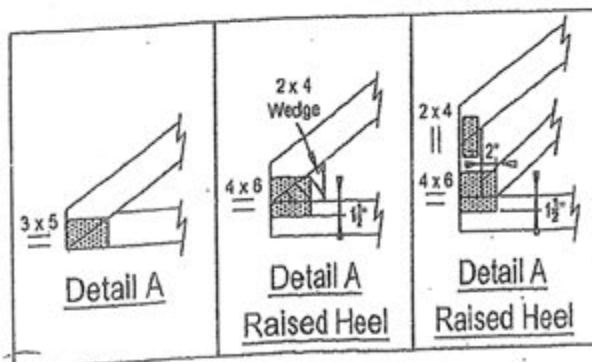
Corner Side Jacks



Corner End Jacks



Common End Jacks



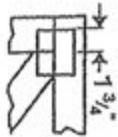
Detail A  
Raised Heel

Detail A  
Raised Heel

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" from outside edge of truss.



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

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

## PLATE SIZE

4 X 4

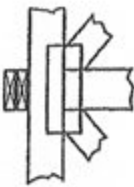
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING

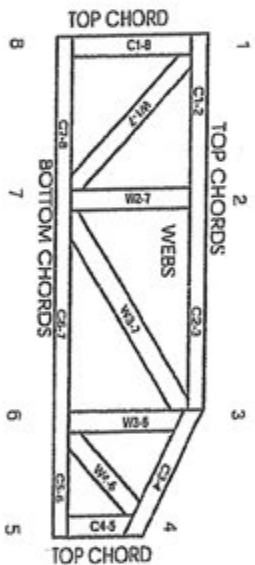


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

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

# Numbering System

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



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

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

## PRODUCT CODE APPROVALS

CCMC Reports:

11986-L, 10318-L, 13270-L, 12691-R

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# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

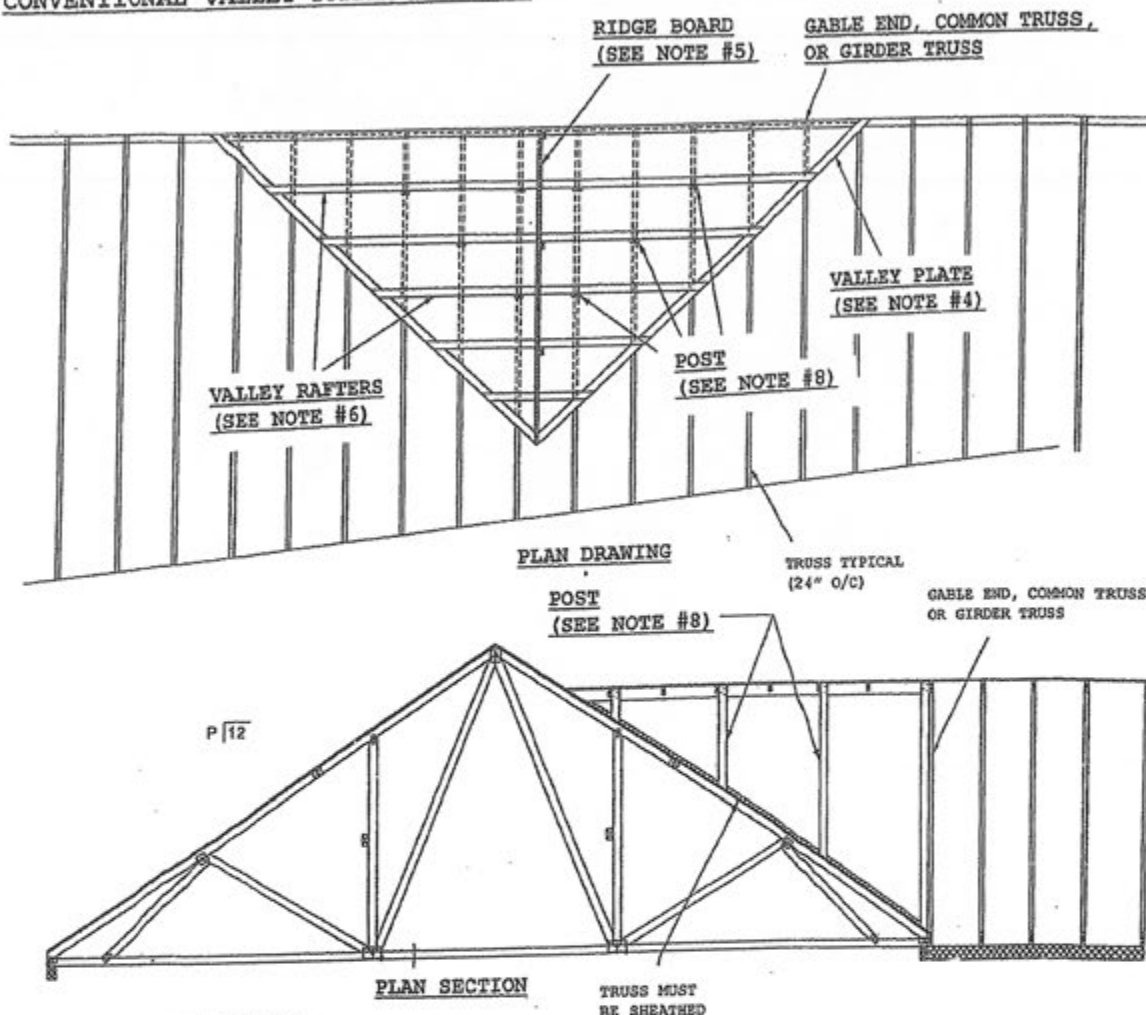
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and waste at joint locations are regulated by TPIC.
7. Design assumes trusses will be suitably protected from the environment in accord with TPIC.
8. Unless otherwise noted, moisture content of lumber shall not exceed 15% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with TPIC Quality Criteria.

# MICRO CITY ENGINEERING SERVICES INC.

TEL: (519) 287 - 2242

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

## CONVENTIONAL VALLEY FRAMING DETAIL



### GENERAL SPECIFICATIONS:

- (1) WITH THE BASE TRUSSES ERECTED (INSTALLED), APPLY SHEATHING TOP CHORD OF SUPPORTING (BASE) TRUSSES.
- (2) BRACE BOTTOM CHORD AND WEB MEMBERS AS PER PRE-ENGINEERED TRUSS DESIGNS.
- (3) DEFINE VALLEY RIDGE BY RUNNING A LEVEL STRING FROM THE INTERSECTING RIDGE OF THE (a) GABLE END, (b) GIRDER TRUSS OR (c) COMMON TRUSS TO THE ROOF SHEATHING.
- (4) INSTALL 2 X 6 VALLEY PLATES ON FLAT. FASTEN TO EACH SUPPORTING TRUSS WITH (2) 16d (3.5" X 0.131") NAILS.
- (5) SET A 2 X 6 #2 RIDGE BOARD (MAX. 10'-0" RIDGE) OR 2 X 8 #2 SPF RIDGE BOARD (MAX. 20'-0" RIDGE). SUPPORT RIDGE BOARD WITH 2 X 4 POSTS SPACED 48" O/C. REVEL BOTTOM OF POST TO SET EVENLY ON THE SHEATHING. FASTEN POST TO RIDGE WITH (4) 10d (3" X 0.131") NAILS. FASTEN POST TO ROOF SHEATHING WITH (3) 10d (3" X 0.131") TOE-NAILS.
- (6) FRAME VALLEY RAFTERS FROM VALLEY PLATE TO RIDGE BOARD. MAXIMUM RAFTER SPACING IS 24" O/C. FASTEN VALLEY RAFTER TO RIDGE BEAM WITH (3) 16d (3.5" X 0.131") TOE-NAILS. FASTEN VALLEY RAFTER TO VALLEY PLATE WITH (3) 16d (3.5" X 0.131") TOE-NAILS.
- (7) SUPPORT THE VALLEY RAFTERS WITH 2 X 4 POSTS AT 48" O/C (OR LESS) ALONG EACH RAFTER. INSTALL POSTS IN A STAGGERED PATTERN AS SHOWN ON PLAN DRAWING. ALIGN POSTS WITH TRUSSES BELOW. FASTEN VALLEY RAFTER TO POST WITH (4) 10d (3" X 0.131") NAILS. FASTEN POST THROUGH SHEATHING TO SUPPORTING TRUSSES WITH (2) 16d (3.5" X 0.131") NAILS.
- (8) POSTS SHALL BE 2 X 4 #2 SPF OR BETTER. POSTS EXCEEDING 75" IN HEIGHT SHALL BE INCREASED TO 4 X 4 #2 SPF, OR BETTER, OR BE PRE-ASSEMBLED TWO (2) PLY 2 X 4 #2 SPF OR BETTER FASTENED TOGETHER WITH 2 ROWS OF 10d (3" X 0.131") NAILS AT 6" O/C.
- (9) MAINTAIN A MINIMUM 3/4" LUMBER EDGE DISTANCE WHEN NAILING. NAIL SPACING SHOULD APPROXIMATE A MINIMUM 1-3/4" O/C OR MORE UNLESS NOTED OTHERWISE. ALL CONSTRUCTION TO CONFORM TO ONTARIO BUILDING CODE (CURRENT ADDITION) AT ALL TIMES.

### NOTES:

- (10) 48" O/C (MAXIMUM POST SPACING).
- (11) ROOF LIVE LOAD = 34.8 PSF (MAX.).
- (12) ROOF DEAD LOAD = 10.0 PSF (MAX.).
- (13) PART 9 APPLICATION ONLY (ONTARIO BUILDING CODE)
- (14) PART 4 APPLICATION ONLY (ONTARIO BUILDING CODE) WITH APPROVED REVIEW BY LICENSED PROFESSIONAL ENGINEER.
- (15) BASE TRUSS SPACING (24" O/C MAX.).
- (16) ALL PRE-ENGINEERED BASE TRUSS COMPONENTS TO BE SEALED BY LICENSED PROFESSIONAL ENGINEER AND THIS DETAIL TO BE VERIFIED AND APPROVED BY SAME WHEN RIDGE BOARD LENGTH EXCEEDS 12'-0".
- (17) ALL BASE TRUSSES: F = 4 (4/12) - MINIMUM.
- (18) ALL VALLEY RAFTERS: F = 4 (4/12) - MINIMUM.



DWG NO T&M 6305.14  
STRUCTURAL  
COMPONENT ONLY

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

RR #1, Po Box 61  
Glencoe, Ontario  
N0L 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 MII-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.tpic.ca](http://www.tpic.ca) and BCSI Building Component Safety Information available from the Truss Plate Institute, 781 N. Lee Street, Suite 312, Alexandria, VA, 22314.